



# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

**Unique Application Number**

MPCB-ENVIRONMENT\_STATEMENT-0000037546

**Submitted Date**

28-09-2021

## PART A

### Company Information

**Company Name**

Western Coalfields Limited

**Application UAN number**

9401

**Address**

Ballarpur Opencast Mine, Ballarpur Area, WCL

**Plot no**

284 285 286 287 288 289 290

**Taluka**

Ballarpur

**Village**

-

**Capital Investment (In lakhs)**

2500

**Scale**

L.S.I

**City**

Chandrapur

**Pincode**

442706

**Person Name**

Rajesh Kumar Mishra

**Designation**

Sub Area Manager

**Telephone Number**

8275968299

**Fax Number**

07173230076

**Email**

envbocm@gmail.com

**Region**

SRO-Chandrapur

**Industry Category**

Red

**Industry Type**

R35 Mining and ore beneficiation

**Last Environmental statement submitted online**

yes

**Consent Number**

BO/JD(APC)/TB-2, UAN no. 9401  
R/CC/1806000238

**Consent Issue Date**

05/06/2018

**Consent Valid Upto**

30/06/2021

**Establishment Year**

1979

**Date of last environment statement submitted**

Sep 19 2020 12:00:00:000AM

**Industry Category Primary (STC Code) & Secondary (STC Code)**

### Product Information

**Product Name**

Coal

**Consent Quantity**

0.625

**Actual Quantity**

0.225

**UOM**

MT/A

### By-product Information

**By Product Name**

-

**Consent Quantity**

0

**Actual Quantity**

0

**UOM**

MT/A

## Part-B (Water & Raw Material Consumption)

### 1) Water Consumption in m3/day

<b>Water Consumption for Process</b>	<b>Consent Quantity in m3/day</b>	<b>Actual Quantity in m3/day</b>
	460.00	460.00
<b>Cooling</b>	0.00	0.00
<b>Domestic</b>	180.00	160.00
<b>All others</b>	0.00	0.00
<b>Total</b>	640.00	620.00

## **2) Effluent Generation in CMD / MLD**

<b>Particulars</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Trade effluent	1391.5	472	CMD

## **2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)**

<b>Name of Products (Production)</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
coal (CUBIC METER/TONNE)	0.268	0.746	CMD

## **3) Raw Material Consumption (Consumption of raw material per unit of product)**

<b>Name of Raw Materials</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
EXPLOSIVES (KG/Tonne)	0.195	0.448	

## **4) Fuel Consumption**

<b>Fuel Name</b>	<b>Consent quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Diesel	0	594	KL/A

## **Part-C**

### **Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)**

#### **[A] Water**

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day) Quantity</b>	<b>Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration</b>	<b>Percentage of variation from prescribed standards with reasons %variation</b>	<b>Standard</b>	<b>Reason</b>
Report attached in Part I	0	0	-	-	-

#### **[B] Air (Stack)**

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day) Quantity</b>	<b>Concentration of Pollutants discharged(Mg/NM3) Concentration</b>	<b>Percentage of variation from prescribed standards with reasons %variation</b>	<b>Standard</b>	<b>Reason</b>
NO stack monitoring	0	0	-	-	-

## **Part-D**

### **HAZARDOUS WASTES**

#### **1) From Process**

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
5.2 Wastes or residues containing oil	0	0	Ton/Y

#### **2) From Pollution Control Facilities**

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
35.3 Chemical sludge from waste water treatment	5.0	5.72	Ton/Y

## Part-E

### SOLID WASTES

#### 1) From Process

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
Overburden	112000	140000	M3/Anum

#### 2) From Pollution Control Facilities

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
-	0	0	CMD

#### 3) Quantity Recycled or Re-utilized within the unit

<b>Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
0	0	0	CMD

## Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

#### 1) Hazardous Waste

<b>Type of Hazardous Waste Generated</b>	<b>Qty of Hazardous Waste</b>	<b>UOM</b>	<b>Concentration of Hazardous Waste</b>
0	0	KL/A	-

#### 2) Solid Waste

<b>Type of Solid Waste Generated</b>	<b>Qty of Solid Waste</b>	<b>UOM</b>	<b>Concentration of Solid Waste</b>
Overburden	140000	M3/Anum	-

## Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

<b>Description</b>	<b>Reduction in Water Consumption (M3/day)</b>	<b>Reduction in Fuel &amp; Solvent Consumption (KL/day)</b>	<b>Reduction in Raw Material (Kg)</b>	<b>Reduction in Power Consumption (KWH)</b>	<b>Capital Investment(in Lacs)</b>	<b>Reduction in Maintenance(in Lacs)</b>
Impact of the pollution Control measures	0	0.49	21000	-23000	2	0

## Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.

#### [A] Investment made during the period of Environmental Statement

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
Capital Expenditure	For new sedimentation tank	2

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**[B] Investment Proposed for next Year**

<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
For New Sedimentation tank and ETP	environmental protection abatement of pollution, prevention of pollution	13

**Part-I**

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**Any other particulars for improving the quality of the environment.**

**Particulars**

-

**Name & Designation**

Sub Area Manager

**UAN No:**

MPCB-ENVIRONMENT\_STATEMENT-0000037546

**Submitted On:**

28-09-2021





# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000037498

### Submitted Date

28-09-2021

## PART A

### Company Information

#### Company Name

Ballarpur Colliery 3 & 4 pits

#### Application UAN number

09399

#### Address

Ballarpur Colliery 3 & 4 pit , Ballarpur Area, WCL

#### Plot no

168 206 207 208 209 268 278 280 282 283 116  
117 94

#### Taluka

Ballarpur

#### Village

Ballarpur

#### Capital Investment (In lakhs)

3897

#### Scale

L.S.I

#### City

Chandrapur

#### Pincode

442701

#### Person Name

Rajesh Kumar Mishra

#### Designation

Sub Area Manager

#### Telephone Number

8275968299

#### Fax Number

#### Email

envbc34@gmail.com

#### Region

SRO-Chandrapur

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

BO/JD(APC)/UAN No.  
09399/R/CC-1706000438

#### Consent Issue Date

08/06/2017

#### Consent Valid Upto

30/06/2021

#### Establishment Year

1968

#### Date of last environment statement submitted

Sep 19 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

### Product Information

#### Product Name

Coal

#### Consent Quantity

0.60

#### Actual Quantity

0.107

#### UOM

MT/A

### By-product Information

#### By Product Name

-

#### Consent Quantity

0

#### Actual Quantity

0

#### UOM

MT/A

## Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
	42.00	42.00
Cooling	0.00	0.00
Domestic	1500.00	1500.00
All others	0.00	0.00
Total	1542.00	1542.00

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Daily trade effluent	2900	1297	CMD

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
coal (CUBIC METER/TONNE)	0.152	0.143	CMD

3) Raw Material Consumption (Consumption of raw material per unit of product)

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
EXPLOSIVES (KG/TONNE)	0.376	0.261	

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
-	0	5	KL/A

Part-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

[A] Water

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
WATER REPORT ATTACHED IN PART I	0	0	-	-	-

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/NM3) Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
NO AIR STACK MONITORING	0	0	-	-	-

Part-D

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.1 Used or spent oil	0	0	KL/A

## 2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
34.2 Sludge from treatment of waste water arising out of cleaning / disposal of barrels / containers	0	0	Ton/Y

## Part-E

### SOLID WASTES

#### 1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
OVERBURDEN	0	0	M3/Anum

#### 2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
-	0	0	M3/Anum

#### 3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	M3/Anum

## Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

#### 1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
0	0	KL/A	0

#### 2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
-	0	M3/Anum	0

## Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Impact of the pollution Control measures	0	0	10000	-70000	0	0

## Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.

#### [A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
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**[B] Investment Proposed for next Year**

<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
Fogging machine for Railway siding	-	7

**Part-I**

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**Any other particulars for improving the quality of the environment.****Particulars**

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**Name & Designation**

Sub Area Manager

**UAN No:**

MPCB-ENVIRONMENT\_STATEMENT-0000037498

**Submitted On:**

28-09-2021



# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000037759

### Submitted Date

28-09-2021

## PART A

### Company Information

#### Company Name

Western Coal Fields Ltd Gouri Deep Opencast Mine

#### Application UAN number

-

#### Address

Plot no: 62 110 189 of antargaon, 165 141 of goyegaon etc, Gouri Deep Opencast Mine, WCL, Ballarpur Area, Taluka: Rajura, Dist: Chandrapur: 442706

#### Plot no

62 110 189 of antargaon, 165 141 of goyegaon

#### Taluka

Rajura

#### Village

-

#### Capital Investment (In lakhs)

8621

#### Scale

LSI

#### City

Chandrapur

#### Pincode

442706

#### Person Name

GVS Prasad

#### Designation

SUB AREA MANAGER

#### Telephone Number

9552265303

#### Fax Number

07173230076

#### Email

envgourideep@gmail.com

#### Region

SRO-Chandrapur

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

Format1.0/CAC/UAN no.  
0000088109/CR-2009000280

#### Consent Issue Date

07.09.2020

#### Consent Valid Upto

31.03.2021

#### Establishment Year

2012

#### Date of last environment statement submitted

Sep 19 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

### Product Information

#### Product Name

COAL

#### Consent Quantity

0.60

#### Actual Quantity

0.536

#### UOM

MT/A

### By-product Information

#### By Product Name

NA

#### Consent Quantity

0

#### Actual Quantity

0

#### UOM

CMD

Part-B (Water & Raw Material Consumption)

<u>1) Water Consumption in m3/day</u>			
Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day	
	222.00	222.00	
Cooling	0.00	0.00	
Domestic	10.00	10.00	
All others	170.00	170.00	
Total	402.00	402.00	

<u>2) Effluent Generation in CMD / MLD</u>			
Particulars	Consent Quantity	Actual Quantity	UOM
daily trade effluent	1237	1237	CMD
Domestic effluent	6	6	CMD

<u>2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)</u>			
Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
coal (CUBIC METER/TONNE)	0.135	0.151	CMD

<u>3) Raw Material Consumption (Consumption of raw material per unit of product)</u>			
Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
EXPLOSIVES (KG/TONNE)	0.81	1.16	

<u>4) Fuel Consumption</u>			
Fuel Name	Consent quantity	Actual Quantity	UOM
Diesel	0	3340	KL/A

Part-C

<u>Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)</u>					
<u>[A] Water</u>					
Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour	Percentage of variation from prescribed standards with reasons	Standard	Reason
	Quantity	Concentration	%variation		
WATER REPORT ATTACHED IN PART I	0	0	-	-	-
<u>[B] Air (Stack)</u>					
Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/NM3)	Percentage of variation from prescribed standards with reasons	Standard	Reason
	Quantity	Concentration	%variation		
NO AIR STACK MONITORING	0	0	-	-	-

Part-D

HAZARDOUS WASTES

**1) From Process**

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
5.2 Wastes or residues containing oil	1.5	0	Ton/Y
5.1 Used or spent oil	0	0	Ton/Y

**2) From Pollution Control Facilities**

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
35.3 Chemical sludge from waste water treatment	2.0	2	Ton/Y

**Part-E****SOLID WASTES****1) From Process**

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
OVERBURDEN	1418000	3484000	M3/Anum

**2) From Pollution Control Facilities**

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
-	0	0	CMD

**3) Quantity Recycled or Re-utilized within the unit**

<b>Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
0	0	0	CMD

**Part-F**

**Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.**

**1) Hazardous Waste**

<b>Type of Hazardous Waste Generated</b>	<b>Qty of Hazardous Waste</b>	<b>UOM</b>	<b>Concentration of Hazardous Waste</b>
0	0	KL/A	-

**2) Solid Waste**

<b>Type of Solid Waste Generated</b>	<b>Qty of Solid Waste</b>	<b>UOM</b>	<b>Concentration of Solid Waste</b>
OVERBURDEN	3484000	M3/Anum	-

**Part-G**

**Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.**

<b>Description</b>	<b>Reduction in Water Consumption (M3/day)</b>	<b>Reduction in Fuel &amp; Solvent Consumption (KL/day)</b>	<b>Reduction in Raw Material (Kg)</b>	<b>Reduction in Power Consumption (KWH)</b>	<b>Capital Investment(in Lacs)</b>	<b>Reduction in Maintenance(in Lacs)</b>
Impact of the pollution Control measures	50	-2.561	-136000	-257000	0	0

**Part-H**

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**Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.**

**[A] Investment made during the period of Environmental Statement**

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
CAPITAL EXPENDITURE	VARIOUS AIR, WATER AND NOISE CONTROL MEASURES INCLUDING CESS.	0

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**[B] Investment Proposed for next Year**

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
CAPITAL INVESTMENT	VARIOUS AIR, WATER AND NOISE CONTROL MEASURES	0

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**Part-I**

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**Any other particulars for improving the quality of the environment.**

**Particulars**

-

**Name & Designation**

GVS . Prasad, SUB AREA MANAGER

**UAN No:**

MPCB-ENVIRONMENT\_STATEMENT-0000037759

**Submitted On:**

28-09-2021





# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000037737

### Submitted Date

28-09-2021

## PART A

### Company Information

#### Company Name

Western Coal Fields Ltd Gouri I & II Opencast Mine

#### Application UAN number

-

#### Address

Gouri I & II Opencast Mine, WCL, Ballarpur Area,  
PO: Gouri Taluka: Rajura, Dist: Chandrapur -  
442706

#### Plot no

-

#### Taluka

Rajura

#### Village

-

#### Capital Investment (In lakhs)

13131.42

#### Scale

LSI

#### City

Chandrapur

#### Pincode

442706

#### Person Name

GVS Prasad

#### Designation

Sub Area Manager

#### Telephone Number

9552265303

#### Fax Number

07173230076

#### Email

envgouri12@gmail.com

#### Region

SRO-Chandrapur

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

Format1.0/CAC/UAN No.  
0000088021/CR-2009000279

#### Consent Issue Date

2020-09-07

#### Consent Valid Upto

31.03.2021

#### Establishment Year

2011

#### Date of last environment statement submitted

Sep 19 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

### Product Information

#### Product Name

COAL

#### Consent Quantity

0.8

#### Actual Quantity

0.76

#### UOM

MT/A

### By-product Information

#### By Product Name

NA

#### Consent Quantity

0

#### Actual Quantity

0

#### UOM

CMD

## Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
	674.00	674.00
Cooling	0.00	0.00
Domestic	8.00	8.00
All others	150.00	0.00
Total	832.00	682.00

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
daily trade effluent	753	628.4	CMD

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
coal (CUBIC METER/TONNE)	0.392	0.324	CMD

3) Raw Material Consumption (Consumption of raw material per unit of product)

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
EXPLOSIVES (KG/TONNE)	3.065	1.255	

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
Diesel	0	2077	KL/A

Part-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

[A] Water

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
WATER REPORT ATTACHED IN PART I	0	0	-	-	-

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/NM3) Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
NO AIR STACK MONITORING	0	0	-	-	-

Part-D

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.1 Used or spent oil	2	24.78	KL/A

5.2 Wastes or residues containing oil	1.0	3.05	Ton/Y
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<u>2) From Pollution Control Facilities</u>			
Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
35.3 Chemical sludge from waste water treatment	8.0	3	Ton/Y

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
OVERBURDEN	3934000	1677000	M3/Anum

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
-	0	0	CMD

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	CMD

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
5.1 Used or spent oil	0	Ton/Y	-
5.2 Wastes or residues containing oil	3.05	Ton/Y	-

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
OVERBURDEN	1677000	M3/Anum	-

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Impact of the pollution Control measures	0	5.60	968000	-1122000	0	0

Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.

**[A] Investment made during the period of Environmental Statement**

<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
CAPITAL EXPENDITURE	FOR VARIOUS AIR, WATER AND NOISE CONTROL MEASURES INCLUDING CESS.	0

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**[B] Investment Proposed for next Year**

<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
CAPITAL INVESTMENT	FOR VARIOUS AIR, WATER AND NOISE CONTROL MEASURES	0

**Part-I**

---

**Any other particulars for improving the quality of the environment.**

**Particulars**

-

**Name & Designation**

GVS Prasad, SUB AREA MANAGER

**UAN No:**

MPCB-ENVIRONMENT\_STATEMENT-0000037737

**Submitted On:**

28-09-2021



# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

**Unique Application Number**

MPCB-ENVIRONMENT\_STATEMENT-0000037776

**Submitted Date**

28-09-2021

## PART A

### Company Information

**Company Name**

Western Coalfields Limited Pauni II Expansion  
OC

**Application UAN number**

-

**Address**

Pauni II Expansion OC mine, WCL Ballarpur  
Area, Rajura, Chandrapur

**Plot no**

-

**Taluka**

Rajura

**Village**

Sakhari

**Capital Investment (In lakhs)**

16882.53

**Scale**

L.S.I

**City**

Chandrapur

**Pincode**

442706

**Person Name**

J.Eakambaram

**Designation**

Sub Area Manager

**Telephone Number**

7767988059

**Fax Number**

07173230076

**Email**

envpouni2@gmail.com

**Region**

SRO-Chandrapur

**Industry Category**

Red

**Industry Type**

R35 Mining and ore beneficiation

**Last Environmental statement submitted  
online**

yes

**Consent Number**

Format1.0/CAC/UAN no.  
0000088011/CR-2009000032

**Consent Issue Date**

02/09/2020

**Consent Valid Upto**

31/03/2021

**Establishment Year**

2016

**Date of last environment statement  
submitted**

Sep 19 2020 12:00:00:000AM

**Industry Category Primary (STC Code) &  
Secondary (STC Code)**

### Product Information

**Product Name**

Coal

**Consent Quantity**

3.25

**Actual Quantity**

2.8

**UOM**

MT/A

### By-product Information

**By Product Name**

-

**Consent Quantity**

0

**Actual Quantity**

0

**UOM**

MT/A

## Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
	347.00	347.00
Cooling	0.00	0.00
Domestic	20.00	20.00
All others	210.00	210.00
Total	577.00	577.00

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Trade effluent	454	104	CMD
Domestic Trade effluent	16	16	CMD

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
coal (CUBIC METER/TONNE)	0.060	0.045	CMD

3) Raw Material Consumption (Consumption of raw material per unit of product)

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
EXPLOSIVES (KG/TONNE)	0.505	1.81	

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
Diesel	0	299	KL/A

Part-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

[A] Water

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
Report attached in Part I	0	0	-	-	-

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/NM3) Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
NO stack monitoring	0	0	-	-	-

Part-D

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
----------------------	--------------------------------------	-------------------------------------	-----

5.1 Used or spent oil	0	0	KL/A
5.2 Wastes or residues containing oil	0	0	KL/A

## 2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
35.3 Chemical sludge from waste water treatment	0	7.94	Ton/Y

## Part-E

### SOLID WASTES

#### 1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Overburden	6469000	15565000	M3/Anum

#### 2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
-	0	0	CMD

#### 3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	CMD

## Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

#### 1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
0	0	KL/A	-

#### 2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Overburden	15565000	M3/Anum	-

## Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Impact of the pollution Control measures	0	-0.21	-4013000	-463000	0	0

## Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.

**[A] Investment made during the period of Environmental Statement**

<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
Capital Expenditure	environmental protection abatement of pollution, prevention of pollution	0

**[B] Investment Proposed for next Year**

<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
Capital Investment	environmental protection abatement of pollution, prevention of pollution	65.00

**Part-I**

**Any other particulars for improving the quality of the environment.**

**Particulars**

-

**Name & Designation**

J.Eakambaram, Sub Area Manager

**UAN No:**

MPCB-ENVIRONMENT\_STATEMENT-0000037776

**Submitted On:**

28-09-2021





# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000037799

### Submitted Date

28-09-2021

## PART A

### Company Information

#### Company Name

Western Coal Fields Ltd Pouni Opencast Mine

#### Application UAN number

88154

#### Address

Plot no: 134 150 181 212/1 etc, Pouni Opencast Mine, WCL, Ballarpur Area, Taluka: Rajura, Dist: Chandrapur - 442706

#### Plot no

134 150 181 212/1 etc

#### Taluka

Rajura

#### Village

-

#### Capital Investment (In lakhs)

9615.3

#### Scale

LSI

#### City

Chandrapur

#### Pincode

442706

#### Person Name

GVS Prasad

#### Designation

Sub Area Manager

#### Telephone Number

9552265303

#### Fax Number

07173230076

#### Email

envpouni@gmail.com

#### Region

SRO-Chandrapur

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

Format1.0/CAC/UAN no.  
0000088154/CR-2009000031

#### Consent Issue Date

02/09/2020

#### Consent Valid Upto

31/03/2021

#### Establishment Year

1998

#### Date of last environment statement submitted

Sep 19 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

### Product Information

#### Product Name

COAL

#### Consent Quantity

0.9

#### Actual Quantity

0.43

#### UOM

MT/A

### By-product Information

#### By Product Name

NA

#### Consent Quantity

0

#### Actual Quantity

0

#### UOM

CMD

## Part-B (Water & Raw Material Consumption)

**1) Water Consumption in m3/day**

<b>Water Consumption for Process</b>	<b>Consent Quantity in m3/day</b>	<b>Actual Quantity in m3/day</b>
	1170.00	318.00
<b>Cooling</b>	0.00	0.00
<b>Domestic</b>	16.00	16.00
<b>All others</b>	90.00	0.00
<b>Total</b>	1276.00	334.00

**2) Effluent Generation in CMD / MLD**

<b>Particulars</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
daily trade effluent	967	892	CMD
domestic trade effluent	5	5	CMD

**2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)**

<b>Name of Products (Production)</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
coal (CUBIC METER/TONNE)	0.141	0.283	CMD

**3) Raw Material Consumption (Consumption of raw material per unit of product)**

<b>Name of Raw Materials</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
EXPLOSIVES (KG/TONNE)	1.375	1.605	

**4) Fuel Consumption**

<b>Fuel Name</b>	<b>Consent quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Diesel	0	2812	KL/A

**Part-C**

**Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)**

**[A] Water**

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day) Quantity</b>	<b>Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration</b>	<b>Percentage of variation from prescribed standards with reasons %variation</b>	<b>Standard</b>	<b>Reason</b>
WATER REPORT ATTACHED	0	0	-	--	-

**[B] Air (Stack)**

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day) Quantity</b>	<b>Concentration of Pollutants discharged(Mg/NM3) Concentration</b>	<b>Percentage of variation from prescribed standards with reasons %variation</b>	<b>Standard</b>	<b>Reason</b>
NO AIR STACK MONITORING	0	0	--	-	-

**Part-D**

**HAZARDOUS WASTES**

**1) From Process**

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
-----------------------------	---	--	------------

5.1 Used or spent oil	6	18	KL/A
5.2 Wastes or residues containing oil	2	0	Ton/Y

## 2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
35.3 Chemical sludge from waste water treatment	7	7.87	Ton/Y

## Part-E

### SOLID WASTES

#### 1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
OVERBURDEN	2583000	1988000	M3/Anum

#### 2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
-	0	0	CMD

#### 3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	CMD

## Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

#### 1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
5.2 Wastes or residues containing oil	0	Ton/Y	-
35.3 Chemical sludge from waste water treatment	7.87	Ton/Y	-

#### 2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
overburden	1988000	M3/Anum	onsite captive landfill

## Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Impact of the pollution Control measures	0	-0.0877	494000	-2498000	0	0

## Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.

[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
-	-	0

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
-	-	0

Part-I

Any other particulars for improving the quality of the environment.

Particulars

-

Name & Designation  
GVS Prasad, Sub area Manager

UAN No:  
MPCB-ENVIRONMENT\_STATEMENT-0000037799

Submitted On:  
28-09-2021



# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000037571

### Submitted Date

28-09-2021

## PART A

### Company Information

#### Company Name

Western Coal Fields Ltd Sasti Opencast Mine

#### Application UAN number

88081

#### Address

Sasti Opencast Mine, WCL, Ballarpur Area,  
Taluka: Rajura, Dist: Chandrapur - 442706

#### Plot no

-

#### Taluka

Rajura

#### Village

-

#### Capital Investment (In lakhs)

25797.6

#### Scale

LSI

#### City

Chandrapur

#### Pincode

442706

#### Person Name

Jitendra Tiwari

#### Designation

Sub Area Manager

#### Telephone Number

8275968348

#### Fax Number

07173230076

#### Email

envsocm@gmail.com

#### Region

SRO-Chandrapur

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

Format1.0/CAC/UAN no.  
0000088081/CR-2009000281

#### Consent Issue Date

07/09/2020

#### Consent Valid Upto

31/03/2021

#### Establishment Year

1985

#### Date of last environment statement submitted

Sep 19 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

### Product Information

#### Product Name

COAL

#### Consent Quantity

2.0

#### Actual Quantity

1.79

#### UOM

MT/A

### By-product Information

#### By Product Name

-

#### Consent Quantity

0

#### Actual Quantity

0

#### UOM

MT/A

## Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
	566	566
Cooling	0	0
Domestic	40	40
All others	210	0
Total	816	606

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
TRADE EFFLUENT	6604	6454.608	CMD
DOMESTIC EFFLUENT	20	20	CMD

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
COAL	0.122	0.115	CMD

3) Raw Material Consumption (Consumption of raw material per unit of product)

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
EXPLOSIVE	3.83	3.06	

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
Diesel	0	4383	KL/A

Part-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

[A] Water

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
WATER REPORT ATTACHED IN PART I	0	0	-	-	-

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/NM3) Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
-	0	0	-	-	NO STACK EMISSION

Part-D

HAZARDOUS WASTES

1) From Process

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
5.1 Used or spent oil	10	38.43	KL/A
5.2 Wastes or residues containing oil	2	7.16	Ton/Y

## **2) From Pollution Control Facilities**

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
35.3 Chemical sludge from waste water treatment	17	35.46	Ton/Y

## **Part-E**

### **SOLID WASTES**

#### **1) From Process**

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
OVERBURDEN	12480000	10451000	M3/Anum

#### **2) From Pollution Control Facilities**

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
-	0	0	Ton/Y

#### **3) Quantity Recycled or Re-utilized within the unit**

<b>Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
0	0	0	Kg
0	0	0	Kg

## **Part-F**

**Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.**

#### **1) Hazardous Waste**

<b>Type of Hazardous Waste Generated</b>	<b>Qty of Hazardous Waste</b>	<b>UOM</b>	<b>Concentration of Hazardous Waste</b>
5.2 Wastes or residues containing oil	7.16	Ton/Y	-
35.3 Chemical sludge from waste water treatment	35.46	Ton/Y	-

#### **2) Solid Waste**

<b>Type of Solid Waste Generated</b>	<b>Qty of Solid Waste</b>	<b>UOM</b>	<b>Concentration of Solid Waste</b>
-	0	Ton/Y	-

## **Part-G**

**Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.**

<b>Description</b>	<b>Reduction in Water Consumption (M3/day)</b>	<b>Reduction in Fuel &amp; Solvent Consumption (KL/day)</b>	<b>Reduction in Raw Material (Kg)</b>	<b>Reduction in Power Consumption (KWH)</b>	<b>Capital Investment(in Lacs)</b>	<b>Reduction in Maintenance(in Lacs)</b>
IN COMPARISION TO PREVIOUS FINANCIAL YEAR	0	0.142	991000	-1128000	0	0

Part-H

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<u>Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.</u>		
<u>[A] Investment made during the period of Environmental Statement</u>		
<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
-	-	0

---

<u>[B] Investment Proposed for next Year</u>		
<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
Capital Investment	Mechanical road sweeping machine	40.0

Part-I

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Any other particulars for improving the quality of the environment.

Particulars

-

Name & Designation  
Sub Area Manager

UAN No:  
MPCB-ENVIRONMENT\_STATEMENT-0000037571

Submitted On:  
28-09-2021





# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

**Unique Application Number**

MPCB-ENVIRONMENT\_STATEMENT-0000037528

**Submitted Date**

28-09-2021

## PART A

### Company Information

**Company Name**

Sasti Underground Mine

**Application UAN number**

88029

**Address**

Near Sasti Village on Rajura Ballarpur road

**Plot no**

140, 141, 142

**Taluka**

Rajura

**Village**

-

**Capital Investment (In lakhs)**

2896

**Scale**

LSI

**City**

Chandrapur

**Pincode**

442706

**Person Name**

Jitendra Tiwari

**Designation**

Sub Area Manager

**Telephone Number**

8275968348

**Fax Number**

07173230076

**Email**

envballarpur@gmail.com

**Region**

SRO-Chandrapur

**Industry Category**

Red

**Industry Type**

R35 Mining and ore beneficiation

**Last Environmental statement submitted online**

yes

**Consent Number**

BO/JD(APC)/UAN no 01004/R/CC/  
1709000970

**Consent Issue Date**

2020-12-31

**Consent Valid Upto**

2021-03-31

**Establishment Year**

1916

**Date of last environment statement submitted**

Sep 19 2020 12:00:00:000AM

**Industry Category Primary (STC Code) & Secondary (STC Code)**

### Product Information

**Product Name**

COAL

**Consent Quantity**

0.36

**Actual Quantity**

0.076

**UOM**

MT/A

### By-product Information

**By Product Name**

-

**Consent Quantity**

0

**Actual Quantity**

0

**UOM**

MT/A

## Part-B (Water & Raw Material Consumption)

### 1) Water Consumption in m3/day

<b>Water Consumption for Process</b>	<b>Consent Quantity in m3/day</b>	<b>Actual Quantity in m3/day</b>
	2253.00	2253.00
<b>Cooling</b>	0.00	0.00
<b>Domestic</b>	1071.00	1071.00
<b>All others</b>	0.00	0.00
<b>Total</b>	3324.00	3324.00

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
TRADE EFFLUENT	0	0	CMD

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
COAL	7.68	10.82	CMD

3) Raw Material Consumption (Consumption of raw material per unit of product)

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
EXPLOSIVE	42000	32000	Kg/Annum

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
HSD	0	4000	Ltr/A

Part-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

[A] Water

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
-	0	0	-	-	NO TRADE EFFLUENT

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/NM3) Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
-	0	0	-	-	NO STACK EMISSION

Part-D

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.1 Used or spent oil	0	0	

35.3 Chemical sludge from waste water treatment	0	0
---	---	---

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
35.3 Chemical sludge from waste water treatment	0	0	Ton/Y

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
OVERBURDEN	0	0	CMD

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
-	0	0	Ton/Y

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	Kg
0	0	0	Kg

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
0	0	Ton/Y	0

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
-	0	Ton/Y	-

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
IN COMPARISION TO PREVIOUS FINANCIAL YEAR	0	0.0082	10000	-1450000	0	0

Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.

[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
-	-	0

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
-	-	0

Part-I

Any other particulars for improving the quality of the environment.

Particulars

-

Name & Designation  
Jitendra Tiwari, Sub Area Manager

UAN No:  
MPCB-ENVIRONMENT\_STATEMENT-0000037528

Submitted On:  
28-09-2021



# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000033502

### Submitted Date

20-07-2021

## PART A

### Company Information

#### Company Name

M/s. Western Coalfields Limited, Bhatadi Opencast Mine

#### Application UAN number

MPCB-CONSENT-0000088190

#### Address

POST-BHATADI

#### Plot no

Document uploaded

#### Taluka

Chandrapur

#### Village

Bhatadi Village

#### Capital Investment (In lakhs)

26925.84

#### Scale

L.S.I

#### City

Chandrapur

#### Pincode

442404

#### Person Name

Shri. Devendra Prasad

#### Designation

Sub Area Manager

#### Telephone Number

07172-220363

#### Fax Number

-

#### Email

wclchaenv@gmail.com

#### Region

SRO-Chandrapur

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

MPCB-CONSENT-0000088190

#### Consent Issue Date

08.05.2020

#### Consent Valid Upto

31.03.2021

#### Establishment Year

1995

#### Date of last environment statement submitted

Aug 28 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

-

### Product Information

#### Product Name

Coal

#### Consent Quantity

1.465

#### Actual Quantity

1.231

#### UOM

MT/A

### By-product Information

#### By Product Name

NA

#### Consent Quantity

-

#### Actual Quantity

-

#### UOM

MT/A

## Part-B (Water & Raw Material Consumption)

### 1) Water Consumption in m3/day

#### Water Consumption for

#### Consent Quantity in m3/day

#### Actual Quantity in m3/day

<b>Process</b>	500	500
<b>Cooling</b>	-	-
<b>Domestic</b>	65	65
<b>All others</b>	-	-
<b>Total</b>	565	565

## 2) Effluent Generation in CMD / MLD

<b>Particulars</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Daily Trade Effluent	9320	18245	CMD

## 2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

<b>Name of Products (Production)</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Mining	0.0997	0.148	CMD

## 3) Raw Material Consumption (Consumption of raw material per unit of product)

<b>Name of Raw Materials</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Explosive (Kg/Tonne)	0.910	2.33	

## 4) Fuel Consumption

<b>Fuel Name</b>	<b>Consent quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Diesel	-	4033.25	KL/A

## Part-C

### Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

#### [A] Water

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day) Quantity</b>	<b>Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration</b>	<b>Percentage of variation from prescribed standards with reasons %variation</b>	<b>Standard</b>	<b>Reason</b>
Monitoring Report Enclosed in Step-I	-	-	-	-	-

#### [B] Air (Stack)

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day) Quantity</b>	<b>Concentration of Pollutants discharged(Mg/NM3) Concentration</b>	<b>Percentage of variation from prescribed standards with reasons %variation</b>	<b>Standard</b>	<b>Reason</b>
No Stack Monitoring	-	-	-	-	-

## Part-D

### HAZARDOUS WASTES

#### 1) From Process

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
5.1 Used or spent oil	30.20	28.23	KL/A

#### 2) From Pollution Control Facilities

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
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5.2 Wastes or residues containing oil	5.80	1.04	Ton/Y
35.3 Chemical sludge from waste water treatment	42.85	23.22	Ton/Y

## Part-E

### SOLID WASTES

#### 1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Overburden	1153.24	29520.55	CMD

#### 2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
-	-	-	CMD

#### 3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.1 Used or spent oil	-	-	KL/A

## Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

#### 1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
5.1 Used or spent oil	28.23	KL/A	Auctioned to CPCB authorized recyclers
5.2 Wastes or residues containing oil	1.04	Ton/Y	Disposed by MEPL
35.3 Chemical sludge from waste water treatment	23.22	Ton/Y	Disposed by MEPL

#### 2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Overburden	29520.55	CMD	OB was stored as external OB Dump

## Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Impact of Pollution Control Measures	-100	0.032	-1540388	1758074	3.70	-

## Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.

#### [A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
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**[B] Investment Proposed for next Year**

<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
Capital Investment	Air & Water Pollution Control Measures	103.00

**Part-I**

---

**Any other particulars for improving the quality of the environment.****Particulars**

Attachments as asked

**Name & Designation**

Shri. Devendra Prasad, Sub Area Manager

**UAN No:**

MPCB-ENVIRONMENT\_STATEMENT-0000033502

**Submitted On:**

20-07-2021





# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000033425

### Submitted Date

17-07-2021

## PART A

### Company Information

#### Company Name

M/s Western Coalfields Ltd. Chanda Rayatwari Colliery

#### Application UAN number

MPCB-CONSENT-0000066146

#### Address

Post- Babupeth

#### Plot no

Document attached

#### Taluka

Chandrapur

#### Village

Rayatwari Area

#### Capital Investment (In lakhs)

1898.00

#### Scale

LSI

#### City

Chandrapur

#### Pincode

442401

#### Person Name

Shri. G. D. Khobragade

#### Designation

Colliery Manager

#### Telephone Number

8275967921

#### Fax Number

07172-255287

#### Email

crcchandrapur@gmail.com

#### Region

SRO-Chandrapur

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

BO/JD(APC)/UAN No. 66146/R/CC-1421 24.12.2019

#### Consent Issue Date

#### Consent Valid Upto

31.12.2020

#### Establishment Year

1954

#### Date of last environment statement submitted

May 19 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

-

### Product Information

#### Product Name

Coal

#### Consent Quantity

0.06

#### Actual Quantity

0.00

#### UOM

MT/A

### By-product Information

#### By Product Name

NA

#### Consent Quantity

-

#### Actual Quantity

-

#### UOM

MT/A

## Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
	170	100
Cooling	-	-
Domestic	185	170
All others	-	-
Total	355	270

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Daily Trade Effluent	0.00	50.00	CMD

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
Mining	0.00	0.00	CMD

3) Raw Material Consumption (Consumption of raw material per unit of product)

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
Explosive	0.00	0.00	Kg/Annum

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
Diesel	9.00	0.00	KL/A

Part-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

[A] Water

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
Water Report Attached in I	-	-	-	-	-

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/NM3) Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
No Stack Monitoring	-	-	-	-	-

Part-D

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	NA	NA	Ton/Y

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	NA	NA	Ton/Y

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	NA	NA	M3/Anum

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	NA	NA	Ton/Y

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	NA	NA	Ton/Y

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
0	NA	Ton/Y	NA

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
NA	NA	Ton/Y	NA

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Impact of Pollution Control Measures	0.00	0.00	0.00	3328	0.00	-

Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.  
[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Capital Investment	0.00	0.00

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**[B] Investment Proposed for next Year**

<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
Capital Investment	Air & Water Pollution Control Measures	8.02

**Part-I**

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**Any other particulars for improving the quality of the environment.**

**Particulars**

Attachments as asked

**Name & Designation**

Shri. G. D. Khobragade, Colliery Manager

**UAN No:**

MPCB-ENVIRONMENT\_STATEMENT-0000033425

**Submitted On:**

17-07-2021



# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000033505

### Submitted Date

20-07-2021

## PART A

### Company Information

#### Company Name

M/s. WESTERN COALFIELDS LIMITED, Durgapur  
Opencast Mine

#### Application UAN number

MPCB-CONSENT-0000066122

#### Address

POST-DURGAPUR

#### Plot no

Document uploaded

#### Taluka

Chandrapur

#### Village

Durgapur, WCL-Chandrapur Area

#### Capital Investment (In lakhs)

29685.88

#### Scale

L.S.I

#### City

Chandrapur

#### Pincode

442404

#### Person Name

Shri. Arun M. Lakhe

#### Designation

Sub Area Manager

#### Telephone Number

8275967702

#### Fax Number

-

#### Email

durgapurocwcl@gmail.com

#### Region

SRO-Chandrapur

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

MPCB-CONSENT-0000066122

#### Consent Issue Date

20.05.2020

#### Consent Valid Upto

31.03.2021

#### Establishment Year

1980

#### Date of last environment statement submitted

Jul 27 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

-

### Product Information

#### Product Name

Coal

#### Consent Quantity

3.00

#### Actual Quantity

1.74

#### UOM

MT/A

### By-product Information

#### By Product Name

NA

#### Consent Quantity

-

#### Actual Quantity

-

#### UOM

MT/A

## Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
	550	550
Cooling	-	-
Domestic	1500	1500
All others	-	-
Total	2050	2050

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Daily Trade Effluent	2690	2050	CMD

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
Mining	0.106	0.115	KL/A

3) Raw Material Consumption (Consumption of raw material per unit of product)

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
Explosives (Kg/Tonne)	1.65	2.68	

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
Diesel	-	4522.35	KL/A

Part-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

[A] Water

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
Monitoring Report Enclosed in Step-I	-	-	-	-	-

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/NM3) Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
No Stack Monitoring	-	-	-	-	-

Part-D

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.1 Used or spent oil	37.17	41.58	KL/A

**2) From Pollution Control Facilities**

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
5.2 Wastes or residues containing oil	6.20	5.90	Ton/Y
35.3 Chemical sludge from waste water treatment	32.60	28.06	Ton/Y

**Part-E****SOLID WASTES****1) From Process**

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
Overburden	15972.60	26712.33	CMD

**2) From Pollution Control Facilities**

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
-	-	-	CMD

**3) Quantity Recycled or Re-utilized within the unit**

<b>Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
5.1 Used or spent oil	-	-	CMD

**Part-F**

**Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.**

**1) Hazardous Waste**

<b>Type of Hazardous Waste Generated</b>	<b>Qty of Hazardous Waste</b>	<b>UOM</b>	<b>Concentration of Hazardous Waste</b>
5.1 Used or spent oil	41.58	KL/A	Auctioned to CPCB authorized recyclers
5.2 Wastes or residues containing oil	5.90	Ton/Y	Disposed off via MEPL to CHWTSDF
35.3 Chemical sludge from waste water treatment	28.06	Ton/Y	Disposed off via MEPL to CHWTSDF

**2) Solid Waste**

<b>Type of Solid Waste Generated</b>	<b>Qty of Solid Waste</b>	<b>UOM</b>	<b>Concentration of Solid Waste</b>
Overburden	26712.33	CMD	OB Stacked as external dump

**Part-G**

**Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.**

<b>Description</b>	<b>Reduction in Water Consumption (M3/day)</b>	<b>Reduction in Fuel &amp; Solvent Consumption (KL/day)</b>	<b>Reduction in Raw Material (Kg)</b>	<b>Reduction in Power Consumption (KWH)</b>	<b>Capital Investment(in Lacs)</b>	<b>Reduction in Maintenance(in Lacs)</b>
Impact of Pollution Control Measures	0.00	-1.2	-1542207	7658167	14.15	-

**Part-H**

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**Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.**

**[A] Investment made during the period of Environmental Statement**

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
Capital Investment	Air Pollution Control Measures	14.15

---

**[B] Investment Proposed for next Year**

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
Capital Investment	Air & Water Pollution Control Measures	96.00

**Part-I**

---

**Any other particulars for improving the quality of the environment.**

**Particulars**

Documents as asked

**Name & Designation**

Shri. Arun M. Lakhe, Sub Area Manager

**UAN No:**

MPCB-ENVIRONMENT\_STATEMENT-0000033505

**Submitted On:**

20-07-2021





# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000033427

### Submitted Date

17-07-2021

## PART A

### Company Information

#### Company Name

M/s WESTERN COALFIELDS LIMITED, Durgapur Rayatwari Colliery

#### Application UAN number

MPCB-CONSENT-0000066166

#### Address

Post- Chandrapur

#### Plot no

338/7

#### Taluka

Chandrapur

#### Village

Rayatwari Area

#### Capital Investment (In lakhs)

6591.85

#### Scale

L.S.I

#### City

Chandrapur

#### Pincode

442401

#### Person Name

Shri. U. B. Bodhe

#### Designation

Sub Area Manager

#### Telephone Number

8806458486

#### Fax Number

-

#### Email

agentsrsa@gmail.com

#### Region

SRO-Chandrapur

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

MPCB-CONSENT-0000066166

#### Consent Issue Date

22.05.2020

#### Consent Valid Upto

31.03.2021

#### Establishment Year

1982

#### Date of last environment statement submitted

Jun 12 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

-

### Product Information

#### Product Name

Coal

#### Consent Quantity

0.92

#### Actual Quantity

0.049

#### UOM

MT/A

### By-product Information

#### By Product Name

NA

#### Consent Quantity

-

#### Actual Quantity

-

#### UOM

Ton/Y

## Part-B (Water & Raw Material Consumption)

### 1) Water Consumption in m3/day

<b>Water Consumption for Process</b>	<b>Consent Quantity in m3/day</b>	<b>Actual Quantity in m3/day</b>
	-	80
<b>Cooling</b>	-	-
<b>Domestic</b>	200	161
<b>All others</b>	-	-
<b>Total</b>	200	241

## 2) Effluent Generation in CMD / MLD

<b>Particulars</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Daily Trade Effluent	3750	3750	CMD

## 2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

<b>Name of Products (Production)</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Mining	0.158	0.495	CMD

## 3) Raw Material Consumption (Consumption of raw material per unit of product)

<b>Name of Raw Materials</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Explosives	0.414	0.477	Kg/Annum

## 4) Fuel Consumption

<b>Fuel Name</b>	<b>Consent quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Diesel	-	22.875	KL/A

## Part-C

### Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

#### [A] Water

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day) Quantity</b>	<b>Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration</b>	<b>Percentage of variation from prescribed standards with reasons %variation</b>	<b>Standard</b>	<b>Reason</b>
Water Report Attached in Part I	-	-	-	-	-

#### [B] Air (Stack)

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day) Quantity</b>	<b>Concentration of Pollutants discharged(Mg/NM3) Concentration</b>	<b>Percentage of variation from prescribed standards with reasons %variation</b>	<b>Standard</b>	<b>Reason</b>
No Air Stack Monitoring	-	-	-	-	-

## Part-D

### HAZARDOUS WASTES

#### 1) From Process

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
0	NA	NA	Ton/Y

#### 2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	NA	NA	Ton/Y

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Overburden	NA	NA	M3/Month

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	NA	NA	Ton/Y

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	NA	NA	Ton/Y

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
0	NA	Ton/Y	NA

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Overburden	NA	Ton/Y	NA

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Impact of the Pollution Control Measures	-1	0.0005	40784	-1889304	15.00	-

Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.
[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Capital Investment	Water Pollution Control	15.00

[B] Investment Proposed for next Year

<i><b>Detail of measures for Environmental Protection</b></i>	<i><b>Environmental Protection Measures</b></i>	<i><b>Capital Investment (Lacks)</b></i>
Capital Investment	Air, Water Pollution Control	50.00

**Part-I**

*Any other particulars for improving the quality of the environment.*

*Particulars*

Attachments as asked

*Name & Designation*

Shri. U. B. Bodhe, Sub Area Manager

*UAN No:*

MPCB-ENVIRONMENT\_STATEMENT-0000033427

*Submitted On:*

17-07-2021



# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000033635

### Submitted Date

26-07-2021

## PART A

### Company Information

#### Company Name

M/s Western Coalfields Limited, HLC Railway Siding

#### Application UAN number

MPCB-CONSENT-0000089028

#### Address

POST-HINDUSTAN LALPETH COLLIERY

#### Plot no

NA

#### Taluka

Chandrapur

#### Village

WCL-CHANDRAPUR AREA

#### Capital Investment (In lakhs)

81.56

#### Scale

L.S.I

#### City

Chandrapur

#### Pincode

442507

#### Person Name

Shri. Satish Kumar Sinha

#### Designation

Mine Manager

#### Telephone Number

8275967593

#### Fax Number

#### Email

managerhlc1@gmail.com

#### Region

SRO-Chandrapur

#### Industry Category

Green

#### Industry Type

G59 Mineral stack yard / Railway sidings

#### Last Environmental statement submitted online

no

#### Consent Number

MPCB-CONSENT-0000089028

#### Consent Issue Date

26.05.2020

#### Consent Valid Upto

31.03.2025

#### Establishment Year

1924

#### Date of last environment statement submitted

May 19 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

-

### Product Information

#### Product Name

Loading & Unloading of Coal

#### Consent Quantity

4.00

#### Actual Quantity

0.156

#### UOM

MT/A

### By-product Information

#### By Product Name

NA

#### Consent Quantity

-

#### Actual Quantity

-

#### UOM

MT/A

## Part-B (Water & Raw Material Consumption)

### 1) Water Consumption in m3/day

#### Water Consumption for

#### Consent Quantity in m3/day

#### Actual Quantity in m3/day

<b>Process</b>	0.00	52.00
<b>Cooling</b>	-	-
<b>Domestic</b>	1.00	0.00
<b>All others</b>	-	-
<b>Total</b>	1.00	52.00

## 2) Effluent Generation in CMD / MLD

<b>Particulars</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Daily Trade Effluent	0.00	0.00	CMD

## 2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

<b>Name of Products (Production)</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Loading & Unloading of Coal (Cubic Meter/Tonne)	-	0.122	CMD

## 3) Raw Material Consumption (Consumption of raw material per unit of product)

<b>Name of Raw Materials</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
NA	NA	NA	

## 4) Fuel Consumption

<b>Fuel Name</b>	<b>Consent quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Diesel	0.00	10.585	KL/A

## Part-C

### Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

#### [A] Water

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day) Quantity</b>	<b>Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration</b>	<b>Percentage of variation from prescribed standards with reasons %variation</b>	<b>Standard</b>	<b>Reason</b>
Water Report attached in Step-I	-	-	-	-	-

#### [B] Air (Stack)

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day) Quantity</b>	<b>Concentration of Pollutants discharged(Mg/NM3) Concentration</b>	<b>Percentage of variation from prescribed standards with reasons %variation</b>	<b>Standard</b>	<b>Reason</b>
No Air Stack Monitoring	NA	NA	NA	NA	NA

## Part-D

### HAZARDOUS WASTES

#### 1) From Process

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
0	NA	NA	MT/A

#### 2) From Pollution Control Facilities

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
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Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	NA	NA	MT/A

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	NA	NA	MT/A

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	NA	NA	KL/A

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
0	NA	MT/A	NA

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
NA	NA	MT/A	NA

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Impact of the Pollution Control Measures	0.00	0.221	NA	0.00	0.00	-

Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.  
[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Capital Investment	Air & Water Pollution Control Measures	0.00

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
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## Part-I

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**Any other particulars for improving the quality of the environment.**

**Particulars**

Attachments as asked.

**Name & Designation**

Shri. Satish Kumar Sinha, Mine Manager

**UAN No:**

MPCB-ENVIRONMENT\_STATEMENT-0000033635

**Submitted On:**

26-07-2021





# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

**Unique Application Number**

MPCB-ENVIRONMENT\_STATEMENT-0000033442

**Submitted Date**

18-07-2021

## PART A

### Company Information

**Company Name**

Hindusthan Lalpeth Open Cast Project

**Application UAN number**

MPCB-CONSENT-0000089061

**Address**

POST-LALPETH

**Plot no**

document uploaded

**Taluka**

Chandrapur

**Village**

Chandrapur Area

**Capital Investment (In lakhs)**

5713.41

**Scale**

L.S.I

**City**

Chandrapur

**Pincode**

-

**Person Name**

Shri. Manish Poday

**Designation**

Sub Area Manager

**Telephone Number**

8275967560

**Fax Number**

07172-225264

**Email**

hlsubarea@gmail.com

**Region**

SRO-Chandrapur

**Industry Category**

Red

**Industry Type**

R35 Mining and ore beneficiation

**Last Environmental statement submitted online**

yes

**Consent Number**

MPCB-CONSENT-0000089061

**Consent Issue Date**

17.06.2020

**Consent Valid Upto**

31.03.2021

**Establishment Year**

1985

**Date of last environment statement submitted**

Apr 27 2020 12:00:00:000AM

**Industry Category Primary (STC Code) & Secondary (STC Code)**

-

### Product Information

**Product Name**

Coal

**Consent Quantity**

1

**Actual Quantity**

0

**UOM**

MT/A

### By-product Information

**By Product Name**

NA

**Consent Quantity**

-

**Actual Quantity**

-

**UOM**

MT/A

## Part-B (Water & Raw Material Consumption)

### 1) Water Consumption in m3/day

**Water Consumption for**

**Consent Quantity in m3/day**

**Actual Quantity in m3/day**

<b>Process</b>	1190	90
<b>Cooling</b>	-	-
<b>Domestic</b>	8	6
<b>All others</b>	-	-
<b>Total</b>	1198	96

## 2) Effluent Generation in CMD / MLD

<b>Particulars</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Daily Trade Effluent	1025	4384	CMD

## 2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

<b>Name of Products (Production)</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Mining	0	0	CMD

## 3) Raw Material Consumption (Consumption of raw material per unit of product)

<b>Name of Raw Materials</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Explosives	0	0	

## 4) Fuel Consumption

<b>Fuel Name</b>	<b>Consent quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Diesel	-	28.178	KL/A

## Part-C

### Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

#### [A] Water

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day) Quantity</b>	<b>Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration</b>	<b>Percentage of variation from prescribed standards with reasons %variation</b>	<b>Standard</b>	<b>Reason</b>
As per the Water Quality Report Attached in Part-I	-	-	-	-	-

#### [B] Air (Stack)

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day) Quantity</b>	<b>Concentration of Pollutants discharged(Mg/NM3) Concentration</b>	<b>Percentage of variation from prescribed standards with reasons %variation</b>	<b>Standard</b>	<b>Reason</b>
No Stack Monitoring	-	-	-	-	-

## Part-D

### HAZARDOUS WASTES

#### 1) From Process

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
5.1 Used or spent oil	0	0	KL/A

#### 2) From Pollution Control Facilities

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
5.2 Wastes or residues containing oil	0	0	Ton/Y
35.3 Chemical sludge from waste water treatment	0	0	Ton/Y

## Part-E

### **SOLID WASTES**

#### **1) From Process**

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
OVERBURDEN	0	0	M3/Anum

#### **2) From Pollution Control Facilities**

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
-	-	-	CMD

#### **3) Quantity Recycled or Re-utilized within the unit**

<b>Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
5.1 Used or spent oil	-	-	Kl

## Part-F

**Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.**

#### **1) Hazardous Waste**

<b>Type of Hazardous Waste Generated</b>	<b>Qty of Hazardous Waste</b>	<b>UOM</b>	<b>Concentration of Hazardous Waste</b>
5.1 Used or spent oil	0	KL/A	Mine is non operational since April 2018 hence there is no generation of Hazardous Waste during 2020-21
5.2 Wastes or residues containing oil	0	Ton/Y	Mine is non operational since April 2018 hence there is no generation of Hazardous Waste during 2020-21
35.3 Chemical sludge from waste water treatment	0	Ton/Y	Mine is non operational since April 2018 hence there is no generation of Hazardous Waste during 2020-21

#### **2) Solid Waste**

<b>Type of Solid Waste Generated</b>	<b>Qty of Solid Waste</b>	<b>UOM</b>	<b>Concentration of Solid Waste</b>
OVERBURDEN	0	M3/Anum	Stacked outside and stabilized by plantation. Backfilled as and when possible.

## Part-G

**Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.**

<b>Description</b>	<b>Reduction in Water Consumption (M3/day)</b>	<b>Reduction in Fuel &amp; Solvent Consumption (KL/day)</b>	<b>Reduction in Raw Material (Kg)</b>	<b>Reduction in Power Consumption (KWH)</b>	<b>Capital Investment(in Lacs)</b>	<b>Reduction in Maintenance(in Lacs)</b>
Impact of the Pollution Control Measures	4	-0.07608	0.00	1048231	0.00	-

Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.  
[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Capital Expenditure	For Air & Water Pollution Control	0.00

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Capital Investment	Air & Water Pollution Control	94.80

Part-I

Any other particulars for improving the quality of the environment.

Particulars

Attachments as asked

Name & Designation

Shri. Manish Podey, Sub Area Manager

UAN No:

MPCB-ENVIRONMENT\_STATEMENT-0000033442

Submitted On:

18-07-2021



# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000033432

### Submitted Date

17-07-2021

## PART A

### Company Information

#### Company Name

M/s. Western Coalfield Ltd., Manna Incline

#### Application UAN number

MPCB-CONSENT-0000088025

#### Address

Post- Hindustan Lalpeth

#### Plot no

Document uploaded

#### Taluka

Chandrapur

#### Village

Lalpeth Area

#### Capital Investment (In lakhs)

724.62

#### Scale

L.S.I

#### City

Chandrapur

#### Pincode

-

#### Person Name

Shri. R. K. Singh

#### Designation

Mine Manager

#### Telephone Number

8275967795

#### Fax Number

07172-255158

#### Email

manna.safety@gmail.com

#### Region

SRO-Chandrapur

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

MPCB-CONSENT-0000088025

#### Consent Issue Date

26.02.2021

#### Consent Valid Upto

31.03.2023

#### Establishment Year

1999

#### Date of last environment statement submitted

Jun 22 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

-

### Product Information

#### Product Name

Coal

#### Consent Quantity

0.15

#### Actual Quantity

0.072

#### UOM

MT/A

### By-product Information

#### By Product Name

NA

#### Consent Quantity

-

#### Actual Quantity

-

#### UOM

CMD

## Part-B (Water & Raw Material Consumption)

### 1) Water Consumption in m3/day

#### Water Consumption for

#### Consent Quantity in m3/day

#### Actual Quantity in m3/day

<b>Process</b>	79	13.50
<b>Cooling</b>	-	-
<b>Domestic</b>	4	4
<b>All others</b>	-	-
<b>Total</b>	83	17.50

## 2) Effluent Generation in CMD / MLD

<b>Particulars</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Daily Trade Effluent	68	68	CMD

## 2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

<b>Name of Products (Production)</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Mining (Cubic Meter/Tonne)	0.0447	0.0572	CMD

## 3) Raw Material Consumption (Consumption of raw material per unit of product)

<b>Name of Raw Materials</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Explosive (Kg/Tonne)	0.342	0.398	Kg/Annum

## 4) Fuel Consumption

<b>Fuel Name</b>	<b>Consent quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Diesel	-	1851.35	KL/A

## Part-C

### Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

#### [A] Water

<b><i>Pollutants Detail</i></b>	<b><i>Quantity of Pollutants discharged (kL/day)</i></b>	<b><i>Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour</i></b>	<b><i>Percentage of variation from prescribed standards with reasons</i></b>		
	<b><i>Quantity</i></b>	<b><i>Concentration</i></b>	<b><i>%variation</i></b>	<b><i>Standard</i></b>	<b><i>Reason</i></b>
MONITORING REPORT UPLOADED AT STEP I	-	-	-	-	-

#### [B] Air (Stack)

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/NM3)</b>	<b>Percentage of variation from prescribed standards with reasons</b>		
<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>	<b>Standard</b>	<b>Reason</b>	
NO STACK MONITORING	-	-	-	-	-

## Part-D

### HAZARDOUS WASTES

#### 1) From Process

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
0	NA	NA	Ton/Y

#### 2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	NA	NA	Ton/Y

Part-E

<b>SOLID WASTES</b>			
<b>1) From Process</b>			
Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Overburden	NA	NA	CMD
<b>2) From Pollution Control Facilities</b>			
Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	NA	NA	CMD
<b>3) Quantity Recycled or Re-utilized within the unit</b>			
Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	NA	NA	CMD

Part-F

<b>Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.</b>			
<b>1) Hazardous Waste</b>			
Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
0	NA	CMD	NA
<b>2) Solid Waste</b>			
Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
NA	NA	CMD	NA

Part-G

<b>Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.</b>						
Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Impact of the pollution control measures	0.00	13.43	2815.3	-1026395	0.00	-

Part-H

<b>Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.</b>		
<b>[A] Investment made during the period of Environmental Statement</b>		
Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Capital Expenditure	Air & Water Pollution Control Measures	0.00

**[B] Investment Proposed for next Year**

<i><b>Detail of measures for Environmental Protection</b></i>	<i><b>Environmental Protection Measures</b></i>	<i><b>Capital Investment (Lacks)</b></i>
Capital Expenditure	Water Pollution Control Measures	6.50

**Part-I**

*Any other particulars for improving the quality of the environment.*

*Particulars*

Attachments as asked.

*Name & Designation*

Shri. R. K. Singh, Mine Manager

*UAN No:*

MPCB-ENVIRONMENT\_STATEMENT-0000033432

*Submitted On:*

17-07-2021





# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000033428

### Submitted Date

17-07-2021

## PART A

### Company Information

#### Company Name

MAHAKALI COLLIERY

#### Application UAN number

MPCB-CONSENT-0000064952

#### Address

Post- Babupeth

#### Plot no

423

#### Taluka

Chandrapur

#### Village

Rayatwari Area

#### Capital Investment (In lakhs)

2355.00

#### Scale

L.S.I

#### City

Chandrapur

#### Pincode

442403

#### Person Name

VIJAY SHANKAR TIWARI

#### Designation

MINE MANAGER

#### Telephone Number

8275967536

#### Fax Number

07172-251346

#### Email

mahakalicolliery@gmail.com

#### Region

SRO-Chandrapur

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

BO/JD(APC)/UAN No. 64952/R/CC - 1422

#### Consent Issue Date

24/12/2019

#### Consent Valid Upto

31.03.2022

#### Establishment Year

1922

#### Date of last environment statement submitted

May 18 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

-

### Product Information

#### Product Name

Coal

#### Consent Quantity

0.4

#### Actual Quantity

0.081

#### UOM

MT/A

### By-product Information

#### By Product Name

NA

#### Consent Quantity

-

#### Actual Quantity

-

#### UOM

MT/A

## Part-B (Water & Raw Material Consumption)

### 1) Water Consumption in m3/day

<b>Water Consumption for Process</b>	<b>Consent Quantity in m3/day</b>	<b>Actual Quantity in m3/day</b>
	115	115
<b>Cooling</b>	-	-
<b>Domestic</b>	250	250
<b>All others</b>	-	-
<b>Total</b>	365	365

## **2) Effluent Generation in CMD / MLD**

<b>Particulars</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
DAILY TRADE EFFLUENT	4250	4100	CMD

## **2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)**

<b>Name of Products (Production)</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Mining	0.414	0.435	CMD

## **3) Raw Material Consumption (Consumption of raw material per unit of product)**

<b>Name of Raw Materials</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Explosives	0.294	0.217	Kg/Annum

## **4) Fuel Consumption**

<b>Fuel Name</b>	<b>Consent quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Diesel	16.425	12.017	KL/A

## **Part-C**

### **Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)**

#### **[A] Water**

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day) Quantity</b>	<b>Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration</b>	<b>Percentage of variation from prescribed standards with reasons %variation</b>	<b>Standard</b>	<b>Reason</b>
WATER REPORT ATTACHED IN PART1	-	-	-	-	-

#### **[B] Air (Stack)**

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day) Quantity</b>	<b>Concentration of Pollutants discharged(Mg/NM3) Concentration</b>	<b>Percentage of variation from prescribed standards with reasons %variation</b>	<b>Standard</b>	<b>Reason</b>
NO AIR STACK MONITORING	-	-	-	-	-

## **Part-D**

### **HAZARDOUS WASTES**

#### **1) From Process**

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
0	-	-	KL/A

#### **2) From Pollution Control Facilities**

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	-	-	Ton/Y

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	0	0	CMD

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
-	-	-	CMD

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	-	-	CMD

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
0	-	CMD	-

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
-	-	CMD	-

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Impact of pollution control measures	-13	-0.02	6890	-2665520	0.00	-

Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.

[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
CAPITAL EXPENDITURE	Air & water Pollution Control Measures	0.00

[B] Investment Proposed for next Year

<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
CAPITAL EXPENDITURE (Procurement of Mist/Fogger Cannon System)	Air Pollution Control Measures	8.02

Part-I

***Any other particulars for improving the quality of the environment.***

***Particulars***

Attachments as asked

***Name & Designation***

Shri. Vijay Shankar Tiwari, Mine Manager

***UAN No:***

MPCB-ENVIRONMENT\_STATEMENT-0000033428

***Submitted On:***

17-07-2021



# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000033430

### Submitted Date

17-07-2021

## PART A

### Company Information

#### Company Name

Nandgaon Incline, Western Coal Fields Ltd

#### Application UAN number

MPCB-CONSENT-0000066246

#### Address

Po- Nandgaon (Pode)

#### Plot no

-

#### Taluka

Chandrapur

#### Village

Nandgaon (Pode)

#### Capital Investment (In lakhs)

1453.00

#### Scale

LSI

#### City

Chandrapur

#### Pincode

442403

#### Person Name

Shri. Prafulla KumarR

#### Designation

Mine Manager

#### Telephone Number

07172225158

#### Fax Number

-

#### Email

managernicha@gmail.com

#### Region

SRO-Chandrapur

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

BO/JDAPW/UAN NA 22310/R/CC-1046

#### Consent Issue Date

24.12.2019

#### Consent Valid Upto

31.03.2021

#### Establishment Year

1980

#### Date of last environment statement submitted

Jun 12 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

-

### Product Information

#### Product Name

COAL

#### Consent Quantity

0.30

#### Actual Quantity

0.077

#### UOM

MT/A

### By-product Information

#### By Product Name

NA

#### Consent Quantity

-

#### Actual Quantity

-

#### UOM

CMD

## Part-B (Water & Raw Material Consumption)

### 1) Water Consumption in m3/day

<b>Water Consumption for Process</b>	<b>Consent Quantity in m3/day</b>	<b>Actual Quantity in m3/day</b>
	172	172
<b>Cooling</b>	-	-
<b>Domestic</b>	310	310
<b>All others</b>	-	-
<b>Total</b>	482	482

## **2) Effluent Generation in CMD / MLD**

<b>Particulars</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Daily trade effluent	6508	4860	CMD

## **2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)**

<b>Name of Products (Production)</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Coal (CUBIC METER/TONNE)	0.636	0.684	CMD

## **3) Raw Material Consumption (Consumption of raw material per unit of product)**

<b>Name of Raw Materials</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
EXPLOSIVES (KG/TONNE)	0.307	0.352	Kg/Annum

## **4) Fuel Consumption**

<b>Fuel Name</b>	<b>Consent quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
HSD	7.289	6.924	KL/A

## **Part-C**

### **Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)**

#### **[A] Water**

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day) Quantity</b>	<b>Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration</b>	<b>Percentage of variation from prescribed standards with reasons %variation</b>	<b>Standard</b>	<b>Reason</b>
WATER REPORT ATTACHED IN STEP I	-	-	-	-	-

#### **[B] Air (Stack)**

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day) Quantity</b>	<b>Concentration of Pollutants discharged(Mg/NM3) Concentration</b>	<b>Percentage of variation from prescribed standards with reasons %variation</b>	<b>Standard</b>	<b>Reason</b>
NO AIR STACK MONITORING	-	--	-	-	-

## **Part-D**

### **HAZARDOUS WASTES**

#### **1) From Process**

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
0	NA	NA	KL/A

#### **2) From Pollution Control Facilities**

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	NA	NA	Ton/Y

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
OVERBURDEN	NA	NA	CMD

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
-	-	-	CMD

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	-	-	CMD

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
0	NA	CMD	-

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
OVERBURDEN	NA	CMD	-

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Impact of the pollution Control measures	0.00	0.0044	-1475.27	-533939	0.00	-

Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.
[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
CAPITAL EXPENDITURE	Air Pollution Control measures	0.00

[B] Investment Proposed for next Year

<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
CAPITAL INVESTMENT	Water Pollution Control measures	57.60

## Part-I

***Any other particulars for improving the quality of the environment.***

### ***Particulars***

Attachments as asked

### ***Name & Designation***

Shri. Prafulla Kumar, MINE MANAGER

### ***UAN No:***

MPCB-ENVIRONMENT\_STATEMENT-0000033430

### ***Submitted On:***

17-07-2021





# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000033503

### Submitted Date

20-07-2021

## PART A

### Company Information

#### Company Name

M/s Western Coal Fields Limited, Padmapur Open Cast Mine

#### Application UAN number

MPCB-CONSENT-0000098267

#### Address

POST-PADMAPUR

#### Plot no

document uploaded

#### Taluka

Chandrapur

#### Village

WCL-CHANDRAPUR AREA

#### Capital Investment (In lakhs)

21404.65

#### Scale

L.S.I

#### City

Chandrapur

#### Pincode

-

#### Person Name

Shri. Devendra Prasad

#### Designation

Sub Area Manager

#### Telephone Number

9405743912

#### Fax Number

-

#### Email

sampadmapur@gmail.com

#### Region

SRO-Chandrapur

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

MPCB-CONSENT-0000098267

#### Consent Issue Date

31.05.2021

#### Consent Valid Upto

31.03.2022

#### Establishment Year

1985

#### Date of last environment statement submitted

Aug 18 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

-

### Product Information

#### Product Name

Coal

#### Consent Quantity

2.5

#### Actual Quantity

0.457

#### UOM

MT/A

### By-product Information

#### By Product Name

NA

#### Consent Quantity

-

#### Actual Quantity

-

#### UOM

MT/A

## Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day	
	405	405	
Cooling	-	-	
Domestic	10	10	
All others	-	-	
Total	415	415	

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
DAILY TRADE EFFLUENT	6595	6390	CMD

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
Mining	0.141	0.323	CMD

3) Raw Material Consumption (Consumption of raw material per unit of product)

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
Explosive (Kg/Tonne)	1.23	1.90	

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
Diesel	-	3624.69	KL/A

Part-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

[A] Water

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour  Concentration	Percentage of variation from prescribed standards with reasons  %variation	Standard	Reason
as per water quality report attached in part I	-	-	--	-	-

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/NM3)  Concentration	Percentage of variation from prescribed standards with reasons  %variation	Standard	Reason
NO STACK MONITORING	-	-	-	-	-

Part-D

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
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5.1 Used or spent oil	32.13	31.08	KL/A
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2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.2 Wastes or residues containing oil	5.12	3.50	Ton/Y
35.3 Chemical sludge from waste water treatment	36	39.20	Ton/Y

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
OVERBURDEN	7032	3373.74	CMD

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
-	-	-	CMD

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.1 Used or spent oil	-	-	CMD

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
5.1 Used or spent oil	31.08	KL/A	Auctioned to CPCB Authorised Recyclers
5.2 Wastes or residues containing oil	3.50	Ton/Y	Disposed off by MEPL
35.3 Chemical sludge from waste water treatment	39.20	Ton/Y	Disposed off by MEPL

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
OVERBURDEN	3373.74	CMD	External Dumps are stablised by Plantation and backfilling is carried out if possible.
-	-	CMD	-
-	-	CMD	-

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Impact of the pollution Control measures	38	2.51	457483	-2821728	0.00	-

Part-H

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<i>Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.</i>		
<i>[A] Investment made during the period of Environmental Statement</i>		
<i>Detail of measures for Environmental Protection</i>	<i>Environmental Protection Measures</i>	<i>Capital Investment (Lacks)</i>
CAPITAL EXPENDITURE	FOR AIR POLLUTION CONTROL MEASURES	0.00

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<i>[B] Investment Proposed for next Year</i>		
<i>Detail of measures for Environmental Protection</i>	<i>Environmental Protection Measures</i>	<i>Capital Investment (Lacks)</i>
CAPITAL INVESTMENT	FOR AIR & WATER POLLUTION CONTROL MEASURES	24.00

Part-I

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*Any other particulars for improving the quality of the environment.*

Particulars

Documents as asked.

Name & Designation

D. Prasad, Sub Area Manager

UAN No:

MPCB-ENVIRONMENT\_STATEMENT-0000033503

Submitted On:

20-07-2021



# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000034463

### Submitted Date

28-08-2021

## PART A

### Company Information

#### Company Name

New Majri Underground to OC Mine

#### Application UAN number

MPCB-CONSENT-00000101444

#### Address

New Majri UG to OC Mine, At: Majri, PO:  
Shivjinagar, Ta: Bhadrawati, District:  
Chandrapur, Maharashtra

#### Plot no

235-249

#### Taluka

Bhadrawati

#### Village

Shivjinagar

#### Capital Investment (In lakhs)

17314.5

#### Scale

LSI

#### City

Chandrapur

#### Pincode

442503

#### Person Name

Balmiki Prasad

#### Designation

Sub Area Manager

#### Telephone Number

8275967116

#### Fax Number

07175285088

#### Email

newmajriugtooc@gmail.com

#### Region

SRO-Chandrapur

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

format1.0/CAC/UAN No.  
0000101444/CO-2102000370

#### Consent Issue Date

05.02.2021

#### Consent Valid Upto

31.03.2022

#### Establishment Year

2015

#### Date of last environment statement submitted

Sep 5 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

RED

### Product Information

#### Product Name

Coal

#### Consent Quantity

3000000

#### Actual Quantity

1881964

#### UOM

Ton/Y

### By-product Information

#### By Product Name

NA

#### Consent Quantity

-

#### Actual Quantity

-

#### UOM

CMD

Part-B (Water & Raw Material Consumption)

<u>1) Water Consumption in m3/day</u>			
Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day	
	250	250	
Cooling	0	0	
Domestic	5	4	
All others	140	140	
Total	395	394	

<u>2) Effluent Generation in CMD / MLD</u>			
Particulars	Consent Quantity	Actual Quantity	UOM
Daily Trade Effluent	3973	3800	CMD

<u>2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)</u>			
Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
COAL(CUBIC METER/TONNE)	0.0325	0.062	

<u>3) Raw Material Consumption (Consumption of raw material per unit of product)</u>			
Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
EXPLOSIVES (KG/TONNE)	0.0006363	0.00139	Ton/Ton

<u>4) Fuel Consumption</u>			
Fuel Name	Consent quantity	Actual Quantity	UOM
HSD	NA	3360.452	KL/A

Part-C

<u>Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)</u>					
<u>[A] Water</u>					
Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour	Percentage of variation from prescribed standards with reasons	Standard	Reason
	Quantity	Concentration	%variation		
Monitoring report attached	-	-	-	-	-
<u>[B] Air (Stack)</u>					
Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/NM3)	Percentage of variation from prescribed standards with reasons	Standard	Reason
	Quantity	Concentration	%variation		
NA	0	0	0	0	-

Part-D

<u>HAZARDOUS WASTES</u>				
<u>1) From Process</u>				
Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM	

5.1 Used or spent oil	29.14	10.938	KL/A
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2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
2.2 Sludge containing oil	1	13.97	Ton/Y
5.2 Wastes or residues containing oil	1	1.66	Ton/Y

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Overburden incl. Top Soil	3856904	6668541	M3/Anum

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	0	0	CMD

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	CMD

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
5.1 Used or spent oil	106.483	KL/A	Auhorised recycler
5.2 Wastes or residues containing oil	1.66	Ton/Y	CHWTSDF BUTIBORI
2.2 Sludge containing oil	13.97		CHWTSDF BUTIBORI

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
OVERBURDEN incl. TOP SOIL	6668541	M3/Anum	OB Dump, top Soil Dump and Embankment

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Impact of the pollution Control measures	0	0	0	0	1.35	0

Part-H

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**Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.**

**[A] Investment made during the period of Environmental Statement**

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
Pollution control measures	Capital Expenditure	1.35
Pollution control measures	Revenue Expenditure	71.05

---

**[B] Investment Proposed for next Year**

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
Capital Investment	Mist cannon, sweeping machine etc	92.39

---

**Part-I**

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**Any other particulars for improving the quality of the environment.**

**Particulars**

Environment protection and abatement of pollution

**Name & Designation**

B.K. Gupta, Dy.G.M. (Min)/ Sub Area Manager

**UAN No:**

MPCB-ENVIRONMENT\_STATEMENT-0000034463

**Submitted On:**

28-08-2021





# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000034455

### Submitted Date

28-08-2021

## PART A

### Company Information

#### Company Name

New Majri - II (A) Open Cast Coal Mine  
Expansion Project

#### Application UAN number

MPCB-CONSENT-0000089557

#### Address

New Majri II (A) OC Mine, At: Majri, PO:  
Shivjinagar, Ta: Bhadrawati, District:  
Chandrapur, Maharashtra

#### Plot no

1-10

#### Taluka

Bhadrawati

#### Village

Shivjinagar

#### Capital Investment (In lakhs)

12511.52

#### Scale

L.S.I

#### City

Chandrapur

#### Pincode

442503

#### Person Name

Balmiki Prasad

#### Designation

Sub Area Manager

#### Telephone Number

8275967116

#### Fax Number

07175285088

#### Email

newmajrioc@gmail.com

#### Region

SRO-Chandrapur

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

Format1.0/CAC/UAN no.  
0000089557/CR-2006000751

#### Consent Issue Date

17.06.2020

#### Consent Valid Upto

31.03.2021

#### Establishment Year

1975

#### Date of last environment statement submitted

Sep 5 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

RED

### Product Information

#### Product Name

Coal

#### Consent Quantity

2500000

#### Actual Quantity

1068616

#### UOM

Ton/Y

### By-product Information

#### By Product Name

NA

#### Consent Quantity

0

#### Actual Quantity

0

#### UOM

Ton/Y

Part-B (Water & Raw Material Consumption)

<b><u>1) Water Consumption in m3/day</u></b>			
<b>Water Consumption for Process</b>	<b>Consent Quantity in m3/day</b>	<b>Actual Quantity in m3/day</b>	
	850	800	
<b>Cooling</b>	0	0	
<b>Domestic</b>	400	200	
<b>All others</b>	50	50	
<b>Total</b>	1300	1050	

<b><u>2) Effluent Generation in CMD / MLD</u></b>			
<b>Particulars</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Mine discharge	5992	5800	CMD

<b><u>2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)</u></b>			
<b>Name of Products (Production)</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Mining	0.0976	0.224	

<b><u>3) Raw Material Consumption (Consumption of raw material per unit of product)</u></b>			
<b>Name of Raw Materials</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Explosives	0.0019978	2.226	Ton/Ton

<b><u>4) Fuel Consumption</u></b>			
<b>Fuel Name</b>	<b>Consent quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
HSD	na	1715	KL/A

Part-C

<b><u>Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)</u></b>					
<b><u>[A] Water</u></b>					
<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration</b>	<b>Percentage of variation from prescribed standards with reasons %variation</b>	<b>Standard</b>	<b>Reason</b>
AS PER WATER QUALITY REPORT	-	-	-	-	-

<b><u>[B] Air (Stack)</u></b>					
<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/NM3)</b>	<b>Percentage of variation from prescribed standards with reasons %variation</b>	<b>Standard</b>	<b>Reason</b>
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>		
STACK (NA)	0	0	0	0	0

Part-D

<b><u>HAZARDOUS WASTES</u></b>			
<b><u>1) From Process</u></b>			
<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>

5.1 Used or spent oil	109.045	0	KL/A
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2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.2 Wastes or residues containing oil	1.8	2	Ton/Y
2.2 Sludge containing oil	24.48	4.96	Ton/Y

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
over burden (OB)	10537077	5631520	M3/Anum

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NIL	0	0	M3/Anum

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	KL/A

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
5.1 Used or spent oil	55.275	KL/A	0
5.2 Wastes or residues containing oil	2	Ton/Y	0
2.2 Sludge containing oil	4.96	Ton/Y	0

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
OB	5631520	M3/Anum	0

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Pollution control measures	0	0	0	0	98.3	0

Part-H

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**Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.**

**[A] Investment made during the period of Environmental Statement**

<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
CAPITAL EMP EXPENDITURE	AIR AND WATER POLLUTION CONTROL MEASURES	98.3

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**[B] Investment Proposed for next Year**

<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
Works for Air & Water Quality improvement	Mist Cannon, Peizometer, Sprinkler etc	53

## **Part-I**

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**Any other particulars for improving the quality of the environment.**

**Particulars**

Upgradation of Air & Water Pollution control measures

**Name & Designation**

B.K. Gupta, Dy.G.M. (Min)/ Sub Area Manager

**UAN No:**

MPCB-ENVIRONMENT\_STATEMENT-0000034455

**Submitted On:**

28-08-2021



# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000034450

### Submitted Date

27-08-2021

## PART A

### Company Information

#### Company Name

Yekona I Opencast Coal mine Project

#### Application UAN number

MPCB-CONSENT-0000091648

#### Address

Yekona II Opencast Coal Mine Project, Village:  
Yekona, Po: Warora, Th: Warora, District:  
Chandrapur

#### Plot no

89-92

#### Taluka

Warora

#### Village

MAJRI AREA

#### Capital Investment (In lakhs)

5697.00

#### Scale

L.S.I

#### City

Chandrapur

#### Pincode

442907

#### Person Name

S.P. Ahmad

#### Designation

Sub Area Manager

#### Telephone Number

8275967138

#### Fax Number

07175285088

#### Email

yekonaoc@gmail.com

#### Region

SRO-Chandrapur

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

BO/JD(APC)/TB-2UANNNo.91648/R/CC-2009000502

#### Consent Issue Date

09.09.2020

#### Consent Valid Upto

31.03.2021

#### Establishment Year

2020

#### Date of last environment statement submitted

Aug 25 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

RED

### Product Information

#### Product Name

Coal

#### Consent Quantity

400000

#### Actual Quantity

372311

#### UOM

Ton/Y

### By-product Information

#### By Product Name

NA

#### Consent Quantity

-

#### Actual Quantity

-

#### UOM

Ton/Y

## Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
	100	20
Cooling	0	0
Domestic	68	0
All others	4050	1640
Total	4218	1660

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Mine Discharge	4050	1512	CMD

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
Mining	0 PRODUCTION	53.718	

3) Raw Material Consumption (Consumption of raw material per unit of product)

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
Explosives	0 PRODUCTION	.00128	Ton/Ton

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
HSD	-	1772.524	KL/A

Part-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

[A] Water

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
AS PER WATER QUALITY REPORT	-	-	-	-	-

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/NM3) Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
NO STACK	-	-	-	-	-

Part-D

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.1 Used or spent oil	0 PRODUCTION	1.5	KL/A

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
2.2 Sludge containing oil	0 PRODUCTION	4	Ton/Y
5.2 Wastes or residues containing oil	0 PRODUCTION	0.4	Ton/Y

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
OVERBURDEN	0 PRODUCTION	3544327.019	M3/Anum

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
-	-	-	CMD

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	Ton/Y

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
5.1 Used or spent oil	1.5	KL/A	-
2.2 Sludge containing oil	4	Ton/Y	-
5.2 Wastes or residues containing oil	0.4	Ton/Y	-

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
OVERBURDEN	3544327.019	M3/Anum	-

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Impact of Pollution control measures	0 PRODUCTION	0 PRODUCTION	0 PRODUCTION	0 PRODUCTION	15 lakhs	0 PRODUCTION

Part-H

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**Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.**

**[A] Investment made during the period of Environmental Statement**

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
CAPITAL	Sedimentation tank	15.14
REVENUE EXPENDITURE	Statutory fees, Environment monitoring	24.90

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**[B] Investment Proposed for next Year**

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
SPRINKLERS, SEDIMENTATION TANK	SPRINKLING THROUGH MOBILE TANKERS	35

## **Part-I**

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**Any other particulars for improving the quality of the environment.**

**Particulars**

ENVIRONMENT PROTECTION

**Name & Designation**

S.P. AHMAD, SUB AREA MANAGER

**UAN No:**

MPCB-ENVIRONMENT\_STATEMENT-0000034450

**Submitted On:**

27-08-2021





# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000034451

### Submitted Date

27-08-2021

## PART A

### Company Information

#### Company Name

Yekona II Opencast Coal mine Project

#### Application UAN number

MPCB-CONSENT-0000095769

#### Address

Yekona II Opencast Coal Mine Project, Village:  
Yekona, Po: Warora, Th: Warora, District:  
Chandrapur

#### Plot no

89-92

#### Taluka

Warora

#### Village

MAJRI AREA

#### Capital Investment (In lakhs)

10902.75

#### Scale

L.S.I

#### City

Chandrapur

#### Pincode

442907

#### Person Name

S.P. Ahmad

#### Designation

Sub Area Manager

#### Telephone Number

8275967138

#### Fax Number

07175285088

#### Email

yekonaoc@gmail.com

#### Region

SRO-Chandrapur

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

Format1.0/CAC/UAN no.  
0000095769/CR-2103000500

#### Consent Issue Date

09.03.2021

#### Consent Valid Upto

31.03.2021

#### Establishment Year

2017

#### Date of last environment statement submitted

Aug 25 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

RED

### Product Information

#### Product Name

Coal

#### Consent Quantity

845000

#### Actual Quantity

728115

#### UOM

Ton/Y

### By-product Information

#### By Product Name

NA

#### Consent Quantity

-

#### Actual Quantity

-

#### UOM

Ton/Y

Part-B (Water & Raw Material Consumption)

<b><u>1) Water Consumption in m3/day</u></b>		
<b>Water Consumption for Process</b>	<b>Consent Quantity in m3/day</b>	<b>Actual Quantity in m3/day</b>
	20	20
<b>Cooling</b>	0	0
<b>Domestic</b>	5	5
<b>All others</b>	4050	2620
<b>Total</b>	4218	2645

<b><u>2) Effluent Generation in CMD / MLD</u></b>			
<b>Particulars</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Mine Discharge	4050	2620	CMD

<b><u>2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)</u></b>			
<b>Name of Products (Production)</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Mining	0.0297	0.008	

<b><u>3) Raw Material Consumption (Consumption of raw material per unit of product)</u></b>			
<b>Name of Raw Materials</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Explosives	0.000389	.00045	Ton/Ton

<b><u>4) Fuel Consumption</u></b>			
<b>Fuel Name</b>	<b>Consent quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
HSD	-	1595.704	KL/A

Part-C

<b><u>Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)</u></b>					
<b><u>[A] Water</u></b>					
<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration</b>	<b>Percentage of variation from prescribed standards with reasons %variation</b>	<b>Standard</b>	<b>Reason</b>
AS PER WATER QUALITY REPORT	-	-	-	-	-

<b><u>[B] Air (Stack)</u></b>					
<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/NM3)</b>	<b>Percentage of variation from prescribed standards with reasons %variation</b>	<b>Standard</b>	<b>Reason</b>
	<b>Quantity</b>	<b>Concentration</b>			
NO STACK	-	-	-	-	-

Part-D

<b><u>HAZARDOUS WASTES</u></b>			
<b><u>1) From Process</u></b>			
<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>

5.1 Used or spent oil	1.5	2	KL/A
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2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
2.2 Sludge containing oil	0	5.82	Ton/Y
5.2 Wastes or residues containing oil	0	0.6	Ton/Y

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
OVERBURDEN	1615855	2116992.174	M3/Anum

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
-	-	-	CMD

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	Ton/Y

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
5.1 Used or spent oil	2	KL/A	-
2.2 Sludge containing oil	5.82	Ton/Y	-
5.2 Wastes or residues containing oil	0.6	Ton/Y	-

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
OVERBURDEN	2116992.174	M3/Anum	-

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Impact of Pollution control measures	0	0	0	0	11.95 lakhs	0

Part-H

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**Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.**

**[A] Investment made during the period of Environmental Statement**

<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
CAPITAL	Fixed Sprinklers	11.95
REVENUE EXPENDITURE	Statutory fees, Environment monitoring and Op and Maintenance	42.3

---

**[B] Investment Proposed for next Year**

<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
SPRINKLERS, CAAQMS	SPRINKLING THROUGH MIST CANNON	140

**Part-I**

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**Any other particulars for improving the quality of the environment.**

**Particulars**

ENVIRONMENT PROTECTION

**Name & Designation**

S.P. AHMAD, SUB AREA MANAGER

**UAN No:**

MPCB-ENVIRONMENT\_STATEMENT-0000034451

**Submitted On:**

27-08-2021



# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000037768

### Submitted Date

28-09-2021

## PART A

### Company Information

#### Company Name

Adasa UG to OC Coal Mine Expansion of M/s Western Coalfields Limited, Nagpur (A Subsidiary of the Coal India Ltd-GOI-U/

#### Application UAN number

92022

#### Address

Office of the Sub Area Manager, Saoner, Adasa UG to OC mine at village Adasa, tehsil Saoner, Nagpur Area of M/s WCL Nagpur

#### Plot no

Village katodi

#### Taluka

Saoner

#### Village

Katodi

#### Capital Investment (In lakhs)

4762.7566786

#### Scale

L.S.I.

#### City

Nagpur

#### Pincode

441107

#### Person Name

Mine Manager Incharge of Project

#### Designation

Mine Manager

#### Telephone Number

07122643547

#### Fax Number

07113233135

#### Email

adasaugminemanager@yahoo.com

#### Region

SRO-Nagpur I

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

BO/JD(APC)/UAN No. 920022/E/CC-717

#### Consent Issue Date

18-01-2021

#### Consent Valid Upto

2021-12-31

#### Establishment Year

2020

#### Date of last environment statement submitted

Sep 23 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

### Product Information

#### Product Name

Coal

#### Consent Quantity

1.85

#### Actual Quantity

0.017722

#### UOM

MT/A

### By-product Information

#### By Product Name

Overburden (Top and hard soil)

#### Consent Quantity

0

#### Actual Quantity

2648000

#### UOM

CMD

Part-B (Water & Raw Material Consumption)

<u>1) Water Consumption in m3/day</u>		
Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
	358.00	358.00
Cooling	0.00	0.00
Domestic	32.00	32.00
All others	2610.00	0.00
Total	3000.00	390.00

<u>2) Effluent Generation in CMD / MLD</u>			
Particulars	Consent Quantity	Actual Quantity	UOM
Trade Effluent (Mine Discharge)	2628	2610	CMD
Domestic Effluent	32	19.2	CMD

<u>2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)</u>			
Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
Coal	3105769231	7373321.296	

<u>3) Raw Material Consumption (Consumption of raw material per unit of product)</u>			
Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
Explosive used for blasting purpose	520949519.2	9996755.44520934	

<u>4) Fuel Consumption</u>			
Fuel Name	Consent quantity	Actual Quantity	UOM
Diesel	0	0	KL/A

Part-C

<u>Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)</u>					
<u>[A] Water</u>					
Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour	Percentage of variation from prescribed standards with reasons		
	Quantity	Concentration	%variation	Standard	Reason
AS PER THE WATER QUALITY REPORT UPLOADED	0	0	0	0	0

<u>[B] Air (Stack)</u>					
Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/NM3)	Percentage of variation from prescribed standards with reasons		
	Quantity	Concentration	%variation	Standard	Reason
NO STOCK MONITORING	0	0	0	0	0

Part-D

## HAZARDOUS WASTES

### 1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	CMD

### 2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	CMD

## Part-E

## SOLID WASTES

### 1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Overburden	0	2648000	M3/Anum

### 2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	0	0	CMD

### 3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	CMD

## Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

### 1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
0	0	CMD	0

### 2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
0	0	CMD	0

## Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Impact of the pollution Control measures taken	-390	0.000792	-174995.35	4200148	0	9.55

## Part-H

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**Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.**

**[A] Investment made during the period of Environmental Statement**

<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
Capital Investment	Implementation of the Air and water pollution Control Measures	0

---

**[B] Investment Proposed for next Year**

<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
Capital Investment	Implementation of the Air and water pollution Control Measures	98.00

## **Part-I**

---

**Any other particulars for improving the quality of the environment.**

**Particulars**

As mine is just converted into Open cast, Installation of the ETP, Sedimentation tank for treatment of mine water, Installation fixed type sprinkler, CAAQMS etc work will be implemented in coming year for new mine

**Name & Designation**

Mine Manager, Adasa UG Coal Mine Expansion mine

**UAN No:**

MPCB-ENVIRONMENT\_STATEMENT-0000037768

**Submitted On:**

28-09-2021





# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000039130

### Submitted Date

30-09-2021

## PART A

### Company Information

#### Company Name

Bhanegaon Open Cast Coal Mine Project of Western Coalfields Limited, Nagpur (A subsidiary of Coal India Ltd, Ministry of Coal, GOI)

#### Application UAN number

MPCB-CONSENT-0000099765

#### Address

Office of the Mine Manager, Bhanegaon Open Cast Coal Mine Project Taluka - Kamptee, District - Nagpur Pin Code - 440026 (Maharashtra)

#### Plot no

Survey of India Toposheet No 550/3, Khasera no 12/1D & 12/2

#### Taluka

Kamptee

#### Village

440026

#### Capital Investment (In lakhs)

10111.3152562

#### Scale

L.S.I

#### City

Nagpur

#### Pincode

440026

#### Person Name

Manager In -Charge of Project

#### Designation

Project Manager- Bhanegaon OC Mine

#### Telephone Number

8275970813

#### Fax Number

07122643547

#### Email

bhanegaonocminemanager@yahoo.com

#### Region

SRO-Nagpur I

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

Format 1.0/CAC/UAN no 0000099765/CR-2106000686 dated 27.05.2020

#### Consent Issue Date

15.06.2021

#### Consent Valid Upto

31.03.2022

#### Establishment Year

2018

#### Date of last environment statement submitted

Sep 23 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

### Product Information

#### Product Name

Coal

#### Consent Quantity

1.15

#### Actual Quantity

0.18369

#### UOM

MT/A

### By-product Information

#### By Product Name

#### Consent Quantity

#### Actual Quantity

#### UOM

Part-B (Water & Raw Material Consumption)

<b>1) Water Consumption in m3/day</b>				
<b>Water Consumption for Process</b>	<b>Consent Quantity in m3/day</b>	<b>Actual Quantity in m3/day</b>		
	9400.00	4700.00		
<b>Cooling</b>	0.00	0.00		
<b>Domestic</b>	135.00	135.00		
<b>All others</b>	300.00	4700.00		
<b>Total</b>	9835.00	9535.00		
<b>2) Effluent Generation in CMD / MLD</b>				
<b>Particulars</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>	
Trade Effluent (Only mine discharged water-no mixing))30632 quantity is used by TPS	9400	30632	CMD	
Domestic Effluent	80	81	CMD	
<b>2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)</b>				
<b>Name of Products (Production)</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>	
Coal	1727639.024	9339103.925		
<b>3) Raw Material Consumption (Consumption of raw material per unit of product)</b>				
<b>Name of Raw Materials</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>	
Explosive used for blasting purpose	856418.8306	145383	Kg/Annum	
<b>4) Fuel Consumption</b>				
<b>Fuel Name</b>	<b>Consent quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>	
Diesel	0	288800	Ltr/A	

Part-C

<b>Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)</b>					
<b>[A] Water</b>					
<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour</b>	<b>Percentage of variation from prescribed standards with reasons</b>		
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>	<b>Standard</b>	<b>Reason</b>
NA- only dust generated during Coal extraction	0	0	Nil	Nil	Nil
<b>[B] Air (Stack)</b>					
<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/NM3)</b>	<b>Percentage of variation from prescribed standards with reasons</b>		
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>	<b>Standard</b>	<b>Reason</b>
Not applicable	0	0	Not applicable	Not applicable	Not applicable

Part-D

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	CMD

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	CMD

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Overburden (Soil)	3142000	2161827	M3/Anum

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	0	0	KI

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	CMD

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
0	0	CMD	NA

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Overburden	2161827	M3/Anum	overburden stacked at earmarked sites

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Impact of the pollution Control measures taken	-1150	-0.670444	496941.4	303591	0	-18.17

Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.  
[A] Investment made during the period of Environmental Statement

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
Capital Expenditure	Air & Water pollution control measures	1.80

[B] Investment Proposed for next Year

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
Capital Expenditure	Air & Water pollution control measures	25.79

Part-I

Any other particulars for improving the quality of the environment.

Particulars

Project Manager

Name & Designation

Project /Mine Manager, Bhanegaon OC project, Bhanegaon Singhori Sub Area of WCL, Nagpur Area

UAN No:

MPCB-ENVIRONMENT\_STATEMENT-0000039130

Submitted On:

30-09-2021



# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000036900

### Submitted Date

26-09-2021

## PART A

### Company Information

#### Company Name

GONDEGAON EXTENSION OC COAL MINE  
EXPANSION PROJECT

#### Application UAN number

MPCB-CONSENT-0000041516. RENEWAL  
APPLICATION IS UNDER PROCESS

#### Address

Gondegaon OCM, P.O Gondegaon, Tehsil-  
Parseoni

#### Plot no

SAM OFFICE, GONDEGAON

#### Taluka

PARSEONI

#### Village

GONDEGAON

#### Capital Investment (In lakhs)

274.99

#### Scale

L.S.I

#### City

Nagpur

#### Pincode

441404

#### Person Name

SUB AREA MANAGER

#### Designation

Dy.GM (MIN)/ SUB AREA  
MANAGER, GONDEGAON SUB AREA

#### Telephone Number

0712640200

#### Fax Number

07122643352

#### Email

wclngpenv@gmail.com

#### Region

SRO-Nagpur I

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

FORMAT 1.0/CAC/UAN  
NO.0000041516/CO/CAC-2003000079 FRESH  
APPLICATION FOR CONSENT TO OPERATE IS UNDER  
PROCESS

#### Consent Issue Date

02/03/2020

#### Consent Valid Upto

31.12.2020

#### Establishment Year

1992

#### Date of last environment statement submitted

Sep 24 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

### Product Information

#### Product Name

COAL

#### Consent Quantity

3.5

#### Actual Quantity

3.50

#### UOM

MT/A

### By-product Information

#### By Product Name

OVERBURDEN

#### Consent Quantity

1053.843

#### Actual Quantity

24457.80

#### UOM

CMD

Part-B (Water & Raw Material Consumption)

<b><u>1) Water Consumption in m3/day</u></b>		
<b>Water Consumption for Process</b>	<b>Consent Quantity in m3/day</b>	<b>Actual Quantity in m3/day</b>
	2100.00	2050.00
<b>Cooling</b>	0.00	0.00
<b>Domestic</b>	670.00	640.00
<b>All others</b>	11100.00	3950.00
<b>Total</b>	13870.00	6640.00

<b><u>2) Effluent Generation in CMD / MLD</u></b>			
<b>Particulars</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
MINE WATER DISCHARGE	35848	35840	CMD

<b><u>2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)</u></b>			
<b>Name of Products (Production)</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Mining	0.00021	0.00019	Ton/Ton

<b><u>3) Raw Material Consumption (Consumption of raw material per unit of product)</u></b>			
<b>Name of Raw Materials</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
EXPLOSIVE	0.0011	0.004	Ton/Ton

<b><u>4) Fuel Consumption</u></b>			
<b>Fuel Name</b>	<b>Consent quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Diesel	57.358	57.358	KL/A

Part-C

<b><u>Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)</u></b>					
<b><u>[A] Water</u></b>					
<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour</b>	<b>Percentage of variation from prescribed standards with reasons</b>	<b>Standard</b>	<b>Reason</b>
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>		
As per monitoring report (Attached)	0	0	-	-	-

<b><u>[B] Air (Stack)</u></b>					
<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/NM3)</b>	<b>Percentage of variation from prescribed standards with reasons</b>	<b>Standard</b>	<b>Reason</b>
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>		
NOT APPLICABLE	0	0	-	-	-

Part-D

<b><u>HAZARDOUS WASTES</u></b>			
<b><u>1) From Process</u></b>			
<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
3.3 Sludge and filters contaminated with oil	3.36	3.3	Ton/Y
34.2 Sludge from treatment of waste water arising out of cleaning / disposal of barrels / containers	20	24	Ton/Y

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
overburden	34318.30	24457.80	CMD

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	0	0	Ton/Y

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	CMD

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
3.3 Sludge and filters contaminated with oil	3.3	Ton/Y	3.360
34.2 Sludge from treatment of waste water arising out of cleaning / disposal of barrels / containers	24	Ton/Y	24

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
OVERBURDEN	24457.80	CMD	-

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
IMPACT OF THE POLLUTION CONTROL MEASURES	47.20	-0.30	-77296	-4200	22.11	8.66

Part-H

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***Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.***

***[A] Investment made during the period of Environmental Statement***

<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
Revenue Expenditure	Revenue Expenditure	102.74
Capital Expenditure	Capital Expenditure	22.11

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***[B] Investment Proposed for next Year***

<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
WORKS PROPOSED FOR FY 2021-22	EXPENDITURE ONE ENVIRONMENT	290.00

Part-I

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***Any other particulars for improving the quality of the environment.***

***Particulars***  
Attached

***Name & Designation***  
Sub Area Manager (Gondegaon Sub Area), WCL

***UAN No:***  
MPCB-ENVIRONMENT\_STATEMENT-0000036900

***Submitted On:***  
26-09-2021





# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000038389

### Submitted Date

29-09-2021

## PART A

### Company Information

#### Company Name

INDER UG TO OC PROJECT

#### Application UAN number

MPCB-CONSENT-0000081212

#### Address

INDER KAMPTTEE KANHAN PARSEONI NAGPUR

#### Plot no

MANAGER OFFICE INDER

#### Taluka

PARSEONI

#### Village

KANHAN

#### Capital Investment (In lakhs)

2244.62

#### Scale

LSI

#### City

Nagpur

#### Pincode

440404

#### Person Name

SUB AREA MANAGER

#### Designation

SUB AREA MANAGER

#### Telephone Number

07122640200

#### Fax Number

07122643352

#### Email

wclngpenv2gmail.com

#### Region

SRO-Nagpur I

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

FORMAT 1.0/CAC/UAN NO.81212/c-2005000590

#### Consent Issue Date

2020-05-22

#### Consent Valid Upto

2020-10-31

#### Establishment Year

2012

#### Date of last environment statement submitted

Sep 22 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

### Product Information

#### Product Name

COAL

#### Consent Quantity

1.20

#### Actual Quantity

0.572050

#### UOM

MT/A

### By-product Information

#### By Product Name

OVERBURDEN

#### Consent Quantity

3114961

#### Actual Quantity

3114961

#### UOM

## Part-B (Water & Raw Material Consumption)

### 1) Water Consumption in m3/day

#### Water Consumption for

#### Consent Quantity in m3/day

#### Actual Quantity in m3/day

<b>Process</b>	600.00	600.00
<b>Cooling</b>	0.00	0.00
<b>Domestic</b>	69.00	0.00
<b>All others</b>	11000.00	0.00
<b>Total</b>	11669.00	600.00

## 2) Effluent Generation in CMD / MLD

<b>Particulars</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
MINE WATER DISCHARGE	11060	11000	CMD

## 2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

<b>Name of Products (Production)</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
MINING	0.00023	0.0003	Ton/Ton

## 3) Raw Material Consumption (Consumption of raw material per unit of product)

<b>Name of Raw Materials</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
EXPLOSIVE	0.00010	0.00016	Ton/Ton

## 4) Fuel Consumption

<b>Fuel Name</b>	<b>Consent quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
DIESEL	0	2571.669	KL/A

## Part-C

### Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

#### [A] Water

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour</b>	<b>Percentage of variation from prescribed standards with reasons</b>	<b>Standard</b>	<b>Reason</b>
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>		
AS PER MONITORING REPORTS ATTACHED	0	0	0	0	0

#### [B] Air (Stack)

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/NM3)</b>	<b>Percentage of variation from prescribed standards with reasons</b>	<b>Standard</b>	<b>Reason</b>
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>		
NA	0	0	0	0	0

## Part-D

### HAZARDOUS WASTES

#### 1) From Process

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
0	0.0	0.0	Ton/Y

#### 2) From Pollution Control Facilities

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
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Part-E

<b>SOLID WASTES</b>			
<b>1) From Process</b>			
<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
OVERBURDEN	2498599	3114961	M3/Anum
<b>2) From Pollution Control Facilities</b>			
<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
NA	0	0	set/month
<b>3) Quantity Recycled or Re-utilized within the unit</b>			
<b>Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
0	0	0	set/month

Part-F

<b>Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.</b>			
<b>1) Hazardous Waste</b>			
<b>Type of Hazardous Waste Generated</b>	<b>Qty of Hazardous Waste</b>	<b>UOM</b>	<b>Concentration of Hazardous Waste</b>
2.2 Sludge containing oil	4.770	Ton/Y	4.770
<b>2) Solid Waste</b>			
<b>Type of Solid Waste Generated</b>	<b>Qty of Solid Waste</b>	<b>UOM</b>	<b>Concentration of Solid Waste</b>
NA	0	set/month	0

Part-G

<b>Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.</b>						
<b>Description</b>	<b>Reduction in Water Consumption (M3/day)</b>	<b>Reduction in Fuel &amp; Solvent Consumption (KL/day)</b>	<b>Reduction in Raw Material (Kg)</b>	<b>Reduction in Power Consumption (KWH)</b>	<b>Capital Investment(in Lacs)</b>	<b>Reduction in Maintenance(in Lacs)</b>
IMPACT OF POLLUTION CONTROL MEASURES	0.00	0.000047	1410	521450	0.00	6.75

Part-H

<b>Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.</b>		
<b>[A] Investment made during the period of Environmental Statement</b>		
<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
CAPITAL EXPENDITURE 2020-21	CAPITAL EXPENDITURE	0.00
REVENUE EXPENDITURE 2020-21	REVENUE EXPENDITURE	22.79

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**[B] Investment Proposed for next Year**

<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
WORKS PROPOSED FOR FY 2021-22	EXPENDITURE ONE ENVIRONMENT	47.00

**Part-I**

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**Any other particulars for improving the quality of the environment.**

**Particulars**

ATTACHED

**Name & Designation**

SUB AREA MANAGER

**UAN No:**

MPCB-ENVIRONMENT\_STATEMENT-0000038389

**Submitted On:**

29-09-2021



# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000038379

### Submitted Date

29-09-2021

## PART A

### Company Information

#### Company Name

KAMPTEE DEEP OC, WESTERN COALFILED LIMITED

#### Application UAN number

MPCB-CONSENT-0000090050

#### Address

EXPANSION OF KAMPTEE DEEP OC MINE UNDER KAMPTEE SUB AREA

#### Plot no

WCL,KAMPTEE DEEP PROJECT

#### Taluka

PARSEONI

#### Village

KANHAN

#### Capital Investment (In lakhs)

13486.99712

#### Scale

L.S.I

#### City

Nagpur

#### Pincode

441404

#### Person Name

MINE MANAGER

#### Designation

MINE MANAGER

#### Telephone Number

07122640200

#### Fax Number

07122643352

#### Email

wclngpenv@gmail.com

#### Region

SRO-Nagpur I

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

FORMAT 1.0/CAC/UAN  
NO.0000090050/CR-2007001724

#### Consent Issue Date

29/07/2020

#### Consent Valid Upto

31.03.2021

#### Establishment Year

2012

#### Date of last environment statement submitted

Sep 19 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

### Product Information

#### Product Name

COAL

#### Consent Quantity

2.00

#### Actual Quantity

0.852

#### UOM

MT/A

### By-product Information

#### By Product Name

OVERBURDEN

#### Consent Quantity

16920000

#### Actual Quantity

5123628

#### UOM

## Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
	1950.00	700.00
Cooling	0.00	0.00
Domestic	3000.00	1146.00
All others	750.00	300.00
Total	5700.00	2146.00

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
MINE WATER DISCHARGE	35426	20736	CMD

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
Mining(COAL)	0.000629	0.0003	Ton/Ton

3) Raw Material Consumption (Consumption of raw material per unit of product)

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
EXPLOSIVE	0.000469	0.00076	Ton/Ton

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
Diesel	.0	2571669	Ltr/A

Part-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

[A] Water

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
As per monitoring Reports	0	0	-	-	-

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/NM3) Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
NA	0	0	-	-	-

Part-D

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0.00	Ton/Y

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
35.3 Chemical sludge from waste water treatment	18.48	11.13	Ton/Y

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
OVERBURDEN	2992204	5123628	M3/Anum

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	0	0	set/month

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	Ton/Y

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
35.3 Chemical sludge from waste water treatment	11.13	Ton/Y	11.13

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
OVERBURDEN	5123628	M3/Anum	5123628

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Impact of pollution control measures	380	0.0725	348.4	352180	0.00	-68.87

Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.  
[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
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Capital Expenditure	Capital Expenditure	0
Revenue Expenditure	Revenue Expenditure	116.22

***[B] Investment Proposed for next Year***

<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
MISCELLANEOUS WORKS 2021-22	PROPOSED EXPENDITURE 2021-22	31.00

**Part-I**

***Any other particulars for improving the quality of the environment.***

***Particulars***

Attached

***Name & Designation***

Sub Area Manager (Kamptee Sub Area), WCL

***UAN No:***

MPCB-ENVIRONMENT\_STATEMENT-0000038379

***Submitted On:***

29-09-2021





# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000037747

### Submitted Date

28-09-2021

## PART A

### Company Information

#### Company Name

Patansaoungi Expansion UG Coal Mine project  
of M/s Western Coalfields Ltd., Nagpur (A  
subsidiary of Coal India Ltd, GOI-U/T MINE

#### Application UAN number

90063

#### Address

Office of the Mine Manager, Patansaoungi  
Expansion UG Coal Mine project of  
WCL, Nagpur Area

#### Plot no

47

#### Taluka

Saoner

#### Village

Patansaoungi

#### Capital Investment (In lakhs)

1915.618645

#### Scale

L.S.I

#### City

Nagpur

#### Pincode

441113

#### Person Name

Mine Manager Incharge of  
Project

#### Designation

Mine Manager, Patansaoungi Mine, Silewara Sub Area  
of WCL, Nagpur Area

#### Telephone Number

9421803453

#### Fax Number

07122643547

#### Email

patansaoniugminemanager@yahoo.com

#### Region

SRO-Nagpur I

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

BO/JD(APC) UAN NO  
90063/R/CC-142/2020 dated  
03.09.2020

#### Consent Issue Date

03.09.2020

#### Consent Valid Upto

31.03.2025

#### Establishment Year

1976

#### Date of last environment statement submitted

Sep 23 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

### Product Information

#### Product Name

Coal

#### Consent Quantity

0.3

#### Actual Quantity

0.063225

#### UOM

MT/A

### By-product Information

#### By Product Name

Nil

#### Consent Quantity

0

#### Actual Quantity

0

#### UOM

CMD

Part-B (Water & Raw Material Consumption)

<b>1) <u>Water Consumption in m3/day</u></b>			
<b>Water Consumption for Process</b>	<b>Consent Quantity in m3/day</b>	<b>Actual Quantity in m3/day</b>	
	9819.00	1270.00	
<b>Cooling</b>	0.00	0.00	
<b>Domestic</b>	7637.00	450.00	
<b>All others</b>	2183.00	750.00	
<b>Total</b>	19639.00	2470.00	

<b>2) <u>Effluent Generation in CMD / MLD</u></b>			
<b>Particulars</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Trade Effluent (Only mine discharged water-no mixing)	5000	4200	CMD
Domestic Effluent	240	270	CMD

<b>2) <u>Product Wise Process Water Consumption (cubic meter of process water per unit of product)</u></b>			
<b>Name of Products (Production)</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Coal	51610143.28	7331751.681	

<b>3) <u>Raw Material Consumption (Consumption of raw material per unit of product)</u></b>			
<b>Name of Raw Materials</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Explosive used for blasting purpose	493269.7818	588188.533	

<b>4) <u>Fuel Consumption</u></b>			
<b>Fuel Name</b>	<b>Consent quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Diesel	0	3217	Ltr/A

Part-C

<b>Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)</b>					
<b>[A] Water</b>					
<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour</b>	<b>Percentage of variation from prescribed standards with reasons</b>		
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>	<b>Standard</b>	<b>Reason</b>
As per the attached Environment Monitoring report	0	0	0	0	0
<b>[B] Air (Stack)</b>					
<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/NM3)</b>	<b>Percentage of variation from prescribed standards with reasons</b>		
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>	<b>Standard</b>	<b>Reason</b>
Not applicable	0	0	Not applicable	Not applicable	Not applicable

Part-D

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	CMD

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	CMD

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	0	0	CMD

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	0	0	CMD

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	CMD

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
0	0	CMD	Not applicable

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
NA	0	CMD	Not applicable

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Impact of the pollution Control measures taken	15736.36	-0.006767	-2933.1	-405585	0	2.24

Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.

[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Capital Investment	Implementation of the Air and water pollution Control Measures	0

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Capital Investment	Implementation of the Air and water pollution Control Measures	20.00

Part-I

Any other particulars for improving the quality of the environment.

Particulars

Mine Manager

Name & Designation

Mine Manager, Patansaoungi Mine , Silewara Sub Area,WCL,Nagpur Area

UAN No:

MPCB-ENVIRONMENT\_STATEMENT-0000037747

Submitted On:

28-09-2021



# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000037763

### Submitted Date

28-09-2021

## PART A

### Company Information

#### Company Name

Pipla underground coal mine project of M/s Western Coalfields Ltd .(A subsidiary of Coal India Ltd, GOI-U/T MINE

#### Application UAN number

0

#### Address

Office of the Silewara Sub Area Manager, Silewara Sub Area of WCL,Nagpur Area

#### Plot no

Walni Mouza 1 (134,135)

#### Taluka

Saoner

#### Village

Walni

#### Capital Investment (In lakhs)

1243

#### Scale

L.S.I

#### City

Nagpur

#### Pincode

441402

#### Person Name

Mine Manager Incharge of Project

#### Designation

Mine Manager

#### Telephone Number

7972405939

#### Fax Number

07103268128

#### Email

piplaugminemanager@yahoo.com

#### Region

SRO-Nagpur I

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

BO/JD(APC) EIC  
NONG-3362-10/R/CC-750

#### Consent Issue Date

11.01.2013

#### Consent Valid Upto

30.06.2014, Fresh application for renewal was applied upto 30.06.2017-but mine is not in production

#### Establishment Year

2013

#### Date of last environment statement submitted

Sep 23 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

### Product Information

#### Product Name

Coal

#### Consent Quantity

0.25

#### Actual Quantity

0

#### UOM

CMD

### By-product Information

#### By Product Name

Nil

#### Consent Quantity

0.25

#### Actual Quantity

0

#### UOM

Part-B (Water & Raw Material Consumption)

<b><u>1) Water Consumption in m3/day</u></b>		
<b>Water Consumption for Process</b>	<b>Consent Quantity in m3/day</b>	<b>Actual Quantity in m3/day</b>
	0.00	0.00
<b>Cooling</b>	0.00	0.00
<b>Domestic</b>	0.00	0.00
<b>All others</b>	0.00	0.00
<b>Total</b>	0.00	0.00

<b><u>2) Effluent Generation in CMD / MLD</u></b>			
<b>Particulars</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Trade Effluent (Only mine discharged water-no mixing)	0	0	CMD

<b><u>2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)</u></b>			
<b>Name of Products (Production)</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Coal	0	0	

<b><u>3) Raw Material Consumption (Consumption of raw material per unit of product)</u></b>			
<b>Name of Raw Materials</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Explosive used for blasting purpose	0	0	CMD

<b><u>4) Fuel Consumption</u></b>			
<b>Fuel Name</b>	<b>Consent quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Diesel	0	0	

Part-C

<b><u>Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)</u></b>					
<b><u>[A] Water</u></b>					
<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour</b>	<b>Percentage of variation from prescribed standards with reasons</b>	<b>Standard</b>	<b>Reason</b>
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>		
Monitoring report enclosed	0	0	-	-	-

<b><u>[B] Air (Stack)</u></b>					
<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/NM3)</b>	<b>Percentage of variation from prescribed standards with reasons</b>	<b>Standard</b>	<b>Reason</b>
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>		
Not Applicable	0	0	Nil	Nil	Nil

Part-D

<b><u>HAZARDOUS WASTES</u></b>			
<b><u>1) From Process</u></b>			
<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>

0 0 0

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	CMD

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	0	0	CMD

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	0	0	NM3/MT

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	CMD

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
0	0		NA

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
NA	0	NM3/MT	NA

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Mine is abounded since 26.08.2016	-545	0	0	0	0	0

Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.		
[A] Investment made during the period of Environmental Statement		
Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)

Capital Investment	Implementation of the Air and water pollution Control Measures	0
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<b><u>[B] Investment Proposed for next Year</u></b>		
<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
Capital Investment	Implementation of the Air and water pollution Control Measures	0

Part-I

**Any other particulars for improving the quality of the environment.**

**Particulars**

Mine is abandended since 26.08.2020- notice of discontinuance of mine submitted with AMP

**Name & Designation**

Sub Area Manager, Silewara Sub Area, WCL-Nagpur Area

**UAN No:**

MPCB-ENVIRONMENT\_STATEMENT-0000037763

**Submitted On:**

28-09-2021





# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000037755

### Submitted Date

28-09-2021

## PART A

### Company Information

#### Company Name

Saoner Underground Coal Mine of M/s  
Western Coal fields Limited ,(A subsidiary of  
Coal india Limited, GOI-U/T

#### Application UAN number

MPCB-CONSENT - 0000056629

#### Address

Office of the Sub Area Manager, Saoner  
Underground Coal Mine, Saoner Sub Area,  
WCL - Nagpur Area

#### Plot no

0105(OLD)/74-75(New) Waghoda Gram  
Panchayat

#### Taluka

Saoner

#### Village

Borgaon

#### Capital Investment (In lakhs)

10438.1418566

#### Scale

L.S.I

#### City

Nagpur

#### Pincode

441107

#### Person Name

R.B Thakre

#### Designation

Dy. GM(Mining)

#### Telephone Number

9881010881

#### Fax Number

07122643547

#### Email

saonerugminemanager@yahoo.com

#### Region

SRO-Nagpur I

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

Formate1.0/CAC/UAN  
NO.0000056629/CR-2003000146 Date:  
03.03.2020

#### Consent Issue Date

2020-03-03

#### Consent Valid Upto

2021-03-31

#### Establishment Year

1986

#### Date of last environment statement submitted

Sep 23 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

### Product Information

#### Product Name

Coal

#### Consent Quantity

2

#### Actual Quantity

0.544245

#### UOM

MT/A

### By-product Information

#### By Product Name

Nil

#### Consent Quantity

0

#### Actual Quantity

0

#### UOM

Part-B (Water & Raw Material Consumption)

<u>1) Water Consumption in m3/day</u>		
Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
	5437	8100.00
Cooling	0	0.00
Domestic	800	437.00
All others	1700	0.00
Total	7937	8537.00

<u>2) Effluent Generation in CMD / MLD</u>			
Particulars	Consent Quantity	Actual Quantity	UOM
Trade Effluent	10245	7019	CMD
Domestic Effluent	500	281.22	CMD

<u>2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)</u>			
Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
Coal	3015143.455	5432296.117	

<u>3) Raw Material Consumption (Consumption of raw material per unit of product)</u>			
Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
Explosive used for blasting purpose	493726.5686	470592.1414	

<u>4) Fuel Consumption</u>			
Fuel Name	Consent quantity	Actual Quantity	UOM
Diesel	0	9861	Ltr/A

Part-C

<u>Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)</u>					
<u>[A] Water</u>					
Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour	Percentage of variation from prescribed standards with reasons		
	Quantity	Concentration	%variation	Standard	Reason
Environment Monitoring report uploaded	0	0	uploaded	uploaded	uploaded

<u>[B] Air (Stack)</u>					
Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/NM3)	Percentage of variation from prescribed standards with reasons		
	Quantity	Concentration	%variation	Standard	Reason
Not applicable	0	0	Not applicable	Not applicable	Not applicable

Part-D

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	CMD

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	CMD

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Not applicable	0	0	M3/Anum

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Not applicable	0	0	CMD

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	CMD

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
0	0	CMD	Not applicable

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Not applicable	0	CMD	Not applicable

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Impact of the Pollution Control Measures	-3131.7	-0.006477	42724.41	107386	0	-35.67

Part-H

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***Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.***

***[A] Investment made during the period of Environmental Statement***

<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
Capital Expenditure	Implementation of the Air and water pollution Control Measures	0

---

***[B] Investment Proposed for next Year***

<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
Capital Expenditure	Implementation of the Air and water pollution Control Measures	24.00

Part-I

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***Any other particulars for improving the quality of the environment.***

***Particulars***

Tree Plantation ,1. Construction of DETP for colony 2.Supply & installation of fabricated Biodigester toilet with tank at Eco park.3.Mist spray arrangement along railway track at ECO park.4.Ladies & gents bio-digester toilets to diff. places at Saoner SA

***Name & Designation***

Rajendra B. Thakre, Dy GM (Min)/Sub Area Manager,Saoner Sub Area, WCL-Nagpur Area

***UAN No:***

MPCB-ENVIRONMENT\_STATEMENT-0000037755

***Submitted On:***

28-09-2021



# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000037771

### Submitted Date

28-09-2021

## PART A

### Company Information

#### Company Name

Silewara UG Coal Mines Project of M/s  
Western Coalfields Ltd. ( A subsidiary of  
Coal India Ltd, Gol-U/T

#### Application UAN number

0000067299

#### Address

Office of the Sub Area Manager, Silewara  
UG Coal Mines, Post Silewara, Tehsil Saoner  
Distt Nagpur

#### Plot no

161

#### Taluka

Saoner

#### Village

Silewara

#### Capital Investment (In lakhs)

1463.0836727

#### Scale

L.S.I

#### City

Nagpur

#### Pincode

441113

#### Person Name

Mine Manager/ Incharge of Project

#### Designation

Mine Manager, Silewara UG Mine

#### Telephone Number

9425833779

#### Fax Number

07103268128

#### Email

bchoudhury@westerncoal.gov.in

#### Region

SRO-Nagpur I

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

BO/JD(APC)/UAN  
No.67299/R/CC-1910000011

#### Consent Issue Date

01.10.2019

#### Consent Valid Upto

2022-03-31

#### Establishment Year

1967

#### Date of last environment statement submitted

Sep 23 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

### Product Information

#### Product Name

COAL

#### Consent Quantity

0.55

#### Actual Quantity

0.097105

#### UOM

MT/A

### By-product Information

#### By Product Name

No by product generated during coal mining as it is a Underground Coal Mine

#### Consent Quantity

0

#### Actual Quantity

0

#### UOM

Part-B (Water & Raw Material Consumption)

<b>1) Water Consumption in m3/day</b>		
<b>Water Consumption for Process</b>	<b>Consent Quantity in m3/day</b>	<b>Actual Quantity in m3/day</b>
	5780.00	5450.00
<b>Cooling</b>	0.00	0.00
<b>Domestic</b>	2250.00	2250.00
<b>All others</b>	5730.00	0.00
<b>Total</b>	13760.00	7700.00

<b>2) Effluent Generation in CMD / MLD</b>			
<b>Particulars</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Trade Effluent (Only mine discharged water-no mixing)	3320	300	CMD
Domestic Effluent	1350	1350	CMD

<b>2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)</b>			
<b>Name of Products (Production)</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Coal	1276250.611	20485556.8714	

<b>3) Raw Material Consumption (Consumption of raw material per unit of product)</b>			
<b>Name of Raw Materials</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Explosive used for blasting purposos	316128.7694	338046.44457031	

<b>4) Fuel Consumption</b>			
<b>Fuel Name</b>	<b>Consent quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Diesel	0	5875	Ltr/A

Part-C

<b>Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)</b>					
<b>[A] Water</b>					
<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour</b>	<b>Percentage of variation from prescribed standards with reasons</b>		
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>	<b>Standard</b>	<b>Reason</b>
Air & Water quality monitoring report uploaded	0	0	-	-	-

<b>[B] Air (Stack)</b>					
<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/NM3)</b>	<b>Percentage of variation from prescribed standards with reasons</b>		
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>	<b>Standard</b>	<b>Reason</b>
Not Applicable	0	0	-	-	-

Part-D

## HAZARDOUS WASTES

### 1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	CMD

### 2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	CMD

## Part-E

## SOLID WASTES

### 1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	0	0	CMD

### 2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	0	0	CMD
NA	0	0	CMD

### 3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	CMD

## Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

### 1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
0	0	CMD	0

### 2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
NA	0	CMD	0

## Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Impact of the pollution Control measures taken	15610.63	-0.012129	5963	489820	0	-39.04

Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.

[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Capital Expenditure	Implementation of Air and water Pollution Control Measures	0

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Capital Expenditure	Implementation of Air and water Pollution Control Measures	14

Part-I

Any other particulars for improving the quality of the environment.

Particulars

Yes, we are going for Supply & installation of fabricated Biodigester toilet with tank at office and Renovation of entire (old) sewerage system of chankapur colony with Biodigester system under Silewara S

Name & Designation

Mine Manager, Silewara UG Mine

UAN No:

MPCB-ENVIRONMENT\_STATEMENT-0000037771

Submitted On:

28-09-2021





# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000039119

### Submitted Date

30-09-2021

## PART A

### Company Information

#### Company Name

Singhori Opencast Coal Mine of M/s Western Coal fields Limited, (A subsidiary of Coal India LtdGovt. of India Undertaking

#### Application UAN number

MPCB-CONSENT-0000085095

#### Address

Office of the Sub Area Manager,Bhanegaon  
Singhori Sub Area, WCL Nagpur Area

#### Plot no

Topo Sheet No 55-O/3, Village Singhori

#### Taluka

Parsoni

#### Village

Coal Mining Area in Maharashtra

#### Capital Investment (In lakhs)

10073.91328

#### Scale

L.S.I

#### City

Nagpur

#### Pincode

441105

#### Person Name

Deepak Walke

#### Designation

Manager of the Singhori OC Mine

#### Telephone Number

7122643547

#### Fax Number

07122643547

#### Email

cilsambssa@gmail.com

#### Region

SRO-Nagpur I

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

MPCB-CONSENT-0000085095/CO-20070000/2

#### Consent Issue Date

2020-07-01

#### Consent Valid Upto

2021-03-31

#### Establishment Year

2018

#### Date of last environment statement submitted

Sep 23 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

### Product Information

#### Product Name

COAL

#### Consent Quantity

1.12

#### Actual Quantity

1.119991

#### UOM

MT/A

### By-product Information

#### By Product Name

NA

#### Consent Quantity

0

#### Actual Quantity

0

#### UOM

CMD

## Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
	296.00	275.00
Cooling	0.00	0.00
Domestic	50.00	30.00
All others	275.00	0.00
Total	621.00	305.00

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Trade effluent	2964	4495	CMD
domestic effluent	20	18	CMD

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
Minerals	89686.67964	89621.25589	

3) Raw Material Consumption (Consumption of raw material per unit of product)

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
Explosive used for blasting purpose	1490355.387	1390696.8	

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
Diesel	0	134750	Ltr/A

Part-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

[A] Water

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
Environment Monitoring reports uploaded	0	0	0	0	0

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/NM3) Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
Not applicable on Coal mines	0	0	Not applicable on Coal mines	Not applicable on Coal mines	Not applicable on Coal mines

Part-D

HAZARDOUS WASTES

**1) From Process**

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
0	0	0	CMD

**2) From Pollution Control Facilities**

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
0	0	0	

**Part-E****SOLID WASTES****1) From Process**

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
Overburden (soil)	4071000	3421816	M3/Anum

**2) From Pollution Control Facilities**

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
Not applicable	0	0	MVA

**3) Quantity Recycled or Re-utilized within the unit**

<b>Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
0	0	0	CMD

**Part-F**

**Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.**

**1) Hazardous Waste**

<b>Type of Hazardous Waste Generated</b>	<b>Qty of Hazardous Waste</b>	<b>UOM</b>	<b>Concentration of Hazardous Waste</b>
0	0		0

**2) Solid Waste**

<b>Type of Solid Waste Generated</b>	<b>Qty of Solid Waste</b>	<b>UOM</b>	<b>Concentration of Solid Waste</b>
Overburden	3421816	Ltr/Hr	Soil

**Part-G**

**Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.**

<b>Description</b>	<b>Reduction in Water Consumption (M3/day)</b>	<b>Reduction in Fuel &amp; Solvent Consumption (KL/day)</b>	<b>Reduction in Raw Material (Kg)</b>	<b>Reduction in Power Consumption (KWH)</b>	<b>Capital Investment(in Lacs)</b>	<b>Reduction in Maintenance(in Lacs)</b>
Impact of the pollution Control measures taken	-30	-0.09991	110399.1	-1320338	0.7	-31.25

**Part-H**

**Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.**  
**[A] Investment made during the period of Environmental Statement**

<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
Capital Expenditure	Implementation of the Air and water pollution Control Measures	0

***[B] Investment Proposed for next Year***

<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
Capital Expenditure	Implementation of the Air and water pollution Control Measures	94.23

**Part-I**

***Any other particulars for improving the quality of the environment.***

***Particulars***

Mine Manager of Singhori OC Project

***Name & Designation***

Deepak Walke, Project /Mine Manager, Singhori OC Expansion project under Bhanegaon Singhori Sub Area of WCL, Nagpur Area

***UAN No:***

MPCB-ENVIRONMENT\_STATEMENT-0000039119

***Submitted On:***

30-09-2021



# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000037477

### Submitted Date

28-09-2021

## PART A

### Company Information

#### Company Name

M/s. Western Coalfields Limited, Dinesh  
Opencast Mine

#### Application UAN number

MPCB-CONSENT-0000062939

#### Address

Makardhokra Sub Area Manager, WCL,  
Umrer Area, Hevati, Tal: Umred, Dist:  
Nagpur

#### Plot no

Toposheet no. 55 P/5 of Survey of India

#### Taluka

Umred

#### Village

Hevati

#### Capital Investment (In lakhs)

51907.00

#### Scale

L.S.I

#### City

Nagpur

#### Pincode

441204

#### Person Name

P. H. Nimbalkar

#### Designation

Sub Area Manager

#### Telephone Number

9421706658

#### Fax Number

07116247374

#### Email

sammkd3umrer@gmail.com

#### Region

SRO-Nagpur II

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

Format 1.0/CAC/UAN  
No.0000062939/CO-2002001040

#### Consent Issue Date

25/02/2020

#### Consent Valid Upto

31/03/2021

#### Establishment Year

2016

#### Date of last environment statement submitted

Sep 28 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

### Product Information

#### Product Name

Coal

#### Consent Quantity

4.20

#### Actual Quantity

2.413

#### UOM

MT/A

### By-product Information

#### By Product Name

NA

#### Consent Quantity

0

#### Actual Quantity

0

#### UOM

MT/A

Part-B (Water & Raw Material Consumption)

<b><u>1) Water Consumption in m3/day</u></b>		
<b>Water Consumption for Process</b>	<b>Consent Quantity in m3/day</b>	<b>Actual Quantity in m3/day</b>
	1000.00	650.00
<b>Cooling</b>	0.00	0.00
<b>Domestic</b>	350.00	61.20
<b>All others</b>	0.00	0.00
<b>Total</b>	1350.00	711.20

<b><u>2) Effluent Generation in CMD / MLD</u></b>			
<b>Particulars</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Mine Discharge	2850	2822	CMD

<b><u>2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)</u></b>			
<b>Name of Products (Production)</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Coal (Cubic meter/ tonne)	0.057	0.098	CMD

<b><u>3) Raw Material Consumption (Consumption of raw material per unit of product)</u></b>			
<b>Name of Raw Materials</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Explosive (Kg/ tonne)	1.68	2.307	CMD

<b><u>4) Fuel Consumption</u></b>			
<b>Fuel Name</b>	<b>Consent quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
--NA--	0	0	CMD

Part-C

<b><u>Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)</u></b>					
<b><u>[A] Water</u></b>					
<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour</b>	<b>Percentage of variation from prescribed standards with reasons</b>	<b>Standard</b>	<b>Reason</b>
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>		
Report Enclosed	0	0	0	0	0

<b><u>[B] Air (Stack)</u></b>					
<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/NM3)</b>	<b>Percentage of variation from prescribed standards with reasons</b>	<b>Standard</b>	<b>Reason</b>
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>		
Not Applicable	0	0	0	0	0

Part-D

<b><u>HAZARDOUS WASTES</u></b>			
<b><u>1) From Process</u></b>			
<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
0	0	0	CMD

## 2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.1 Used or spent oil	3.01	3.709	KL/A
34.2 Sludge from treatment of waste water arising out of cleaning / disposal of barrels / containers	13.02	34.90	Ton/Y

## Part-E

### SOLID WASTES

#### 1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Over Burden	15462924	11783870	M3/Anum

#### 2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	0	0	CMD

#### 3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	CMD

## Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

#### 1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
5.1 Used or spent oil	3.709	KL/A	Sold to authorized recycler
35.3 Chemical sludge from waste water treatment	34.90	Ton/Y	Disposed by MEPL, Butibori

#### 2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Over Burden	11783870	M3/Anum	OB Dumps

## Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
-	0	0	0	0	0	0

## Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.  
[A] Investment made during the period of Environmental Statement

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
Capital Expenditure	Environmental Protection Measures	0
Revenue Expenditure	Plantation, Dust suppression and Monitoring	56.33

**[B] Investment Proposed for next Year**

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
Proposed Capital Budget	Dust suppression and monitoring	99.94
Proposed Revenue Budget	Plantation, Dust suppression and Monitoring	70.5

**Part-I**

**Any other particulars for improving the quality of the environment.**

**Particulars**

-

**Name & Designation**

P. H. Nimbalkar, Sub Area Manager, Makardhokra Sub Area

**UAN No:**

MPCB-ENVIRONMENT\_STATEMENT-0000037477

**Submitted On:**

28-09-2021





# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000037902

### Submitted Date

29-09-2021

## PART A

### Company Information

#### Company Name

Western Coal Fields Ltd, Gokul Opencast Mine

#### Application UAN number

MPCB-CONSENT-0000043038

#### Address

Gokul Opencast Mine, 40 A, Piraya, Tal: Bhiwapur, Dist: Nagpur

#### Plot no

-

#### Taluka

Bhiwapur

#### Village

Piraya

#### Capital Investment (In lakhs)

24893

#### Scale

LSI

#### City

NAGPUR

#### Pincode

441201

#### Person Name

Pankaj Kumar

#### Designation

Sub Area Manager

#### Telephone Number

9579073457

#### Fax Number

07116247374

#### Email

samgokuloc@gmail.com

#### Region

SRO-Nagpur II

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

FORMAT 1.0/BO/CAC-Cell/CAC-UAN No.43038/CAC-1901000314

#### Consent Issue Date

05/01/19

#### Consent Valid Upto

31/08/21

#### Establishment Year

2015

#### Date of last environment statement submitted

Sep 28 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

### Product Information

#### Product Name

Coal

#### Consent Quantity

1.875

#### Actual Quantity

1.875

#### UOM

MT/A

### By-product Information

#### By Product Name

NA

#### Consent Quantity

0

#### Actual Quantity

0

#### UOM

CMD

## Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
	270.00	250.00
Cooling	0.00	0.00
Domestic	93.00	34.05
All others	0.00	0.00
Total	363.00	284.05

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Mine Discharge	2430	2430	CMD

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
Coal (Cubic meter/ tonne)	0.086	0.049	CMD

3) Raw Material Consumption (Consumption of raw material per unit of product)

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
Explosive (Kg/ tonne)	4.65	2.36	CMD

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
-	0	0	CMD

Part-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

[A] Water

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
Report Enclosed	0	0	0	0	0

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/NM3) Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
Not Applicable	0	0	0	0	0

Part-D

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	CMD

**2) From Pollution Control Facilities**

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
5.1 Used or spent oil	6.05	6.3	KL/A
35.3 Chemical sludge from waste water treatment	15.47	34.86	Ton/Y

**Part-E****SOLID WASTES****1) From Process**

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
Over Burden	15028997	8351432	M3/Anum

**2) From Pollution Control Facilities**

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
-	0	0	CMD

**3) Quantity Recycled or Re-utilized within the unit**

<b>Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
0	0	0	CMD

**Part-F**

**Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.**

**1) Hazardous Waste**

<b>Type of Hazardous Waste Generated</b>	<b>Qty of Hazardous Waste</b>	<b>UOM</b>	<b>Concentration of Hazardous Waste</b>
5.1 Used or spent oil	6.3	KL/A	Sold to authorized recycler
35.3 Chemical sludge from waste water treatment	34.86	Ton/Y	Disposed by MEPL, Butibori

**2) Solid Waste**

<b>Type of Solid Waste Generated</b>	<b>Qty of Solid Waste</b>	<b>UOM</b>	<b>Concentration of Solid Waste</b>
Over Burden	8351432	M3/Anum	OB dump site

**Part-G**

**Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.**

<b>Description</b>	<b>Reduction in Water Consumption (M3/day)</b>	<b>Reduction in Fuel &amp; Solvent Consumption (KL/day)</b>	<b>Reduction in Raw Material (Kg)</b>	<b>Reduction in Power Consumption (KWH)</b>	<b>Capital Investment(in Lacs)</b>	<b>Reduction in Maintenance(in Lacs)</b>
-	0	0	0	0	0	0

**Part-H**

**Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.**  
**[A] Investment made during the period of Environmental Statement**

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
Capital Expenditure	Environmental Protection Measures	0
Revenue Expenditure	Plantation, Dust Suppression and Monitoring	41.15

**[B] Investment Proposed for next Year**

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
Proposed Capital Budget	Environmental Protection Measures	11
Proposed Revenue Budget	Plantation, Dust Suppression and Monitoring	78.5

**Part-I**

**Any other particulars for improving the quality of the environment.**

**Particulars**

-

**Name & Designation**

Pankaj Kumar, Sub Area Manager, Murpar Sub Area

**UAN No:**

MPCB-ENVIRONMENT\_STATEMENT-0000037902

**Submitted On:**

29-09-2021



# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000038047

### Submitted Date

29-09-2021

## PART A

### Company Information

#### Company Name

M/s. Western Coalfields Limited, Makardhokda-I  
Opencast Mine

#### Application UAN number

MPCB-CONSENT-0000024388

#### Address

Sub Area Manager, MKD-I OC Mine, Location:  
Near Shirpur village, Revenue survey No. 22,  
Topo Sheet No. 55-P/1 & 55-P/5, P.O: Umrer  
Project, Tehsil: Umrer, Distt: Nagpur, Pin  
441204, Maharashtra.

#### Plot no

-

#### Taluka

Umrer

#### Village

Shirpur

#### Capital Investment (In lakhs)

19148.00

#### Scale

LSI

#### City

Nagpur

#### Pincode

441204

#### Person Name

P. H. Nimbalkar

#### Designation

Sub Area Manager

#### Telephone Number

9421706658

#### Fax Number

07116247374

#### Email

sammkdumrer@gmail.com

#### Region

SRO-Nagpur II

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

Format 1.0/BO/CAC-CELL/CAC-UAN  
No.24388/CC-1901000356

#### Consent Issue Date

05/01/19

#### Consent Valid Upto

31/03/21

#### Establishment Year

2014

#### Date of last environment statement submitted

Sep 26 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

### Product Information

#### Product Name

Coal

#### Consent Quantity

2.0

#### Actual Quantity

1.99

#### UOM

MT/A

### By-product Information

#### By Product Name

NA

#### Consent Quantity

0

#### Actual Quantity

0

#### UOM

CMD

Part-B (Water & Raw Material Consumption)

<b><u>1) Water Consumption in m3/day</u></b>		
<b>Water Consumption for Process</b>	<b>Consent Quantity in m3/day</b>	<b>Actual Quantity in m3/day</b>
	470.00	470.00
<b>Cooling</b>	0.00	0.00
<b>Domestic</b>	10.00	10.00
<b>All others</b>	0.00	0.00
<b>Total</b>	480.00	480.00

<b><u>2) Effluent Generation in CMD / MLD</u></b>			
<b>Particulars</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Mine discharge	2268	2268	CMD

<b><u>2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)</u></b>			
<b>Name of Products (Production)</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Coal (Cubic meter/tonne)	0.086	0.086	CMD

<b><u>3) Raw Material Consumption (Consumption of raw material per unit of product)</u></b>			
<b>Name of Raw Materials</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Explosive (Kg/tonne)	2.75	2.48	CMD

<b><u>4) Fuel Consumption</u></b>			
<b>Fuel Name</b>	<b>Consent quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
-	0	0	CMD

Part-C

<b><u>Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)</u></b>					
<b><u>[A] Water</u></b>					
<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour</b>	<b>Percentage of variation from prescribed standards with reasons</b>	<b>Standard</b>	<b>Reason</b>
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>		
Report enclosed	0	0	0	0	0

<b><u>[B] Air (Stack)</u></b>					
<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/NM3)</b>	<b>Percentage of variation from prescribed standards with reasons</b>	<b>Standard</b>	<b>Reason</b>
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>		
Not Applicable	0	0	0	0	0

Part-D

<b><u>HAZARDOUS WASTES</u></b>			
<b><u>1) From Process</u></b>			
<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
0	0	0	CMD

**2) From Pollution Control Facilities**

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
5.1 Used or spent oil	11.26	8.242	KL/A
35.3 Chemical sludge from waste water treatment	0.504	27.13	Ton/Y

**Part-E**

**SOLID WASTES**

**1) From Process**

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
Over Burden	11554329	16174959	M3/Anum

**2) From Pollution Control Facilities**

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
-	0	0	CMD

**3) Quantity Recycled or Re-utilized within the unit**

<b>Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
0	0	0	CMD

**Part-F**

**Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.**

**1) Hazardous Waste**

<b>Type of Hazardous Waste Generated</b>	<b>Qty of Hazardous Waste</b>	<b>UOM</b>	<b>Concentration of Hazardous Waste</b>
5.1 Used or spent oil	8.242	KL/A	Sold to authorized recycler
35.3 Chemical sludge from waste water treatment	27.13	Ton/Y	Disposed by MEPL, Butibori

**2) Solid Waste**

<b>Type of Solid Waste Generated</b>	<b>Qty of Solid Waste</b>	<b>UOM</b>	<b>Concentration of Solid Waste</b>
Over Burden	16174959	M3/Anum	OB dump

**Part-G**

**Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.**

<b>Description</b>	<b>Reduction in Water Consumption (M3/day)</b>	<b>Reduction in Fuel &amp; Solvent Consumption (KL/day)</b>	<b>Reduction in Raw Material (Kg)</b>	<b>Reduction in Power Consumption (KWH)</b>	<b>Capital Investment(in Lacs)</b>	<b>Reduction in Maintenance(in Lacs)</b>
-	0	0	0	0	0	0

**Part-H**

**Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.**  
**[A] Investment made during the period of Environmental Statement**

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
Capital Expenditure	Environmental Protection Measures	0
Revenue Expenditure	Plantation, Dust Suppression and Monitoring	20.29

**[B] Investment Proposed for next Year**

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
Proposed Capital Budget	Environmental Protection Measures	40
Proposed Revenue budget	Plantation, Dust Suppression and Monitoring	46.5

**Part-I**

**Any other particulars for improving the quality of the environment.**

**Particulars**

-

**Name & Designation**

P. H. Nimbalkar, Sub Area Manager

**UAN No:**

MPCB-ENVIRONMENT\_STATEMENT-0000038047

**Submitted On:**

29-09-2021





# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000037279

### Submitted Date

27-09-2021

## PART A

### Company Information

#### Company Name

M/s Western Coal Fields Ltd., Murpar  
Underground Mine Project

#### Application UAN number

MPCB-CONSENT-0000082233

#### Address

Sub Area Manager, Murpar UG Mine, WCL Umrer  
Area, Post: Khadasangi, Tehsil: Chimur, Dist.  
Chandrapur, Maharashtra

#### Plot no

-

#### Taluka

Chimur

#### Village

Khadasangi

#### Capital Investment (In lakhs)

2746.00

#### Scale

LSI

#### City

Chimur

#### Pincode

442908

#### Person Name

Pankaj Kumar

#### Designation

Sub Area Manager

#### Telephone Number

9579073457

#### Fax Number

07116247374

#### Email

sammurparug@gmail.com

#### Region

SRO-Chandrapur

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

BO/JD(APC)/TB-2UAN No.82233/R/CC-791

#### Consent Issue Date

24.08.2020

#### Consent Valid Upto

31.12.2021

#### Establishment Year

1992

#### Date of last environment statement submitted

Sep 28 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

### Product Information

#### Product Name

Coal

#### Consent Quantity

0.27

#### Actual Quantity

0.0528

#### UOM

MT/A

### By-product Information

#### By Product Name

NA

#### Consent Quantity

0

#### Actual Quantity

0

#### UOM

CMD

## Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
	60.00	60.00
Cooling	0.00	0.00
Domestic	90.00	90.00
All others	0.00	0.00
Total	150.00	150.00

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Mine Discharge	9214	9214	CMD

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
Coal (Cubic meter/tonne)	0.39	0.41	CMD

3) Raw Material Consumption (Consumption of raw material per unit of product)

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
Explosive(Kg/tonne)	0.55	0.54	CMD

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
NA	0	0	CMD

Part-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

[A] Water

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
Report Enclosed	0	0	0	0	0

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/NM3) Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
Not Applicable	0	0	0	0	0

Part-D

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	CMD

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	CMD

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	0	0	CMD

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	0	0	CMD

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	CMD

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
0	0	CMD	0

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
NA	0	CMD	0

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
-	0	0	0	0	0	0

Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.

[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Capital Expenditure	Environmental Protection Measures	0
Revenue Expenditure	Dust Suppression and Monitoring	1.5

---

**[B] Investment Proposed for next Year**

<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
Proposed Capital Budget	Dust Suppression and Monitoring	99.94
Proposed Revenue Budget	Plantation, Dust Suppression and Monitoring	20.5

**Part-I**

---

**Any other particulars for improving the quality of the environment.**

**Particulars**

-

**Name & Designation**  
Pankaj Kumar, Sub Area Manager, Murpar Sub Area

**UAN No:**  
MPCB-ENVIRONMENT\_STATEMENT-0000037279

**Submitted On:**  
27-09-2021



# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000037955

### Submitted Date

29-09-2021

## PART A

### Company Information

#### Company Name

M/s. Western Coalfields Limited, Umrer Opencast Mine

#### Application UAN number

MPCB-CONSENT-0000077525

#### Address

Sub Area Manager, Umrer OC Mine, Near village WayagaonGhoturli, P.O. Umrer Project, Tehsil: Umred, Dist. Nagpur, Pin 441204, Maharashtra.

#### Plot no

-

#### Taluka

Umred

#### Village

Shirpur

#### Capital Investment (In lakhs)

35412.00

#### Scale

LSI

#### City

Nagpur

#### Pincode

441204

#### Person Name

P H Nimbalkar

#### Designation

Sub Area Manager

#### Telephone Number

9421706658

#### Fax Number

07116247374

#### Email

samumreroc@gmail.com

#### Region

SRO-Nagpur II

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

Format 1.0/BO/CAC-Cell/CAC-UAN  
no.65263/CAC-1910000121

#### Consent Issue Date

03/10/2019

#### Consent Valid Upto

31/03/2021

#### Establishment Year

1963

#### Date of last environment statement submitted

Sep 26 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

### Product Information

#### Product Name

Coal

#### Consent Quantity

4.90

#### Actual Quantity

3.401

#### UOM

MT/A

### By-product Information

#### By Product Name

NA

#### Consent Quantity

0

#### Actual Quantity

0

#### UOM

CMD

Part-B (Water & Raw Material Consumption)

<b><u>1) Water Consumption in m3/day</u></b>		
<b>Water Consumption for Process</b>	<b>Consent Quantity in m3/day</b>	<b>Actual Quantity in m3/day</b>
	700.00	700.00
<b>Cooling</b>	0.00	0.00
<b>Domestic</b>	726.00	726.00
<b>All others</b>	0.00	0.00
<b>Total</b>	1426.00	1426.00

<b><u>2) Effluent Generation in CMD / MLD</u></b>			
<b>Particulars</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Mine Discharge	2650	2646	CMD

<b><u>2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)</u></b>			
<b>Name of Products (Production)</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Coal(Cubic meter/Tone)	0.045	0.075	CMD

<b><u>3) Raw Material Consumption (Consumption of raw material per unit of product)</u></b>			
<b>Name of Raw Materials</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Explosive(Kg/Tonne)	0.484	0.332	CMD

<b><u>4) Fuel Consumption</u></b>			
<b>Fuel Name</b>	<b>Consent quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
-	0	0	CMD

Part-C

<b><u>Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)</u></b>					
<b><u>[A] Water</u></b>					
<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour</b>	<b>Percentage of variation from prescribed standards with reasons</b>	<b>Standard</b>	<b>Reason</b>
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>		
Report Enclosed	0	0	0	0	0

<b><u>[B] Air (Stack)</u></b>					
<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/NM3)</b>	<b>Percentage of variation from prescribed standards with reasons</b>	<b>Standard</b>	<b>Reason</b>
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>		
Not Applicable	0	0	0	0	0

Part-D

<b><u>HAZARDOUS WASTES</u></b>			
<b><u>1) From Process</u></b>			
<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
0	0	0	CMD

## 2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.1 Used or spent oil	1.82	17.82	KL/A
35.3 Chemical sludge from waste water treatment	27.76	38.96	Ton/Y

## Part-E

### SOLID WASTES

#### 1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Overburden	4849433	3767904	M3/Anum

#### 2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
-	0	0	CMD

#### 3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	CMD

## Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

#### 1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
5.1 Used or spent oil	17.82	KL/A	Sold to authorized recycler
35.3 Chemical sludge from waste water treatment	38.96	Ton/Y	Disposed at CHWTSDf

#### 2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Over Burden	3767904	M3/Anum	Onsite OB dump (Back filling)

## Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
-	0	0	0	0	0	0

## Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.  
[A] Investment made during the period of Environmental Statement

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
Capital Expenditure	Environmental Works	0
Revenue Expenditure	Plantation and Dust suppression	55.07

**[B] Investment Proposed for next Year**

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
Proposed Capital Budget	Environmental works	10
Proposed Revenue Budget	Plantation and Dust suppression	137.5

**Part-I**

**Any other particulars for improving the quality of the environment.**

**Particulars**

-

**Name & Designation**

P. H. Nimbalkar, Sub Area Manager

**UAN No:**

MPCB-ENVIRONMENT\_STATEMENT-0000037955

**Submitted On:**

29-09-2021





# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000037232

### Submitted Date

27-09-2021

## PART A

### Company Information

#### Company Name

Ghugus Opencast Mine, Western  
Coalfields Limited

#### Application UAN number

MPCB-CONSENT-0000022317

#### Address

M/s Western Coalfields Ltd., Ghugus  
Sub Area, P.O Ghugus

#### Plot no

-

#### Taluka

Ghugus

#### Village

Ghugus

#### Capital Investment (In lakhs)

13698.16889

#### Scale

L.S.I

#### City

Chandrapur

#### Pincode

442505

#### Person Name

Shri. Omprakash Fulare

#### Designation

Ghugus Sub Area

#### Telephone Number

9424666269

#### Fax Number

07172275740

#### Email

waniarea.environdept@gmail.com

#### Region

SRO-Chandrapur

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

Format CAC UAN No.  
0000022317/CR-2006001038 dtd.  
24/06/2020 valid till 31.03.2022

#### Consent Issue Date

24/06/2020

#### Consent Valid Upto

31.03.2022

#### Establishment Year

2005

#### Date of last environment statement submitted

Sep 7 2021 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

### Product Information

#### Product Name

Coal

#### Consent Quantity

0

#### Actual Quantity

0

#### UOM

MT/A

### By-product Information

#### By Product Name

Over Burden

#### Consent Quantity

0

#### Actual Quantity

0

#### UOM

Part-B (Water & Raw Material Consumption)

<u>1) Water Consumption in m3/day</u>		
Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
	0.00	0.00
Cooling	0.00	0.00
Domestic	3000.00	3000.00
All others	700.00	700.00
Total	3700.00	3700.00

<u>2) Effluent Generation in CMD / MLD</u>			
Particulars	Consent Quantity	Actual Quantity	UOM
Trade Effluent	700	700	CMD
Domestic	2400	2400	CMD

<u>2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)</u>			
Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
Coal	0	0	Kg/Annum

<u>3) Raw Material Consumption (Consumption of raw material per unit of product)</u>			
Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
Explosive	0	0	Kg/Annum
Diesel	0	0	Ltr/A
Oil and Grease	0	0	Ltr/A

<u>4) Fuel Consumption</u>			
Fuel Name	Consent quantity	Actual Quantity	UOM
Diesel	0	0	Ltr/A

Part-C

<u>Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)</u>					
<u>[A] Water</u>					
Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour	Percentage of variation from prescribed standards with reasons	Standard	Reason
	Quantity	Concentration	%variation		
Mine water	0.0	0.0	0	0	0

<u>[B] Air (Stack)</u>					
Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/NM3)	Percentage of variation from prescribed standards with reasons	Standard	Reason
	Quantity	Concentration	%variation		
NA	0	0	0	0	0

Part-D

## HAZARDOUS WASTES

### 1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	Ltr/A

### 2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	Ton/Y

## Part-E

## SOLID WASTES

### 1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Over burden	0	0	M3/Anum

### 2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	0	0	CMD

### 3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	CMD

## Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

### 1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
34.2 Sludge from treatment of waste water arising out of cleaning / disposal of barrels / containers	0	Ton/Y	NIL

### 2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Over Burden	0	M3/Anum	NIL

## Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Conservation of natural resources	0.0	0	0	0	13698.16889	0

Part-H

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<b><u>Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.</u></b>		
<b><u>[A] Investment made during the period of Environmental Statement</u></b>		
<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
NIL	NIL	0

---

<b><u>[B] Investment Proposed for next Year</u></b>		
<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
Installation of mist canon at Ghugus New Railway Siding	Dust Suppression	100
Installation of Wind barrier at Ghugus New Railway Siding	Dust Suppression	170

Part-I

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**Any other particulars for improving the quality of the environment.**

**Particulars**  
Environment protection and abatement of pollution

**Name & Designation**  
Shri. Omprakash Fulare , Sub Area Manager Ghugus

**UAN No:**  
MPCB-ENVIRONMENT\_STATEMENT-0000037232

**Submitted On:**  
27-09-2021



# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000036821

### Submitted Date

26-09-2021

## PART A

### Company Information

#### Company Name

Kolgaon Open Cast Mine, Western Coalfields Limited

#### Application UAN number

-

#### Address

Office of Project Officer, Kolgaon OC Project

#### Plot no

-

#### Taluka

Wani

#### Village

Kolgaon

#### Capital Investment (In lakhs)

6145.26313

#### Scale

LSI

#### City

Yavatmal

#### Pincode

445307

#### Person Name

Shri. R. P Singh

#### Designation

Sub Area Manager, Kolgaon

#### Telephone Number

7774055550

#### Fax Number

07239235104

#### Email

waniarea.environdept@gmail.com

#### Region

SRO-Chandrapur

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

Applied for renewal of consent vide MPCB-CONSENT-0000100737 on dtd. 22/10/2020 upto 31.12.2023 and CTO granted vide 5th CC meeting held on 25/06/2021. (Copy yet not received)

#### Consent Issue Date

2021-06-25

#### Consent Valid Upto

31.12.2020

#### Establishment Year

2011

#### Date of last environment statement submitted

Sep 7 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

### Product Information

#### Product Name

Coal

#### Consent Quantity

0.6

#### Actual Quantity

0.4524

#### UOM

MT/A

### By-product Information

#### By Product Name

Over Burden

#### Consent Quantity

0

#### Actual Quantity

1294304

#### UOM

CMD

Part-B (Water & Raw Material Consumption)

<u>1) Water Consumption in m3/day</u>		
Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
	0.00	0.00
Cooling	0.00	0.00
Domestic	32.00	32.00
All others	1758.00	1758.00
Total	1790.00	1790.00

<u>2) Effluent Generation in CMD / MLD</u>			
Particulars	Consent Quantity	Actual Quantity	UOM
Trade effluent - Domestic	0	26	CMD
Mine water	0	2400	CMD

<u>2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)</u>			
Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
Coal	0	0	CMD

<u>3) Raw Material Consumption (Consumption of raw material per unit of product)</u>			
Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
Explosive	196081	446225	Kg/Annum
Diesel	1974	2196	Ltr/A
Oil and Grease	210	105	Ltr/A

<u>4) Fuel Consumption</u>			
Fuel Name	Consent quantity	Actual Quantity	UOM
Diesel	0	2196	Ltr/A

Part-C

<u>Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)</u>					
<u>[A] Water</u>					
Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour	Percentage of variation from prescribed standards with reasons	Standard	Reason
	Quantity	Concentration	%variation		
Mine water	2400	0	0	0	0

<u>[B] Air (Stack)</u>					
Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/NM3)	Percentage of variation from prescribed standards with reasons	Standard	Reason
	Quantity	Concentration	%variation		
NO AIR STACK MONITORING	0	0	0	0	0

Part-D

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0.0	0.0	KL/A

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0.0	0.0	Ton/Y

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Over burden	774267	1294304	M3/Anum

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NIL	0	0	CMD

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	CMD

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
0	0	CMD	-

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Overburden	1294304	CMD	OB is stacked at earmarked site and proper benching & slope angle is maintained

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Conservation of Natural Resources	0.0	0.0006	250144	304669	617621564	0.0

Part-H

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<i>Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.</i>		
<i>[A] Investment made during the period of Environmental Statement</i>		
<i>Detail of measures for Environmental Protection</i>	<i>Environmental Protection Measures</i>	<i>Capital Investment (Lacks)</i>
NIL	NIL	0

---

<i>[B] Investment Proposed for next Year</i>		
<i>Detail of measures for Environmental Protection</i>	<i>Environmental Protection Measures</i>	<i>Capital Investment (Lacks)</i>
Installation of rooftop rainwater harvesting structure at Manager office	Ground water	6.00

Part-I

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*Any other particulars for improving the quality of the environment.*

**Particulars**  
Environmental protection and abatement of pollution

**Name & Designation**  
Shri. R. P Singh, Sub Area Manager, Mungoli

**UAN No:**  
MPCB-ENVIRONMENT\_STATEMENT-0000036821

**Submitted On:**  
26-09-2021





# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000036801

### Submitted Date

26-09-2021

## PART A

### Company Information

#### Company Name

Mungoli Nirguda Extension Deep OC,  
Western Coalfields Limited

#### Application UAN number

MPCB-CONSENT-0000088073

#### Address

Mungoli Nirguda Extension Deep Open Cast  
Project, Sakhara

#### Plot no

-

#### Taluka

Wani

#### Village

Sakhara

#### Capital Investment (In lakhs)

41516.42926

#### Scale

L.S.I

#### City

Yavatmal

#### Pincode

445307

#### Person Name

R. P Singh

#### Designation

Sub Area Manager, Mungoli

#### Telephone Number

7774055550

#### Fax Number

07239235104

#### Email

sammungoli@gmail.com

#### Region

SRO-Chandrapur

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

Format 1.0/CC/ UAN No.  
0000088073/CO-2005000512 dtd. 20/05/2020  
valid till 31/03/2021

#### Consent Issue Date

2020-09-04

#### Consent Valid Upto

31/03/2021

#### Establishment Year

2019

#### Date of last environment statement submitted

Sep 4 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

### Product Information

#### Product Name

COAL

#### Consent Quantity

4.375

#### Actual Quantity

4.315

#### UOM

MT/A

### By-product Information

#### By Product Name

Over burden

#### Consent Quantity

19275000

#### Actual Quantity

22669927

#### UOM

Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day		
Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
	0.00	0.00
Cooling	0.00	0.00
Domestic	356.00	356.00
All others	1330.00	1330.00
Total	1686.00	1686.00

2) Effluent Generation in CMD / MLD			
Particulars	Consent Quantity	Actual Quantity	UOM
Trade effluent	15050	15050	CMD
Domestic effluent	282	282	CMD

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)			
Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
Coal	0	0	CMD

3) Raw Material Consumption (Consumption of raw material per unit of product)			
Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
Explosive	4243009	5731116	Kg/Annum
Diesel	6003769	6332406	Ltr/A
Oil and Grease	274483	270190	Ltr/A

4) Fuel Consumption			
Fuel Name	Consent quantity	Actual Quantity	UOM
Diesel	0	6332406	Ltr/A

Part-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)					
[A] Water					
Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
Mine water	16380	0	-	--	-

[B] Air (Stack)					
Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/NM3) Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
NO AIR STACK MONTORING	0	0	-	-	--

## Part-D

### HAZARDOUS WASTES

#### 1) From Process

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
5.1 Used or spent oil	32.97	30.45	KL/A
5.2 Wastes or residues containing oil	10	6	Ton/Y

#### 2) From Pollution Control Facilities

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
34.2 Sludge from treatment of waste water arising out of cleaning / disposal of barrels / containers	12	12	Ton/Y

## Part-E

### SOLID WASTES

#### 1) From Process

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
Over burden	9790295	22669927	M3/Anum

#### 2) From Pollution Control Facilities

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
NIL	0	0	CMD

#### 3) Quantity Recycled or Re-utilized within the unit

<b>Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
0	0	0	CMD

## Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

#### 1) Hazardous Waste

<b>Type of Hazardous Waste Generated</b>	<b>Qty of Hazardous Waste</b>	<b>UOM</b>	<b>Concentration of Hazardous Waste</b>
5.1 Used or spent oil	30.45	KL/A	42 KL got lifted by coprocessor M/s. Om Industries, Rohtak, Haryana.
5.2 Wastes or residues containing oil	6	Ton/Y	5.16 Tonnes was disposed off to CHWTSDF, Butibori
34.2 Sludge from treatment of waste water arising out of cleaning / disposal of barrels / containers	12	Ton/Y	17.76 Tonnes was disposed off to CHWTSDF, Butibori

#### 2) Solid Waste

<b>Type of Solid Waste Generated</b>	<b>Qty of Solid Waste</b>	<b>UOM</b>	<b>Concentration of Solid Waste</b>
Over Burden	7257764	M3/Anum	Overburden is properly stacked at earmarked sites by maintaining proper benching and slope angle.

## Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

<b>Description</b>	<b>Reduction in Water Consumption (M3/day)</b>	<b>Reduction in Fuel &amp; Solvent Consumption (KL/day)</b>	<b>Reduction in Raw Material (Kg)</b>	<b>Reduction in Power Consumption (KWH)</b>	<b>Capital Investment(in Lacs)</b>	<b>Reduction in Maintenance(in Lacs)</b>
Conservation of Natural resource	0.0	0.90	4077	945999	4539606564	0.0

## Part-H

**Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.**  
**[A] Investment made during the period of Environmental Statement**

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
Installation of water meter	Water Quantity Monitoring	2

<b><u>[B] Investment Proposed for next Year</u></b>		
<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
Installation of 2 Nos. observational piezometric wells with sensors	Ground water level monitoring	15
Truck mounted mist spray system	Dust suppression	40
Road sweeping machine	Dust suppression	50

## Part-I

**Any other particulars for improving the quality of the environment.**

**Particulars**  
 Environmental Protection and Abatement of pollution

**Name & Designation**  
 Shri. R. P. Singh

**UAN No:**  
 MPCB-ENVIRONMENT\_STATEMENT-0000036801

**Submitted On:**  
 26-09-2021



# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000036809

### Submitted Date

26-09-2021

## PART A

### Company Information

#### Company Name

Bellora Naigaon Open Cast Mine

#### Application UAN number

0000044071

#### Address

WCL Wani Area Road, PO : Bellora

#### Plot no

-

#### Taluka

Wani

#### Village

-

#### Capital Investment (In lakhs)

13147.21181

#### Scale

LSI

#### City

Yavatmal

#### Pincode

445304

#### Person Name

Shri. Atul Singh

#### Designation

SUB AREA MANAGER

#### Telephone Number

7774074645

#### Fax Number

07722067696

#### Email

waniarea.environtdept@gmail.com

#### Region

SRO-Chandrapur

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

Format1.0/ CAC/ UAN No.  
0000044071/CR-2007001683 dtd.  
29/07/2020 valid till 31/03/2021

#### Consent Issue Date

29.07.2020

#### Consent Valid Upto

31.03.2021

#### Establishment Year

2011

#### Date of last environment statement submitted

Sep 7 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

### Product Information

#### Product Name

COAL

#### Consent Quantity

1.25

#### Actual Quantity

0

#### UOM

MT/A

### By-product Information

#### By Product Name

Overburden

#### Consent Quantity

0

#### Actual Quantity

7631134

#### UOM

## Part-B (Water & Raw Material Consumption)

### 1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
	0.00	0.00
Cooling	0.00	0.00
Domestic	15.00	15.00
All others	350.00	350.00
Total	365.00	365.00

### 2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Trade effluent	4515	500	CMD
Domestic effluent	12	12	CMD

### 2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
Coal	0	0	CMD

### 3) Raw Material Consumption (Consumption of raw material per unit of product)

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
Explosive	284125	1970755	Kg/Annum
Diesel	88857	91428	Ltr/A
Oil and Grease	5662	7495	Ltr/A

### 4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
Diesel	0	91428	Ltr/A

## Part-C

### Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

#### [A] Water

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
Mine water	11218	0	0	0	0

#### [B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/NM3) Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
NO AIR STACK MONITORING	0	0	0	0	0

## Part-D

### HAZARDOUS WASTES

**1) From Process**

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
5.1 Used or spent oil	0.867	1.645	KL/A
5.2 Wastes or residues containing oil	0	3	Ton/Y

**2) From Pollution Control Facilities**

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
34.2 Sludge from treatment of waste water arising out of cleaning / disposal of barrels / containers	0	8	Ton/Y

**Part-E****SOLID WASTES****1) From Process**

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
Over burden	885082	7631134	M3/Anum

**2) From Pollution Control Facilities**

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
NIL	0	0	CMD

**3) Quantity Recycled or Re-utilized within the unit**

<b>Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
0	0	0	CMD

**Part-F**

**Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.**

**1) Hazardous Waste**

<b>Type of Hazardous Waste Generated</b>	<b>Qty of Hazardous Waste</b>	<b>UOM</b>	<b>Concentration of Hazardous Waste</b>
5.1 Used or spent oil	1.645	KL/A	Stock of 2.512 KL/A is properly stored in barrels
5.2 Wastes or residues containing oil	3	Ton/Y	3.0 T/A stock is stored in RCC tank
34.2 Sludge from treatment of waste water arising out of cleaning / disposal of barrels / containers	8	KL/A	17.57 T/A disposed off to CHWTSDF site at Butibori

**2) Solid Waste**

<b>Type of Solid Waste Generated</b>	<b>Qty of Solid Waste</b>	<b>UOM</b>	<b>Concentration of Solid Waste</b>
Over Burden	7631134	M3/Anum	OB dumped is properly stacked at earmarked site

**Part-G**

**Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.**

<b>Description</b>	<b>Reduction in Water Consumption (M3/day)</b>	<b>Reduction in Fuel &amp; Solvent Consumption (KL/day)</b>	<b>Reduction in Raw Material (Kg)</b>	<b>Reduction in Power Consumption (KWH)</b>	<b>Capital Investment(in Lacs)</b>	<b>Reduction in Maintenance(in Lacs)</b>
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Conservation of natural resources	0	0.007	1686630	8083328	13147.21181	0
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## Part-H

<u>Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.</u>		
<u>[A] Investment made during the period of Environmental Statement</u>		
<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
NIL	NIL	0

<u>[B] Investment Proposed for next Year</u>		
<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
Truck mounted mist spray system	Control of Air pollution	40
Installation and commissioning of CAAQMS	Monitoring air pollution control measure	70

## Part-I

Any other particulars for improving the quality of the environment.

Particulars  
Environmental protection and abatement of pollution

Name & Designation  
Mr. Atul Singh , Sub Area Manager, Niljai SA

UAN No:  
MPCB-ENVIRONMENT\_STATEMENT-0000036809

Submitted On:  
26-09-2021





# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000033486

### Submitted Date

20-07-2021

## PART A

### Company Information

#### Company Name

Western Coalfields Ltd., Penganga  
Expansion Opencast Mine

#### Application UAN number

MPCB-CONSENT-0000063749

#### Address

Office of Project Officer, Penganga OC  
Project

#### Plot no

-

#### Taluka

Korpana

#### Village

Virur- Gadegaon

#### Capital Investment (In lakhs)

32998.69689

#### Scale

LSI

#### City

CHANDRAPUR

#### Pincode

442917

#### Person Name

Mr. R V Subba Reddy

#### Designation

Sub Area Manager, Penganga Project

#### Telephone Number

6301007414

#### Fax Number

-

#### Email

waniarea.environddept@gmail.com

#### Region

SRO-Chandrapur

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

BO/CAC CELL/UAN No. 63699 and 63749/  
CAC- 1902001161 dtd. 25/02/2019 valid till  
31/03/2022

#### Consent Issue Date

25.02.2019

#### Consent Valid Upto

31.03.2022

#### Establishment Year

2019

#### Date of last environment statement submitted

Sep 4 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

-

### Product Information

#### Product Name

COAL

#### Consent Quantity

6.3

#### Actual Quantity

5.253071

#### UOM

MT/A

### By-product Information

#### By Product Name

OVER BURDEN

#### Consent Quantity

NA

#### Actual Quantity

14714626

#### UOM

Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day		
Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
	-	-
Cooling	-	-
Domestic	40	40
All others	1430	1430
Total	1470	1470

2) Effluent Generation in CMD / MLD			
Particulars	Consent Quantity	Actual Quantity	UOM
Trade Effluent	1430	1430	CMD
Domestic	28	10	CMD

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)			
Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
Coal	-	-	CMD

3) Raw Material Consumption (Consumption of raw material per unit of product)			
Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
Explosive	5423351	4879864	Kg/Annum
Diesel	2747150	3085379	Ltr/A
Oil and Grease	145411	150024	Ltr/A

4) Fuel Consumption			
Fuel Name	Consent quantity	Actual Quantity	UOM
Diesel	NIL	3085379	Ltr/A

Part-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)					
[A] Water					
Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour	Percentage of variation from prescribed standards with reasons	Standard	Reason
	Quantity	Concentration	%variation		
Mine Water	1430	Water analysis report attached at part 1	-	-	-

[B] Air (Stack)					
Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/NM3)	Percentage of variation from prescribed standards with reasons	Standard	Reason
	Quantity	Concentration	%variation		
No Air Stack Monitoring	-	-	-	-	-

Part-D

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.1 Used or spent oil	26.60	26.07	KL/A
5.2 Wastes or residues containing oil	1.55	2.5	Ton/Y

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	NIL	NIL	CMD

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Over Burden	12785452	14714626	M3/Anum

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NIL	NIL	NIL	CMD

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	NIL	NIL	CMD

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
5.1 Used or spent oil	26.07	KL/A	Burnt oil is stored in barrels
5.2 Wastes or residues containing oil	2.5	Ton/Y	Oil contaminated waste is stored in RCC tanks

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Over Burden	14714626	M3/Anum	Over burden dumps are stacked at earmarked sites maintaining stable slope

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
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Conservation of Natural Resources	0	Diesel increased by 0.93 KL/day	Explosives decreased by 543487 Kg/A	Increased by 1633192 KWH/Yr	Increased by 4059.7 Lakhs	0
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Part-H

<b><u>Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.</u></b>		
<b><u>[A] Investment made during the period of Environmental Statement</u></b>		
<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
Plantation of 20,000 Nos. saplings on plain land (near riverside) and embankment along with 5 year maintenance by M/s. Madhya Pradesh Rajya Van Vikas Nigam Limited	Plantation	25.00
Establishment of 2 Nos. piezometer system	Ground water level monitoring	9.35
Installation of Water meter	Water Quantity Monitoring	4.00

<b><u>[B] Investment Proposed for next Year</u></b>		
<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
Construction of ETP	Waste Water Treatment	38.00
Road sweeping machine	Dust suppression	50.00
Truck mounted mist spray system	Dust Suppression	40.00
Tyre wash system	Dust Suppression	40.00

Part-I

**Any other particulars for improving the quality of the environment.**

**Particulars**  
 Environmental Protection and Abatement of Pollution

**Name & Designation**  
 Mr. R V Subba Reddy

**UAN No:**  
 MPCB-ENVIRONMENT\_STATEMENT-0000033486

**Submitted On:**  
 20-07-2021



# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000036744

### Submitted Date

25-09-2021

## PART A

### Company Information

#### Company Name

Niljai Expansion (Deep) OC, Western Coalfields Limited

#### Application UAN number

MPCB-CONSENT-0000090513

#### Address

Post : Bellora, Tah : Wani, Dist : Yavatmal, (MS)

#### Plot no

-

#### Taluka

Wani

#### Village

Bellora

#### Capital Investment (In lakhs)

3944.340830

#### Scale

L.S.I

#### City

Yavatmal

#### Pincode

445304

#### Person Name

Shri. Atul Singh

#### Designation

Sub Area Manager, Niljai Sub Area

#### Telephone Number

7774074645

#### Fax Number

07239232338

#### Email

waniarea.environdept@gmail.com

#### Region

SRO-Chandrapur

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

Format CAC UAN No.  
0000090513/CO-2005000269 dtd.  
08/05/2020 valid till 31.03.2021

#### Consent Issue Date

08/05/2020

#### Consent Valid Upto

31.03.2021

#### Establishment Year

2019

#### Date of last environment statement submitted

Sep 4 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

### Product Information

#### Product Name

COAL

#### Consent Quantity

4.5

#### Actual Quantity

2.48

#### UOM

MT/A

### By-product Information

#### By Product Name

Over Burden

#### Consent Quantity

39774444

#### Actual Quantity

26480997

#### UOM

Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day		
Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
	0.00	0.00
Cooling	0.00	0.00
Domestic	330.00	330.00
All others	2786.00	2786.00
Total	3116.00	3116.00

2) Effluent Generation in CMD / MLD			
Particulars	Consent Quantity	Actual Quantity	UOM
Trade effluent	5764	5764	CMD
Domestic Effluent	264	264	CMD

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)			
Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
Coal	0	0	CMD

3) Raw Material Consumption (Consumption of raw material per unit of product)			
Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
Explosive	9571773	7608947	Kg/Annum
Diesel	5304084	4094519	Ltr/A
Oil and Grease	247763	180091	Ltr/A

4) Fuel Consumption			
Fuel Name	Consent quantity	Actual Quantity	UOM
Diesel	0	4094519	Ltr/A

Part-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)					
[A] Water					
Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
Mine water	8550	0	-	-	-

[B] Air (Stack)					
Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/NM3) Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
NO AIR STACK MONITORING	0	0	-	--	-

## Part-D

### HAZARDOUS WASTES

#### 1) From Process

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
5.1 Used or spent oil	32.826	29.15	KL/A
5.2 Wastes or residues containing oil	10	6	Ton/Y

#### 2) From Pollution Control Facilities

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
34.2 Sludge from treatment of waste water arising out of cleaning / disposal of barrels / containers	30	25	Ton/Y

## Part-E

### SOLID WASTES

#### 1) From Process

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
Over burden	20899839	26480997	M3/Anum

#### 2) From Pollution Control Facilities

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
NIL	0	0	CMD

#### 3) Quantity Recycled or Re-utilized within the unit

<b>Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
0	0	0	CMD

## Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

#### 1) Hazardous Waste

<b>Type of Hazardous Waste Generated</b>	<b>Qty of Hazardous Waste</b>	<b>UOM</b>	<b>Concentration of Hazardous Waste</b>
5.1 Used or spent oil	29.15	KL/A	31.50 KL was sent to coprocessor M/s. Lucky Petroleum
5.2 Wastes or residues containing oil	6	Ton/Y	8.25 MTA Tonnes stock was disposed off to CHWTSDF, Butibori
34.2 Sludge from treatment of waste water arising out of cleaning / disposal of barrels / containers	25	Ton/Y	33.91 Tonnes stock was disposed off to CHWTSDF, Butibori

#### 2) Solid Waste

<b>Type of Solid Waste Generated</b>	<b>Qty of Solid Waste</b>	<b>UOM</b>	<b>Concentration of Solid Waste</b>
Over Burden	26480997	M3/Anum	-

## Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

<b>Description</b>	<b>Reduction in Water Consumption (M3/day)</b>	<b>Reduction in Fuel &amp; Solvent Consumption (KL/day)</b>	<b>Reduction in Raw Material (Kg)</b>	<b>Reduction in Power Consumption (KWH)</b>	<b>Capital Investment(in Lacs)</b>	<b>Reduction in Maintenance(in Lacs)</b>
Conservation of Natural resource	0	3.313	1962826	1370579	3944340830	0

## Part-H

**Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.**  
**[A] Investment made during the period of Environmental Statement**

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
Installation of Mist sprinklers at CHP	Dust Suppression	18
Installation of water meter	Water Quantity Monitoring	2

**[B] Investment Proposed for next Year**

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
Continuous ambient air quality monitoring system	Air quality monitoring	50
Truck mounted mist spray system	Dust Suppression	40
Road sweeping machine	Dust Suppression	50
Installation of 2 Nos. observational piezometer	Ground water monitoring	15

## Part-I

**Any other particulars for improving the quality of the environment.**

**Particulars**  
 Environmental protection and abatement of pollution

**Name & Designation**  
 Mr. Atul Singh, Sub Area Manager, Niljai

**UAN No:**  
 MPCB-ENVIRONMENT\_STATEMENT-0000036744

**Submitted On:**  
 25-09-2021





# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000036500

### Submitted Date

23-09-2021

## PART A

### Company Information

#### Company Name

Western Coalfields Limited, Ghonsa Opencast Mine

#### Application UAN number

-

#### Address

Office of the Sub Area Manager, Ghonsa-Kumbharkhani, Po.- Rasa, Tal.- Wani, Distt. - Yavatmal, Maharashtra

#### Plot no

25/1,2,3

#### Taluka

Wani

#### Village

Wani North

#### Capital Investment (In lakhs)

6340.37

#### Scale

L.S.I

#### City

Yavatmal

#### Pincode

445304

#### Person Name

Dr Satyendrakumar

#### Designation

Sub Area Manager, Ghonsa Sub Area

#### Telephone Number

8380092918

#### Fax Number

07239241357

#### Email

samghonsa@gmail.com

#### Region

SRO-Chandrapur

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

Format1.0/CC/UAN  
No.0000087637/CR2011001165

#### Consent Issue Date

2020-11-24

#### Consent Valid Upto

2021-03-31

#### Establishment Year

2008

#### Date of last environment statement submitted

Sep 29 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

### Product Information

#### Product Name

Coal

#### Consent Quantity

0.60

#### Actual Quantity

0.507

#### UOM

MT/A

### By-product Information

#### By Product Name

NA

#### Consent Quantity

0

#### Actual Quantity

0

#### UOM

MT/A

Part-B (Water & Raw Material Consumption)

<u>1) Water Consumption in m3/day</u>				
Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day		
	652.00	652.00		
Cooling	0.00	0.00		
Domestic	18.00	18.00		
All others	50.00	0.00		
Total	720.00	670.00		
<u>2) Effluent Generation in CMD / MLD</u>				
Particulars	Consent Quantity	Actual Quantity	UOM	
Daily Trade Effluent (including mine discharge)	4363	3711	CMD	
<u>2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)</u>				
Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM	
Mining	0.23	.48	CMD	
<u>3) Raw Material Consumption (Consumption of raw material per unit of product)</u>				
Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM	
Explosive	1.5	2.2	Kg/Annum	
<u>4) Fuel Consumption</u>				
Fuel Name	Consent quantity	Actual Quantity	UOM	
Diesel	0	3037.8	KL/A	

Part-C

<u>Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)</u>					
<u>[A] Water</u>					
Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
-	0	0	-	-	-
<u>[B] Air (Stack)</u>					
Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/NM3) Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
-	0	0	-	-	-

Part-D

<u>HAZARDOUS WASTES</u>				
<u>1) From Process</u>				
Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM	
5.1 Used or spent oil	0	23.5	Ton/Y	

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	Ton/Y

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
-	0	0	Ton/Y

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
-	0	0	Ton/Y

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	Ton/Y

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
5.1 Used or spent oil	23.5	Ton/Y	-
5.2 Wastes or residues containing oil	4	Ton/Y	-

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
-	0	Ton/Y	-

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Impact of the pollution control measures taken	0	0.094	0	0	0	0

Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.  
 [A] Investment made during the period of Environmental Statement

<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
Making concrete hard stand for water tanker filling point	Making concrete hard stand for water tanker filling point	6.7

***[B] Investment Proposed for next Year***

<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
Installation of rain guns for air pollution control	Installation of rain guns for air pollution control	10

**Part-I**

***Any other particulars for improving the quality of the environment.***

***Particulars***

-

***Name & Designation***

Sub Area Manager, Ghonsa Sub Area

***UAN No:***

MPCB-ENVIRONMENT\_STATEMENT-0000036500

***Submitted On:***

23-09-2021



# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000036051

### Submitted Date

21-09-2021

## PART A

### Company Information

#### Company Name

Western Coalfields Limited, Junad Deep Open Cast coal Mine Project

#### Application UAN number

-

#### Address

Office of the Sub Area Manager, Ukni-Junad Sub Area,  
Po. - Ukni, Tal.- Wani, Distt. - Yavatmal

#### Plot no

118,114,115,116,117,123,124

#### Taluka

Wani

#### Village

Ukni

#### Capital Investment (In lakhs)

10243.8

#### Scale

L.S.I.

#### City

WANI

#### Pincode

445304

#### Person Name

B V Bhaskar Reddy

#### Designation

Sub Area Manager, Ukni-Junad Sub Area

#### Telephone Number

9607922288

#### Fax Number

07239241357

#### Email

wclsamujsa@gmail.com

#### Region

SRO-Chandrapur

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

Format1.0/CC/UAN  
No.0000103043/CO2107000218

#### Consent Issue Date

2021-07-05

#### Consent Valid Upto

2023-03-31

#### Establishment Year

1998

#### Date of last environment statement submitted

Sep 25 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

### Product Information

#### Product Name

Coal

#### Consent Quantity

0.6

#### Actual Quantity

0.33

#### UOM

MT/A

### By-product Information

#### By Product Name

-

#### Consent Quantity

0

#### Actual Quantity

0

#### UOM

MT/A

## Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
	400.00	400.00
Cooling	0.00	0.00
Domestic	14.00	14.00
All others	0.00	0.00
Total	414.00	414.00

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
TRADE EFFLUENT (Mine Discharge)	2302	2300	CMD

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
Coal (Cubic Meter/Tonne)	0.302	0.45	CMD

3) Raw Material Consumption (Consumption of raw material per unit of product)

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
Explosives (Kg/Tonne)	2.98	2.34	Kg/Annum

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
High Speed Diesel	0	719.182	KL/A

Part-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

[A] Water

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
-	0	0	-	-	-

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/NM3) Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
-	0	0	-	-	-

Part-D

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.1 Used or spent oil	4.51	4.83	KL/A

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	Ton/Y

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
-	0	0	Ton/Y

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
-	0	0	Ton/Y

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	Ton/Y

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
5.1 Used or spent oil	4.83	KL/A	-

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
-	0	Ton/Y	-

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Impact of the pollution control measures taken	0	0.019	623780	0	0	0

Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.  
[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
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Revenue expenditure	Operation of rainguns, ETP, Sedimentation tank etc	6.50
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**[B] Investment Proposed for next Year**

<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
Revenue Expenditure	Installation of water sprinkler system to control dust generation	10

**Part-I**

**Any other particulars for improving the quality of the environment.**

**Particulars**

-

**Name & Designation**

B V Bhaskar Reddy, Sub Area Manager, Ukni-Junad Sub Area

**UAN No:**

MPCB-ENVIRONMENT\_STATEMENT-0000036051

**Submitted On:**

21-09-2021





# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000036489

### Submitted Date

23-09-2021

## PART A

### Company Information

#### Company Name

Western Coalfields Limited, Kolar Pimpri Open Cast Mine

#### Application UAN number

-

#### Address

Office of the Sub Area Manager, Kolar PimpriPimpalgaon Sub Area, Po.- Ukni, Tal.- Wani, Distt. - Yavatmal, Maharashtra

#### Plot no

79

#### Taluka

Wani

#### Village

-

#### Capital Investment (In lakhs)

28409.3

#### Scale

L.S.I

#### City

Wani

#### Pincode

445304

#### Person Name

S B Prasad

#### Designation

Sub Area Manager, Kolar pimpri-Pimpalgaon Sub Area

#### Telephone Number

7447434791

#### Fax Number

07239241357

#### Email

wclsamkolarpimpri@gmail.com

#### Region

SRO-Chandrapur

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

MPCB-CONSENT-0000040280

#### Consent Issue Date

2020-07-22

#### Consent Valid Upto

2021-03-31

#### Establishment Year

1993

#### Date of last environment statement submitted

Sep 29 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

### Product Information

#### Product Name

COAL

#### Consent Quantity

1.5

#### Actual Quantity

1.13

#### UOM

MT/A

### By-product Information

#### By Product Name

-

#### Consent Quantity

0

#### Actual Quantity

0

#### UOM

MT/A

Part-B (Water & Raw Material Consumption)

<b>1) <u>Water Consumption in m3/day</u></b>			
<b>Water Consumption for Process</b>	<b>Consent Quantity in m3/day</b>	<b>Actual Quantity in m3/day</b>	
	590.00	590.00	
<b>Cooling</b>	0.00	0.00	
<b>Domestic</b>	130.00	18.00	
<b>All others</b>	50.00	50.00	
<b>Total</b>	770.00	658.00	
<b>2) <u>Effluent Generation in CMD / MLD</u></b>			
<b>Particulars</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Mine discharge	4148	3718	CMD
<b>2) <u>Product Wise Process Water Consumption (cubic meter of process water per unit of product)</u></b>			
<b>Name of Products (Production)</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
mining	0.3	0.21	CMD
<b>3) <u>Raw Material Consumption (Consumption of raw material per unit of product)</u></b>			
<b>Name of Raw Materials</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Explosives	1.57	1.88	Kg/Annum
<b>4) <u>Fuel Consumption</u></b>			
<b>Fuel Name</b>	<b>Consent quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Diesel	0	82.95	KL/A

Part-C

<b>Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)</b>					
<b>[A] Water</b>					
<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour</b>	<b>Percentage of variation from prescribed standards with reasons</b>		
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>	<b>Standard</b>	<b>Reason</b>
Water monitoring reports have been attached	0	0	-	-	-
<b>[B] Air (Stack)</b>					
<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/NM3)</b>	<b>Percentage of variation from prescribed standards with reasons</b>		
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>	<b>Standard</b>	<b>Reason</b>
NA	0	0	-	-	-

Part-D

HAZARDOUS WASTES  
1) From Process

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
5.1 Used or spent oil	0.4	.5	KL/A

## 2) From Pollution Control Facilities

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
0	0	0	Ton/Y

## Part-E

### SOLID WASTES

#### 1) From Process

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
-	0	0	Ton/Y

#### 2) From Pollution Control Facilities

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
-	0	0	Ton/Y

#### 3) Quantity Recycled or Re-utilized within the unit

<b>Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
0	0	0	Ton/Y

## Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

#### 1) Hazardous Waste

<b>Type of Hazardous Waste Generated</b>	<b>Qty of Hazardous Waste</b>	<b>UOM</b>	<b>Concentration of Hazardous Waste</b>
5.1 Used or spent oil	.5	KL/A	-

#### 2) Solid Waste

<b>Type of Solid Waste Generated</b>	<b>Qty of Solid Waste</b>	<b>UOM</b>	<b>Concentration of Solid Waste</b>
-	0	Ton/Y	-

## Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

<b>Description</b>	<b>Reduction in Water Consumption (M3/day)</b>	<b>Reduction in Fuel &amp; Solvent Consumption (KL/day)</b>	<b>Reduction in Raw Material (Kg)</b>	<b>Reduction in Power Consumption (KWH)</b>	<b>Capital Investment(in Lacs)</b>	<b>Reduction in Maintenance(in Lacs)</b>
Impact of the pollution Control measures taken	0	0.23	0	0	0	0

## Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.

[A] Investment made during the period of Environmental Statement

<i><b>Detail of measures for Environmental Protection</b></i>	<i><b>Environmental Protection Measures</b></i>	<i><b>Capital Investment (Lacks)</b></i>
-	-	0

---

***[B] Investment Proposed for next Year***

<i><b>Detail of measures for Environmental Protection</b></i>	<i><b>Environmental Protection Measures</b></i>	<i><b>Capital Investment (Lacks)</b></i>
Installation of CAAQMS	Installation of CAAQMS	65

**Part-I**

---

***Any other particulars for improving the quality of the environment.***

***Particulars***

-

***Name & Designation***

S B Prasad , Sub Area Manager

***UAN No:***

MPCB-ENVIRONMENT\_STATEMENT-0000036489

***Submitted On:***

23-09-2021



# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000036500

### Submitted Date

23-09-2021

## PART A

### Company Information

#### Company Name

Western Coalfields Limited, Ghonsa Opencast Mine

#### Application UAN number

-

#### Address

Office of the Sub Area Manager, Ghonsa-Kumbharkhani, Po.- Rasa, Tal.- Wani, Distt. - Yavatmal, Maharashtra

#### Plot no

25/1,2,3

#### Taluka

Wani

#### Village

Wani North

#### Capital Investment (In lakhs)

6340.37

#### Scale

L.S.I

#### City

Yavatmal

#### Pincode

445304

#### Person Name

Dr Satyendrakumar

#### Designation

Sub Area Manager, Ghonsa Sub Area

#### Telephone Number

8380092918

#### Fax Number

07239241357

#### Email

samghonsa@gmail.com

#### Region

SRO-Chandrapur

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

Format1.0/CC/UAN  
No.0000087637/CR2011001165

#### Consent Issue Date

2020-11-24

#### Consent Valid Upto

2021-03-31

#### Establishment Year

2008

#### Date of last environment statement submitted

Sep 29 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

### Product Information

#### Product Name

Coal

#### Consent Quantity

0.60

#### Actual Quantity

0.507

#### UOM

MT/A

### By-product Information

#### By Product Name

NA

#### Consent Quantity

0

#### Actual Quantity

0

#### UOM

MT/A

Part-B (Water & Raw Material Consumption)

<u>1) Water Consumption in m3/day</u>				
Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day		
	652.00	652.00		
Cooling	0.00	0.00		
Domestic	18.00	18.00		
All others	50.00	0.00		
Total	720.00	670.00		
<u>2) Effluent Generation in CMD / MLD</u>				
Particulars	Consent Quantity	Actual Quantity	UOM	
Daily Trade Effluent (including mine discharge)	4363	3711	CMD	
<u>2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)</u>				
Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM	
Mining	0.23	.48	CMD	
<u>3) Raw Material Consumption (Consumption of raw material per unit of product)</u>				
Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM	
Explosive	1.5	2.2	Kg/Annum	
<u>4) Fuel Consumption</u>				
Fuel Name	Consent quantity	Actual Quantity	UOM	
Diesel	0	3037.8	KL/A	

Part-C

<u>Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)</u>					
<u>[A] Water</u>					
Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
-	0	0	-	-	-
<u>[B] Air (Stack)</u>					
Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/NM3) Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
-	0	0	-	-	-

Part-D

<u>HAZARDOUS WASTES</u>				
<u>1) From Process</u>				
Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM	
5.1 Used or spent oil	0	23.5	Ton/Y	

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	Ton/Y

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
-	0	0	Ton/Y

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
-	0	0	Ton/Y

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	Ton/Y

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
5.1 Used or spent oil	23.5	Ton/Y	-
5.2 Wastes or residues containing oil	4	Ton/Y	-

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
-	0	Ton/Y	-

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Impact of the pollution control measures taken	0	0.094	0	0	0	0

Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.  
 [A] Investment made during the period of Environmental Statement

<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
Making concrete hard stand for water tanker filling point	Making concrete hard stand for water tanker filling point	6.7

***[B] Investment Proposed for next Year***

<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
Installation of rain guns for air pollution control	Installation of rain guns for air pollution control	10

**Part-I**

***Any other particulars for improving the quality of the environment.***

***Particulars***

-

***Name & Designation***

Sub Area Manager, Ghonsa Sub Area

***UAN No:***

MPCB-ENVIRONMENT\_STATEMENT-0000036500

***Submitted On:***

23-09-2021





# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000036051

### Submitted Date

21-09-2021

## PART A

### Company Information

#### Company Name

Western Coalfields Limited, Junad Deep Open Cast coal Mine Project

#### Application UAN number

-

#### Address

Office of the Sub Area Manager, Ukni-Junad Sub Area,  
Po. - Ukni, Tal.- Wani, Distt. - Yavatmal

#### Plot no

118,114,115,116,117,123,124

#### Taluka

Wani

#### Village

Ukni

#### Capital Investment (In lakhs)

10243.8

#### Scale

L.S.I.

#### City

WANI

#### Pincode

445304

#### Person Name

B V Bhaskar Reddy

#### Designation

Sub Area Manager, Ukni-Junad Sub Area

#### Telephone Number

9607922288

#### Fax Number

07239241357

#### Email

wclsamujsa@gmail.com

#### Region

SRO-Chandrapur

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

Format1.0/CC/UAN  
No.0000103043/CO2107000218

#### Consent Issue Date

2021-07-05

#### Consent Valid Upto

2023-03-31

#### Establishment Year

1998

#### Date of last environment statement submitted

Sep 25 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

### Product Information

#### Product Name

Coal

#### Consent Quantity

0.6

#### Actual Quantity

0.33

#### UOM

MT/A

### By-product Information

#### By Product Name

-

#### Consent Quantity

0

#### Actual Quantity

0

#### UOM

MT/A

## Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
	400.00	400.00
Cooling	0.00	0.00
Domestic	14.00	14.00
All others	0.00	0.00
Total	414.00	414.00

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
TRADE EFFLUENT (Mine Discharge)	2302	2300	CMD

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
Coal (Cubic Meter/Tonne)	0.302	0.45	CMD

3) Raw Material Consumption (Consumption of raw material per unit of product)

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
Explosives (Kg/Tonne)	2.98	2.34	Kg/Annum

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
High Speed Diesel	0	719.182	KL/A

Part-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

[A] Water

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
-	0	0	-	-	-

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/NM3) Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
-	0	0	-	-	-

Part-D

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.1 Used or spent oil	4.51	4.83	KL/A

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	Ton/Y

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
-	0	0	Ton/Y

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
-	0	0	Ton/Y

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	Ton/Y

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
5.1 Used or spent oil	4.83	KL/A	-

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
-	0	Ton/Y	-

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Impact of the pollution control measures taken	0	0.019	623780	0	0	0

Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.  
[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
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Revenue expenditure	Operation of rainguns, ETP, Sedimentation tank etc	6.50
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**[B] Investment Proposed for next Year**

<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
Revenue Expenditure	Installation of water sprinkler system to control dust generation	10

**Part-I**

**Any other particulars for improving the quality of the environment.**

**Particulars**

-

**Name & Designation**

B V Bhaskar Reddy, Sub Area Manager, Ukni-Junad Sub Area

**UAN No:**

MPCB-ENVIRONMENT\_STATEMENT-0000036051

**Submitted On:**

21-09-2021



# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000036489

### Submitted Date

23-09-2021

## PART A

### Company Information

#### Company Name

Western Coalfields Limited, Kolar Pimpri Open Cast Mine

#### Application UAN number

-

#### Address

Office of the Sub Area Manager, Kolar PimpriPimpalgaon Sub Area, Po.- Ukni, Tal.- Wani, Distt. - Yavatmal, Maharashtra

#### Plot no

79

#### Taluka

Wani

#### Village

-

#### Capital Investment (In lakhs)

28409.3

#### Scale

L.S.I

#### City

Wani

#### Pincode

445304

#### Person Name

S B Prasad

#### Designation

Sub Area Manager, Kolar pimpri-Pimpalgaon Sub Area

#### Telephone Number

7447434791

#### Fax Number

07239241357

#### Email

wclsamkolarpimpri@gmail.com

#### Region

SRO-Chandrapur

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

MPCB-CONSENT-0000040280

#### Consent Issue Date

2020-07-22

#### Consent Valid Upto

2021-03-31

#### Establishment Year

1993

#### Date of last environment statement submitted

Sep 29 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

### Product Information

#### Product Name

COAL

#### Consent Quantity

1.5

#### Actual Quantity

1.13

#### UOM

MT/A

### By-product Information

#### By Product Name

-

#### Consent Quantity

0

#### Actual Quantity

0

#### UOM

MT/A

Part-B (Water & Raw Material Consumption)

<b>1) <u>Water Consumption in m3/day</u></b>			
<b>Water Consumption for Process</b>	<b>Consent Quantity in m3/day</b>	<b>Actual Quantity in m3/day</b>	
	590.00	590.00	
<b>Cooling</b>	0.00	0.00	
<b>Domestic</b>	130.00	18.00	
<b>All others</b>	50.00	50.00	
<b>Total</b>	770.00	658.00	
<b>2) <u>Effluent Generation in CMD / MLD</u></b>			
<b>Particulars</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Mine discharge	4148	3718	CMD
<b>2) <u>Product Wise Process Water Consumption (cubic meter of process water per unit of product)</u></b>			
<b>Name of Products (Production)</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
mining	0.3	0.21	CMD
<b>3) <u>Raw Material Consumption (Consumption of raw material per unit of product)</u></b>			
<b>Name of Raw Materials</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Explosives	1.57	1.88	Kg/Annum
<b>4) <u>Fuel Consumption</u></b>			
<b>Fuel Name</b>	<b>Consent quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Diesel	0	82.95	KL/A

Part-C

<b>Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)</b>					
<b>[A] Water</b>					
<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour</b>	<b>Percentage of variation from prescribed standards with reasons</b>		
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>	<b>Standard</b>	<b>Reason</b>
Water monitoring reports have been attached	0	0	-	-	-
<b>[B] Air (Stack)</b>					
<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/NM3)</b>	<b>Percentage of variation from prescribed standards with reasons</b>		
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>	<b>Standard</b>	<b>Reason</b>
NA	0	0	-	-	-

Part-D

HAZARDOUS WASTES  
1) From Process

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
5.1 Used or spent oil	0.4	.5	KL/A

## 2) From Pollution Control Facilities

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
0	0	0	Ton/Y

## Part-E

### SOLID WASTES

#### 1) From Process

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
-	0	0	Ton/Y

#### 2) From Pollution Control Facilities

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
-	0	0	Ton/Y

#### 3) Quantity Recycled or Re-utilized within the unit

<b>Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
0	0	0	Ton/Y

## Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

#### 1) Hazardous Waste

<b>Type of Hazardous Waste Generated</b>	<b>Qty of Hazardous Waste</b>	<b>UOM</b>	<b>Concentration of Hazardous Waste</b>
5.1 Used or spent oil	.5	KL/A	-

#### 2) Solid Waste

<b>Type of Solid Waste Generated</b>	<b>Qty of Solid Waste</b>	<b>UOM</b>	<b>Concentration of Solid Waste</b>
-	0	Ton/Y	-

## Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

<b>Description</b>	<b>Reduction in Water Consumption (M3/day)</b>	<b>Reduction in Fuel &amp; Solvent Consumption (KL/day)</b>	<b>Reduction in Raw Material (Kg)</b>	<b>Reduction in Power Consumption (KWH)</b>	<b>Capital Investment(in Lacs)</b>	<b>Reduction in Maintenance(in Lacs)</b>
Impact of the pollution Control measures taken	0	0.23	0	0	0	0

## Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.

[A] Investment made during the period of Environmental Statement

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
-	-	0

**[B] Investment Proposed for next Year**

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
Installation of CAAQMS	Installation of CAAQMS	65

**Part-I**

**Any other particulars for improving the quality of the environment.**

**Particulars**

-

**Name & Designation**

S B Prasad , Sub Area Manager

**UAN No:**

MPCB-ENVIRONMENT\_STATEMENT-0000036489

**Submitted On:**

23-09-2021





# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000037249

### Submitted Date

27-09-2021

## PART A

### Company Information

#### Company Name

Western Coalfields Limited, Pimpalgaon Open Cast Mine

#### Application UAN number

-

#### Address

Office of the Sub Area Manager, Kolar Pimpri- Pimpalgaon  
Sub Area, Po. - Ukni, Tal.- Wani, Distt. - Yavatmal

#### Plot no

79

#### Taluka

Wani

#### Village

-

#### Capital Investment (In lakhs)

6368.1

#### Scale

L.S.I.

#### City

WANI

#### Pincode

445304

#### Person Name

S B PRASAD

#### Designation

Sub Area Manager, Kolarpimpri- Pimpalgaon  
Sub Area

#### Telephone Number

7447339316

#### Fax Number

07239241357

#### Email

wnaenv@gmail.com

#### Region

SRO-Chandrapur

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

MPCB-CONSENT-0000041537

#### Consent Issue Date

Approved in CAC meeting dated 03-04-2019

#### Consent Valid Upto

31.08.2023

#### Establishment Year

1993

#### Date of last environment statement submitted

Sep 29 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

### Product Information

#### Product Name

coal

#### Consent Quantity

1.5

#### Actual Quantity

0

#### UOM

MT/A

### By-product Information

#### By Product Name

-

#### Consent Quantity

0

#### Actual Quantity

0

#### UOM

Ton/Y

## Part-B (Water & Raw Material Consumption)

### 1) Water Consumption in m3/day

<b>Water Consumption for Process</b>	<b>Consent Quantity in m3/day</b>	<b>Actual Quantity in m3/day</b>
	0.00	0.00
<b>Cooling</b>	0.00	0.00
<b>Domestic</b>	750.00	0.00
<b>All others</b>	0.00	0.00
<b>Total</b>	750.00	0.00

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Daily Trade Effluent (Mine Discharge)	0	0	CMD

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
Coal (Cubic Meter/Tonnes)	0	0	CMD

3) Raw Material Consumption (Consumption of raw material per unit of product)

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
Explosives (Kg/Tonnes)	0	0	Kg/Annum

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
High Speed diesel (Litre)	0	0	KL/A

Part-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

[A] Water

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
-	0	0	-	-	-

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/NM3) Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
-	0	0	-	-	-

Part-D

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	Ton/Y

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
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Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
-	0	0	Ton/Y

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
-	0	0	Ton/Y

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	Ton/Y

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
0	0	Ton/Y	-

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
-	0	Ton/Y	-

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Impact of the pollution control measures taken	0	0	0	187606	0	0

Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.  
[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
-	-	0

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
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## Part-I

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**Any other particulars for improving the quality of the environment.**

**Particulars**

-

**Name & Designation**

Sub Area Manager, Kolarpimpri-Pimpalgaon Sub Area

**UAN No:**

MPCB-ENVIRONMENT\_STATEMENT-0000037249

**Submitted On:**

27-09-2021



# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

**Unique Application Number**

MPCB-ENVIRONMENT\_STATEMENT-0000036706

**Submitted Date**

24-09-2021

## PART A

### Company Information

**Company Name**

M/s Western Coalfields Limited, Rajur  
Underground Coal Mine

**Application UAN number**

-

**Address**

Office of the Sub Area Manager, Rajur Sub  
Area, Po.- Rajur, Tal.- Wani, Distt. -  
Yavatmal, Maharashtra

**Plot no**

168

**Taluka**

Wani

**Village**

Rajur

**Capital Investment (In lakhs)**

4688.69

**Scale**

L.S.I

**City**

Wani

**Pincode**

445304

**Person Name**

Satyendra Kumar

**Designation**

Sub Area Manager, Ghonsa Sub Area

**Telephone Number**

8380095385

**Fax Number**

07239241357

**Email**

rajursubareawcl@gmail.com

**Region**

SRO-Chandrapur

**Industry Category**

Red

**Industry Type**

R35 Mining and ore beneficiation

**Last Environmental statement  
submitted online**

yes

**Consent Number**

BO/JD(APC)/TB-2/UANno89584/R/CC-2012000056

**Consent Issue Date**

2020-12-01

**Consent Valid Upto**

2022-04-30

**Establishment Year**

1973

**Date of last environment statement  
submitted**

Sep 29 2020 12:00:00:000AM

**Industry Category Primary (STC  
Code) & Secondary (STC Code)**

### Product Information

**Product Name**

Coal

**Consent Quantity**

0.21

**Actual Quantity**

0.056

**UOM**

MT/A

### By-product Information

**By Product Name**

-

**Consent Quantity**

0

**Actual Quantity**

0

**UOM**

Ton/Y

## Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day	
	200.00	50.00	
Cooling	0.00	0.00	
Domestic	1053.00	320.00	
All others	0.00	0.00	
Total	1253.00	370.00	

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Mine Discharge	13956	10630	CMD

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
Coal	2.46	2.41	CMD

3) Raw Material Consumption (Consumption of raw material per unit of product)

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
Explosives	0.44	0.33	Kg/Annum

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
Diesel	0	7.1	KL/A

Part-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

[A] Water

Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour	Percentage of variation from prescribed standards with reasons	Standard	Reason
	Quantity	Concentration	%variation		
Water quality monitoring reports have been attached	0	0	-	-	-

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/NM3)	Percentage of variation from prescribed standards with reasons	Standard	Reason
	Quantity	Concentration	%variation		
NA	0	0	-	-	-

Part-D

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
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2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	MT/A

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
-	0	0	MT/A

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
-	0	0	MT/A

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	MT/A

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
0	0	MT/A	-

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
-	0	MT/A	-

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Impact of the pollution Control measures taken	83	0.0091	10842	885522	0	0

Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.

[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
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-

-

0

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**[B] Investment Proposed for next Year**

<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
-	-	0

**Part-I**

---

**Any other particulars for improving the quality of the environment.**

**Particulars**

-

**Name & Designation**

Sub Area Manager, Ghonsa Sub Area

**UAN No:**

MPCB-ENVIRONMENT\_STATEMENT-0000036706

**Submitted On:**

24-09-2021





# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000036065

### Submitted Date

21-09-2021

## PART A

### Company Information

#### Company Name

Western Coalfields Limited, Ukni Opencast Mine

#### Application UAN number

-

#### Address

Office of the Sub Area Manager, Ukni - Junad Sub Area,  
PO. - Ukni, Tal- Wani, Dist - Yavatmal

#### Plot no

669

#### Taluka

Wani

#### Village

Ukni

#### Capital Investment (In lakhs)

31344.6

#### Scale

L.S.I

#### City

Wani

#### Pincode

445304

#### Person Name

B V Bhaskar Reddy

#### Designation

Sub Area Manager, Ukni-Junad Sub Area

#### Telephone Number

9607922288

#### Fax Number

07239241357

#### Email

wclsamujsa@gmail.com

#### Region

SRO-Chandrapur

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

MPCB-CONSENT-0000087450

#### Consent Issue Date

29.07.2020

#### Consent Valid Upto

31.03.2021

#### Establishment Year

1993

#### Date of last environment statement submitted

Sep 26 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

### Product Information

#### Product Name

COAL

#### Consent Quantity

2.2

#### Actual Quantity

1.53

#### UOM

MT/A

### By-product Information

#### By Product Name

-

#### Consent Quantity

0

#### Actual Quantity

0

#### UOM

CMD

## Part-B (Water & Raw Material Consumption)

### 1) Water Consumption in m3/day

#### Water Consumption for

#### Consent Quantity in m3/day

#### Actual Quantity in m3/day

<b>Process</b>	380.00	380.00
<b>Cooling</b>	0.00	0.00
<b>Domestic</b>	100.00	26.00
<b>All others</b>	100.00	100.00
<b>Total</b>	580.00	506.00

## 2) Effluent Generation in CMD / MLD

<b>Particulars</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Mine discharge	4603	4540	CMD

## 2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

<b>Name of Products (Production)</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Coal	0.1	0.12	CMD

## 3) Raw Material Consumption (Consumption of raw material per unit of product)

<b>Name of Raw Materials</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Explosives	1.92	2.69	Kg/Annum

## 4) Fuel Consumption

<b>Fuel Name</b>	<b>Consent quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Diesel	0	4977.75	KL/A

## Part-C

### Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

#### [A] Water

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour</b>	<b>Percentage of variation from prescribed standards with reasons</b>	<b>Standard</b>	<b>Reason</b>
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>		
Water quality monitoring reports have been attached	0	0	-	-	-

#### [B] Air (Stack)

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/NM3)</b>	<b>Percentage of variation from prescribed standards with reasons</b>	<b>Standard</b>	<b>Reason</b>
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>		
NA	0	0	-	-	-

## Part-D

### HAZARDOUS WASTES

#### 1) From Process

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
5.1 Used or spent oil	50	48.86	KL/A
5.2 Wastes or residues containing oil	7.14	5.28	Ton/Y

## 2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
34.2 Sludge from treatment of waste water arising out of cleaning / disposal of barrels / containers	9.38	36.84	Ton/Y

## Part-E

### SOLID WASTES

#### 1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
-	0	0	CMD

#### 2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
-	0	0	CMD

#### 3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	CMD

## Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

#### 1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
5.1 Used or spent oil	48.6	KL/A	-
5.2 Wastes or residues containing oil	5.28	Ton/Y	-
34.2 Sludge from treatment of waste water arising out of cleaning / disposal of barrels / containers	36.84	Ton/Y	-

#### 2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
-	0	CMD	-

## Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Impact of the pollution Control measures taken	0	0	0	480887	0	0

## Part-H

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**Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.**

**[A] Investment made during the period of Environmental Statement**

**Detail of measures for Environmental Protection**

	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
Operation and maintenance of Rainguns, Sedimentation Tank, ETP , Collection and disposal of wastes etc..	-	9.03

---

**[B] Investment Proposed for next Year**

**Detail of measures for Environmental Protection**

	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
Air pollution control	Installation of portable fogger for dust suppression	10

## **Part-I**

---

**Any other particulars for improving the quality of the environment.**

**Particulars**

-

**Name & Designation**

B V Bhaskar Reddy, Sub Area Manager, Ukni-Junad Sub Area

**UAN No:**

MPCB-ENVIRONMENT\_STATEMENT-0000036065

**Submitted On:**

21-09-2021



# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000036069

### Submitted Date

21-09-2021

## PART A

### Company Information

#### Company Name

WESTERN COALFIELDS LIMITED, WANI RAILWAY SIDING

#### Application UAN number

MPCB-CONSENT-0000082303

#### Address

Office of the Sub Area Manager, Kolar Pimpri-Pimpalgaon Sub Area, Po.- Ukni, Tal.- Wani, Distt. - Yavatmal, Maharashtra

#### Plot no

-

#### Taluka

wani

#### Village

-

#### Capital Investment (In lakhs)

81.38

#### Scale

L.S.I

#### City

Yavatmal

#### Pincode

445304

#### Person Name

SB Prasad

#### Designation

Sub Area Manager, Kolar Pimpri-Pimpalgaon Sub Area

#### Telephone Number

7447434791

#### Fax Number

-

#### Email

wclsamkolarpimpri@gmail.com

#### Region

SRO-Chandrapur

#### Industry Category

Green

#### Industry Type

G59 Mineral stack yard / Railway sidings

#### Last Environmental statement submitted online

no

#### Consent Number

MPCB-CONSENT-0000082303

#### Consent Issue Date

12.12.2019

#### Consent Valid Upto

30.09.2022

#### Establishment Year

1992

#### Date of last environment statement submitted

Sep 30 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

### Product Information

#### Product Name

Loading and unloading of Coal (Coal Stock Yard)

#### Consent Quantity

4.8

#### Actual Quantity

1.85

#### UOM

MT/A

### By-product Information

#### By Product Name

-

#### Consent Quantity

0

#### Actual Quantity

0

#### UOM

Ton/Y

Part-B (Water & Raw Material Consumption)

<u>1) Water Consumption in m3/day</u>			
Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day	
	100.00	100.00	
Cooling	0.00	0.00	
Domestic	1.00	1.00	
All others	0.00	0.00	
Total	101.00	101.00	

<u>2) Effluent Generation in CMD / MLD</u>			
Particulars	Consent Quantity	Actual Quantity	UOM
-	0	0	CMD

<u>2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)</u>			
Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
OTHERS	0	0	CMD

<u>3) Raw Material Consumption (Consumption of raw material per unit of product)</u>			
Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
-	0	0	Kg/Annum

<u>4) Fuel Consumption</u>			
Fuel Name	Consent quantity	Actual Quantity	UOM
--NA--	0	0	KL/A

Part-C

<u>Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)</u>					
<u>[A] Water</u>					
Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
-	0	0	-	-	-
<u>[B] Air (Stack)</u>					
Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/NM3) Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
NA	0	0	-	-	-

Part-D

<u>HAZARDOUS WASTES</u>				
<u>1) From Process</u>				
Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year		UOM
0	0	0		KL/A

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	Ton/Y

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	0	0	Ton/Y

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	0	0	Ton/Y

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	Ton/Y

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
0	0	Ton/Y	-

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
NA	0	Ton/Y	-

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Impact of the pollution Control measures taken	0	0	0	0	0	0

Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution. [A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Regular water sprinkling is being done with mobile tanker every day	-	0

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**[B] Investment Proposed for next Year**

<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
-	-	0

**Part-I**

---

**Any other particulars for improving the quality of the environment.**

**Particulars**

-

**Name & Designation**

S B Prasad , Sub Area Manager

**UAN No:**

MPCB-ENVIRONMENT\_STATEMENT-0000036069

**Submitted On:**

21-09-2021





# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000037249

### Submitted Date

27-09-2021

## PART A

### Company Information

#### Company Name

Western Coalfields Limited, Pimpalgaon Open Cast Mine

#### Application UAN number

-

#### Address

Office of the Sub Area Manager, Kolar Pimpri- Pimpalgaon  
Sub Area, Po. - Ukni, Tal.- Wani, Distt. - Yavatmal

#### Plot no

79

#### Taluka

Wani

#### Village

-

#### Capital Investment (In lakhs)

6368.1

#### Scale

L.S.I.

#### City

WANI

#### Pincode

445304

#### Person Name

S B PRASAD

#### Designation

Sub Area Manager, Kolarpimpri- Pimpalgaon  
Sub Area

#### Telephone Number

7447339316

#### Fax Number

07239241357

#### Email

wnaenv@gmail.com

#### Region

SRO-Chandrapur

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

MPCB-CONSENT-0000041537

#### Consent Issue Date

Approved in CAC meeting dated 03-04-2019

#### Consent Valid Upto

31.08.2023

#### Establishment Year

1993

#### Date of last environment statement submitted

Sep 29 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

### Product Information

#### Product Name

coal

#### Consent Quantity

1.5

#### Actual Quantity

0

#### UOM

MT/A

### By-product Information

#### By Product Name

-

#### Consent Quantity

0

#### Actual Quantity

0

#### UOM

Ton/Y

## Part-B (Water & Raw Material Consumption)

### 1) Water Consumption in m3/day

<b>Water Consumption for Process</b>	<b>Consent Quantity in m3/day</b>	<b>Actual Quantity in m3/day</b>
	0.00	0.00
<b>Cooling</b>	0.00	0.00
<b>Domestic</b>	750.00	0.00
<b>All others</b>	0.00	0.00
<b>Total</b>	750.00	0.00

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Daily Trade Effluent (Mine Discharge)	0	0	CMD

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
Coal (Cubic Meter/Tonnes)	0	0	CMD

3) Raw Material Consumption (Consumption of raw material per unit of product)

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
Explosives (Kg/Tonnes)	0	0	Kg/Annum

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
High Speed diesel (Litre)	0	0	KL/A

Part-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

[A] Water

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
-	0	0	-	-	-

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/NM3) Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
-	0	0	-	-	-

Part-D

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	Ton/Y

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
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Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
-	0	0	Ton/Y

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
-	0	0	Ton/Y

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	Ton/Y

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
0	0	Ton/Y	-

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
-	0	Ton/Y	-

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Impact of the pollution control measures taken	0	0	0	187606	0	0

Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.  
[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
-	-	0

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
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## Part-I

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**Any other particulars for improving the quality of the environment.**

**Particulars**

-

**Name & Designation**

Sub Area Manager, Kolarpimpri-Pimpalgaon Sub Area

**UAN No:**

MPCB-ENVIRONMENT\_STATEMENT-0000037249

**Submitted On:**

27-09-2021



# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

**Unique Application Number**

MPCB-ENVIRONMENT\_STATEMENT-0000036706

**Submitted Date**

24-09-2021

## PART A

### Company Information

**Company Name**

M/s Western Coalfields Limited, Rajur  
Underground Coal Mine

**Application UAN number**

-

**Address**

Office of the Sub Area Manager, Rajur Sub  
Area, Po.- Rajur, Tal.- Wani, Distt. -  
Yavatmal, Maharashtra

**Plot no**

168

**Taluka**

Wani

**Village**

Rajur

**Capital Investment (In lakhs)**

4688.69

**Scale**

L.S.I

**City**

Wani

**Pincode**

445304

**Person Name**

Satyendra Kumar

**Designation**

Sub Area Manager, Ghonsa Sub Area

**Telephone Number**

8380095385

**Fax Number**

07239241357

**Email**

rajursubareawcl@gmail.com

**Region**

SRO-Chandrapur

**Industry Category**

Red

**Industry Type**

R35 Mining and ore beneficiation

**Last Environmental statement  
submitted online**

yes

**Consent Number**

BO/JD(APC)/TB-2/UANno89584/R/CC-2012000056

**Consent Issue Date**

2020-12-01

**Consent Valid Upto**

2022-04-30

**Establishment Year**

1973

**Date of last environment statement  
submitted**

Sep 29 2020 12:00:00:000AM

**Industry Category Primary (STC  
Code) & Secondary (STC Code)**

### Product Information

**Product Name**

Coal

**Consent Quantity**

0.21

**Actual Quantity**

0.056

**UOM**

MT/A

### By-product Information

**By Product Name**

-

**Consent Quantity**

0

**Actual Quantity**

0

**UOM**

Ton/Y

## Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day	
	200.00	50.00	
Cooling	0.00	0.00	
Domestic	1053.00	320.00	
All others	0.00	0.00	
Total	1253.00	370.00	

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Mine Discharge	13956	10630	CMD

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
Coal	2.46	2.41	CMD

3) Raw Material Consumption (Consumption of raw material per unit of product)

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
Explosives	0.44	0.33	Kg/Annum

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
Diesel	0	7.1	KL/A

Part-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

[A] Water

Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour	Percentage of variation from prescribed standards with reasons	Standard	Reason
	Quantity	Concentration	%variation		
Water quality monitoring reports have been attached	0	0	-	-	-

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/NM3)	Percentage of variation from prescribed standards with reasons	Standard	Reason
	Quantity	Concentration	%variation		
NA	0	0	-	-	-

Part-D

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
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2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	MT/A

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
-	0	0	MT/A

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
-	0	0	MT/A

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	MT/A

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
0	0	MT/A	-

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
-	0	MT/A	-

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Impact of the pollution Control measures taken	83	0.0091	10842	885522	0	0

Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.  
[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
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-

-

0

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**[B] Investment Proposed for next Year**

<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
-	-	0

**Part-I**

---

**Any other particulars for improving the quality of the environment.**

**Particulars**

-

**Name & Designation**

Sub Area Manager, Ghonsa Sub Area

**UAN No:**

MPCB-ENVIRONMENT\_STATEMENT-0000036706

**Submitted On:**

24-09-2021





# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000036065

### Submitted Date

21-09-2021

## PART A

### Company Information

#### Company Name

Western Coalfields Limited, Ukni Opencast Mine

#### Application UAN number

-

#### Address

Office of the Sub Area Manager, Ukni - Junad Sub Area,  
PO. - Ukni, Tal- Wani, Dist - Yavatmal

#### Plot no

669

#### Taluka

Wani

#### Village

Ukni

#### Capital Investment (In lakhs)

31344.6

#### Scale

L.S.I

#### City

Wani

#### Pincode

445304

#### Person Name

B V Bhaskar Reddy

#### Designation

Sub Area Manager, Ukni-Junad Sub Area

#### Telephone Number

9607922288

#### Fax Number

07239241357

#### Email

wclsamujsa@gmail.com

#### Region

SRO-Chandrapur

#### Industry Category

Red

#### Industry Type

R35 Mining and ore beneficiation

#### Last Environmental statement submitted online

yes

#### Consent Number

MPCB-CONSENT-0000087450

#### Consent Issue Date

29.07.2020

#### Consent Valid Upto

31.03.2021

#### Establishment Year

1993

#### Date of last environment statement submitted

Sep 26 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

### Product Information

#### Product Name

COAL

#### Consent Quantity

2.2

#### Actual Quantity

1.53

#### UOM

MT/A

### By-product Information

#### By Product Name

-

#### Consent Quantity

0

#### Actual Quantity

0

#### UOM

CMD

## Part-B (Water & Raw Material Consumption)

### 1) Water Consumption in m3/day

#### Water Consumption for

#### Consent Quantity in m3/day

#### Actual Quantity in m3/day

<b>Process</b>	380.00	380.00
<b>Cooling</b>	0.00	0.00
<b>Domestic</b>	100.00	26.00
<b>All others</b>	100.00	100.00
<b>Total</b>	580.00	506.00

## 2) Effluent Generation in CMD / MLD

<b>Particulars</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Mine discharge	4603	4540	CMD

## 2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

<b>Name of Products (Production)</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Coal	0.1	0.12	CMD

## 3) Raw Material Consumption (Consumption of raw material per unit of product)

<b>Name of Raw Materials</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Explosives	1.92	2.69	Kg/Annum

## 4) Fuel Consumption

<b>Fuel Name</b>	<b>Consent quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Diesel	0	4977.75	KL/A

## Part-C

### Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

#### [A] Water

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour</b>	<b>Percentage of variation from prescribed standards with reasons</b>	<b>Standard</b>	<b>Reason</b>
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>		
Water quality monitoring reports have been attached	0	0	-	-	-

#### [B] Air (Stack)

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/NM3)</b>	<b>Percentage of variation from prescribed standards with reasons</b>	<b>Standard</b>	<b>Reason</b>
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>		
NA	0	0	-	-	-

## Part-D

### HAZARDOUS WASTES

#### 1) From Process

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
5.1 Used or spent oil	50	48.86	KL/A
5.2 Wastes or residues containing oil	7.14	5.28	Ton/Y

## 2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
34.2 Sludge from treatment of waste water arising out of cleaning / disposal of barrels / containers	9.38	36.84	Ton/Y

## Part-E

### SOLID WASTES

#### 1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
-	0	0	CMD

#### 2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
-	0	0	CMD

#### 3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	CMD

## Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

#### 1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
5.1 Used or spent oil	48.6	KL/A	-
5.2 Wastes or residues containing oil	5.28	Ton/Y	-
34.2 Sludge from treatment of waste water arising out of cleaning / disposal of barrels / containers	36.84	Ton/Y	-

#### 2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
-	0	CMD	-

## Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Impact of the pollution Control measures taken	0	0	0	480887	0	0

## Part-H

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**Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.**

**[A] Investment made during the period of Environmental Statement**

**Detail of measures for Environmental Protection**

	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
Operation and maintenance of Rainguns, Sedimentation Tank, ETP , Collection and disposal of wastes etc..	-	9.03

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**[B] Investment Proposed for next Year**

**Detail of measures for Environmental Protection**

	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
Air pollution control	Installation of portable fogger for dust suppression	10

## **Part-I**

---

**Any other particulars for improving the quality of the environment.**

**Particulars**

-

**Name & Designation**

B V Bhaskar Reddy, Sub Area Manager, Ukni-Junad Sub Area

**UAN No:**

MPCB-ENVIRONMENT\_STATEMENT-0000036065

**Submitted On:**

21-09-2021



# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000036069

### Submitted Date

21-09-2021

## PART A

### Company Information

#### Company Name

WESTERN COALFIELDS LIMITED, WANI RAILWAY SIDING

#### Application UAN number

MPCB-CONSENT-0000082303

#### Address

Office of the Sub Area Manager, Kolar Pimpri-Pimpalgaon Sub Area, Po.- Ukni, Tal.- Wani, Distt. - Yavatmal, Maharashtra

#### Plot no

-

#### Taluka

wani

#### Village

-

#### Capital Investment (In lakhs)

81.38

#### Scale

L.S.I

#### City

Yavatmal

#### Pincode

445304

#### Person Name

SB Prasad

#### Designation

Sub Area Manager, Kolar Pimpri-Pimpalgaon Sub Area

#### Telephone Number

7447434791

#### Fax Number

-

#### Email

wclsamkolarpimpri@gmail.com

#### Region

SRO-Chandrapur

#### Industry Category

Green

#### Industry Type

G59 Mineral stack yard / Railway sidings

#### Last Environmental statement submitted online

no

#### Consent Number

MPCB-CONSENT-0000082303

#### Consent Issue Date

12.12.2019

#### Consent Valid Upto

30.09.2022

#### Establishment Year

1992

#### Date of last environment statement submitted

Sep 30 2020 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

### Product Information

#### Product Name

Loading and unloading of Coal (Coal Stock Yard)

#### Consent Quantity

4.8

#### Actual Quantity

1.85

#### UOM

MT/A

### By-product Information

#### By Product Name

-

#### Consent Quantity

0

#### Actual Quantity

0

#### UOM

Ton/Y

Part-B (Water & Raw Material Consumption)

<u>1) Water Consumption in m3/day</u>		
Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
	100.00	100.00
Cooling	0.00	0.00
Domestic	1.00	1.00
All others	0.00	0.00
Total	101.00	101.00

<u>2) Effluent Generation in CMD / MLD</u>			
Particulars	Consent Quantity	Actual Quantity	UOM
-	0	0	CMD

<u>2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)</u>				
Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM	
OTHERS	0	0	CMD	

<u>3) Raw Material Consumption (Consumption of raw material per unit of product)</u>				
Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM	
-	0	0	Kg/Annum	

<u>4) Fuel Consumption</u>			
Fuel Name	Consent quantity	Actual Quantity	UOM
--NA--	0	0	KL/A

Part-C

<u>Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)</u>					
<u>[A] Water</u>					
Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
-	0	0	-	-	-

<u>[B] Air (Stack)</u>					
Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/NM3) Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
NA	0	0	-	-	-

Part-D

<u>HAZARDOUS WASTES</u>				
<u>1) From Process</u>				
Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM	
0	0	0	KL/A	

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	Ton/Y

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	0	0	Ton/Y

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	0	0	Ton/Y

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	Ton/Y

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
0	0	Ton/Y	-

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
NA	0	Ton/Y	-

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Impact of the pollution Control measures taken	0	0	0	0	0	0

Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution. [A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Regular water sprinkling is being done with mobile tanker every day	-	0

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**[B] Investment Proposed for next Year**

<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
-	-	0

**Part-I**

---

**Any other particulars for improving the quality of the environment.**

**Particulars**

-

**Name & Designation**

S B Prasad , Sub Area Manager

**UAN No:**

MPCB-ENVIRONMENT\_STATEMENT-0000036069

**Submitted On:**

21-09-2021



**ENVIRONMENTAL AUDIT STATEMENT**  
**(FORM-V)**

**AMBARA OC PATCHES MINE**

**FY 2020-21**

**Prepared by-**



**WESTERN COALFIELDS LIMITED**  
**KANHAN AREA**  
**PO: DUNGARIA, CHHINDWARA (MP)-480553**

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## **EXECUTIVE SUMMARY**

E.1.0 This Environment Statement Report has been prepared as per gazette notification no. G.S.R. 329(E) dated 13<sup>th</sup> March, 1992 laid down by Ministry of Environment and Forest. The 'Environment Audit' has been subsequently renamed to '**Environment Statement**' vide MoEF gazette notification No. G.S.R. 386(E) dated 22nd April, 1993.

E.2.0 Ambara Open Cast Mine of Western Coalfields Ltd. is situated in Pench Kanhan Valley Coalfield, which lies in Chhindwara District of Madhya Pradesh State.

E.3.0 The planned production capacity of Ambara Open Cast Mine is 1.00 MTY. The Ministry of Environment & Forest, Govt. of India vide No. J-11015/252/2007/IA-II(M) dt.19.03.2008 has granted Environmental Clearance to the Underground Mine. **The project produced 0.515 MT of coal during the year 2020-21.**

E.4.0 Quarterly environmental monitoring has been carried out by CMPDI for air, water and noise parameters. The results of the four quarters of 2020-21 are enclosed.

E.5.0 Environmental Statement report reveals the following facts regarding environmental aspect of this project:

E.5.1 The concentration of SO<sub>2</sub>, NO<sub>x</sub> in ambient air in core zone is well within the permissible limits.

E.5.2 No hazardous waste material is being produced either from any process or any pollution control facilities.

## **FORM-V**

### **ENVIRONMENT STATEMENT FOR COAL MINING PROJECT FINANCIAL YEAR ENDING MARCH 2021.**

#### **PART-A**

- i. **Name and address of the Mine-** Ambara Opencast patches Mine, WCL Kanhan Area, PO- Ambara, District-Chhindwara, Pin-480449.
- ii. **Industry Category-** Category A
- iii. **Production Capacity-** 1.0 MTY
- iv. **Date of last Environmental Statement submitted-** September 2020.

#### **PART - B**

### **WATER AND RAW MATERIAL CONSUMPTION**

**Table-A Water Consumption on Usage Pattern**

<b>Sno.</b>	<b>Water Consumption Category</b>	<b>Quantity/usage (in KL/day)</b>
<b>a)</b>	<b>Industrial</b>	
i.	Dust Suppression	50 KL/day
ii.	Fir Fighting	Nil
iii.	Workshop and others	Nil
iv.	Green Belt/Plantation	Nil
v.	CHP Beneficiation	Nil
vi.	Discharged to adjacent abandoned OC patch	400 KL/day
<b>b)</b>	<b>Domestic</b>	
i.	Domestic use	900 KL/day
ii.	Green Belt/Plantation	Nil
	<b>TOTAL</b>	<b>1350 KL/day</b>

**Table-B Water Consumption against Production (including recycled)**

Name of Product	Water Consumption per unit of product (including recycled)	
	During the previous FY 2019-20	During the current FY 2020-21
COAL	0.934 kl/t of coal produced	0.930 kl/t of coal produced

**Table-C Raw Material Consumption**

Name of raw material	Name of product	Consumption of raw material per unit of product	
		During the previous FY 2019-20	During the current FY 2020-21
Explosive (Kg/ton)	Coal	2.00	0.934

**PART-C**

**Pollution discharged to Environment/unit of output (Parameters specified in the Consent issued)**

Sno.	Pollutants	Quantity of Pollution generated	Percentage variation from prescribed standards with reasons
a)	Water	Water Quality Monitoring reports attached for the year 2020-21	Values of parameters are well within the prescribed limits.
b)	Air	Air Quality Monitoring reports attached for the year 2020-21	Values of parameters are well within the prescribed limits.
c)	Noise	Noise Quality Monitoring reports attached for the year 2020-21	Values of parameters are well within the prescribed limits.

**PART-D**  
**HAZARDOUS WASTES**

Sno.	Hazardous Waste	Total Quantity	
		During the previous FY 2019-20	During the current FY 2020-21
a)	From Process	Nil	Nil
b)	From Pollution Control Facilities	Nil	Nil

**PART-E**  
**SOLID WASTES**

Sno.	Waste Generation	Total Quantity	
		During the previous FY 2019-20	During the current FY 2020-21
a)	From Process (Overburden)	1.015 Mm <sup>3</sup>	1.683 Mm <sup>3</sup>
b)	From Pollution Control Facilities	Nil	Nil
c)	Quantity recycled or dumped within quarry void	1.015 Mm <sup>3</sup>	1.683 Mm <sup>3</sup>
d)	Sold	Nil	Nil
e)	Disposed (as external dumps)	Nil	Nil

**PART-F**

**Please Specify the Characteristics (In Terms of Concern And Quantum) of Hazardous as well as Solid Wastes and indicate the Disposal Practice adopted for both these categories of wastes.**

Hazardous wastes is not being produced either from mining operation or from any pollution control facilities.

Solid Wastes generated from the mine are in form of Overburden comprising of sandstone, sandy and clayey shales which are either backfilled in quarry or deposited on OB dump.

## **PART-G**

### **Impact of Pollution Control Measures on Conservation of Natural Resources and subsequently on Cost of Production.**

In order to carry out mining in an eco-friendly manner, following pollution control measures have been implemented.

#### **1.0 AIR POLLUTION CONTROL MEASURES**

The following measures are being taken to control air pollution:

- (a) Mobile water tankers (Capacity – 4500 Litres and 12000 litres) are used for dust suppression on haul road and coal transport roads.
- (b) Wind breaking wall provided at Palachourai siding (Height – 20 feet, Length -380 m)
- (c) The mine has small open cast patches which operate for short periods only. Hence, fixed sprinklers are not required.
- (d) Road from Maori village to Palachourai siding (Govt. Road) is already black topped. Length – 3.90 km
- (e) All trucks carrying coal out of mine lease area are covered with tarpaulin. Trucks are loaded optimally at the weighbridge before dispatch.

#### **2.0 WATER POLLUTION CONTROL MEASURES**

The following measures are taken to control water pollution from the mine:

- (a) Abandoned OC quarries are being used for supplying water to Ambara colony and Ambara village for domestic purpose. Coagulation and Sedimentation arrangement for mine water is provided prior to supply of water.
- (b) Individual Septic Tank & Soak Pit provided at each quarter of combined township of Ambara UG, Ambara OC and Mohan UG mines.
- (c) Garland drains have been provided around the OB dumps. The drains are de-silted before the onset of monsoon.

- (d) There is no departmental HEMM involved and there is no workshop for HEMM.
- (e) Quarterly Ground water levels and annually ground water quality in the month of May is monitored through network of existing wells through CMPDIL.

### 3.0. **NOISE POLLUTION CONTROL MEASURES**

Maintenance of transport vehicles, development of green belt in between industrial complex & residential area, ear plugs & helmets are issued to the workers.

## **PART-H**

### **Additional Investment Proposal for Environmental Protection including abatement of Pollution.**

The project has incurred an expenditure on environmental management, details of which are as under:

<b>Sno.</b>	<b>Particulars</b>	<b>Amount</b>
1.	Consent Fees	3.26 lakhs
2.	Water Cess	Nil
3.	Environmental Monitoring Costs	Done by CMPDIL.
4.	Air Pollution Control Measures	0.86 lakhs
5.	Water Conservation Measures	3.51 lakhs

**Note: Air Pollution Control Measures** = ( i.) Cost of hiring of water tankers for dust suppression on coal transport road near siding.

### **Future Programme for Environmental management Measures:**

Mine likely to discontinue from December 2021, due to exhaustion of reserves in Mohan OC Phase-IV patch.



## **PART-I**

### **Any other Particulars in respect of Environmental Protection and abatement of Pollution**

The regular monitoring of the ambient air and water quality is being done in and around core zone and the quarterly monitoring report is submitted to the Madhya Pradesh State Pollution Control Board, Bhopal and the Ministry of Environment and Forest Regional Office, Bhopal.

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## ENVIRONMENTAL MONITORING REPORT

### AMBARA OC

KANHAN AREA

**WESTERN COALFIELDS LTD.**

JOB NO. 4634420035



**MAY-2020**

**Environment Laboratory**

**CMPDI**

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY

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<b>2</b>	<b>AIR QUALITY MONITORING DATA</b>	<b>4</b>
<b>4</b>	<b>NOISE LEVEL DATA</b>	<b>5</b>

## **INTRODUCTION**

Ambara OC Project is located in Chhindwara district of Madhya Pradesh. The project is administered by Kanhan Area of Western Coalfields Limited. The climate of the area is tropical. Transportation roads, agricultural and local activities, vehicular traffic etc also contribute to the pollution.

### **Sampling Location:**

#### **Ambient Air Quality Monitoring locations:**

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER OFFICE :	KAOA1
2	PIT OFFICE- MOHAN:	KAOA2
3	COLONY- HEALTH CENTRE:	KAOA3
4	AMBARA VILLAGE:	KAOA4

#### **Fugitive Dust Monitoring locations:**

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP:	KAOF1

#### **Noise Level Monitoring location :**

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER OFFICE:	KAON1
2	COLONY (MOHAN/MAORI):	KAON2

#### **Frequency of Monitoring:**

**AIR:** Frequency of monitoring is as per the Env. (Protection) Amendment Rules published vide Gazette dt. 25.9.2000.

**WATER:** Water quality is monitored on fortnightly basis

**NOISE:** Noise level is monitored on fortnightly basis.

## Test Report

### Air quality monitoring data

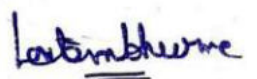
TSET REPORT NO.	RIN/TR/MAY-20/A74	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD :LSOP 4	
NAME OF PROJECT	AMBARA OC	SAMPLING PLAN : LQR 47	

MANAGER OFFICE : KAOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
15.05.2020	134	99	24	17	<10
17.05.2020	112	79	26	15	11
<b>TLV</b>	<b>600</b>	<b>300</b>	<b>60</b>	<b>120</b>	<b>120</b>

PIT OFFICE- MOHAN: KAOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
15.05.2020	110	88	21	13	<10
18.05.2020	107	85	25	15	<10
<b>TLV</b>	<b>600</b>	<b>300</b>	<b>60</b>	<b>120</b>	<b>120</b>

COLONY- HEALTH CENTRE: KAOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
15.05.2020	100	69	22	15	10
22.05.2020	69	44	25	14	<10
<b>TLV</b>	<b>200</b>	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>

AMBARA VILLAGE: KAOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
12.05.2020	127	97	20	13	<10
17.05.2020	104	75	19	10	<10
<b>TLV</b>	<b>200</b>	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU  
AUTHORIZED SIGNATORY

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## NOISE LEVEL DATA

**NAME OF AREA: KANHAN AREA**                      **YEAR: 2020**  
**NAME OF PROJECT: AMBARA OC**                      **MONTH: MAY**

MANAGER OFFICE: KAON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	13.05.2020	50.8	49.2
MAY-2020	28.05.2020	52.4	49.7
<b>TLV</b>		<b>75</b>	<b>70</b>

COLONY (MOHAN/MAORI): KAON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	13.05.2020	44.6	43.4
MAY-2020	28.05.2020	46.4	43.8
<b>TLV</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

# AMBARA OC

KANHAN AREA

**WESTERN COALFIELDS LTD.**

JOB NO. 4634420035



**JUNE 2020**

**Environment Laboratory**

**CMPDI**

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY

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### **INTRODUCTION**

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##### **Ambient Air Quality Monitoring locations:**

SL. NO.	LOCATION DETAIL	LOCATION CODE
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2	PIT OFFICE- MOHAN:	KAOA2
3	COLONY- HEALTH CENTRE:	KAOA3
4	AMBARA VILLAGE:	KAOA4

##### **Fugitive Dust Monitoring locations:**

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP:	KAOF1

##### **Noise Level Monitoring location :**

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER OFFICE:	KAON1
2	COLONY (MOHAN/MAORI):	KAON2

##### **Frequency of Monitoring:**

**AIR:** Frequency of monitoring is as per the Env. (Protection) Amendment Rules published vide Gazette dt. 25.9.2000.

**WATER:** Water quality is monitored on fortnightly basis

**NOISE:** Noise level is monitored on fortnightly basis.

## Test Report

### Air quality monitoring data

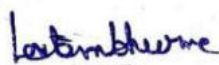
TEST REPORT NO.	RIN/TR/JUNE-20/A74	DATE OF ISSUE	31-07-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD :LSOP 4	
NAME OF PROJECT	AMBARA OC	SAMPLING PLAN : LQR 47	

MANAGER OFFICE : KAOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
12-06-20	109	69	33	12	<10
26-06-20	90	58	24	10	<10
TLV	600	300	60	120	120

PIT OFFICE- MOHAN: KAOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
12-06-20	96	70	30	15	11
26-06-20	74	56	23	11	<10
TLV	600	300	60	120	120

COLONY- HEALTH CENTRE: KAOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
11-06-20	99	63	29	13	<10
26-06-20	83	69	22	11	<10
TLV	200	100	60	80	80

AMBARA VILLAGE: KAOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
12-06-20	102	72	32	14	<10
27-06-20	85	60	22	9	<10
TLV	200	100	60	80	80



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU  
AUTHORIZED SIGNATORY

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## NOISE LEVEL DATA

**NAME OF AREA: KANHAN AREA**  
**NAME OF PROJECT: AMBARA OC**

**YEAR: 2020**  
**MONTH: JUNE**

MANAGER OFFICE: KAON1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	12-06-20	49.6
JUNE 2020	25-06-20	49.8
<b>TLV</b>		<b>75</b>

COLONY (MOHAN/MAORI): KAON2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	10-06-20	46.2
JUNE 2020	26-06-20	46.5
<b>TLV</b>		<b>55</b>

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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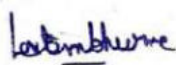
TEST REPORT NO.	RIN/TR/JULY-20/68	DATE OF ISSUE	31.08.2020
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	AMBARA OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE: KAOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
17-Jul-20	18-Jul-20	85	68	27	13	<10	CLOUDY SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

PIT OFFICE-MOHAN: KAUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
17-Jul-20	18-Jul-20	80	58	27	12	<10	CLOUDY SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY HEALTH CENTER: KMUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
16-Jul-20	17-Jul-20	83	60	33	15	<10	CLOUDY SKY, CALM
NAAQS, 2009		-	100	60	80	80	

AMBARA VILLAGE: KMUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
11-Jul-20	12-Jul-20	70	52	25	11	<10	CLOUDY SKY, CALM
17-Jul-20	18-Jul-20	92	61	28	16	11	CLOUDY SKY, CALM
NAAQS, 2009		-	100	60	80	80	

  
Analysed by

  
Authorised Signatory

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**FUGITIVE DUST MONITORING**

TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017) & PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LSOP 4		

CHKAOF1					
DATE(dd:mm:yy) ) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )			ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	
FROM	TO	5	5	2	
16-Jul-20	17-Jul-20	116	76	49	CLOUDY SKY, CALM

PALACHAURI SIDINKAOF2					
DATE(dd:mm:yy) ) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )			ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	
FROM	TO	5	5	2	
16-Jul-20	17-Jul-20	142	91	60	CLOUDY SKY, CALM

**NOISE LEVEL MONITORING DATA**

MANAGER OFFICE: KAON1		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
	DETECTION LIMIT	20
JULY.2020	15-Jul-20	49.7
JULY.2020	16-Jul-20	47.7
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>

COLONY(MOHAN/MAORI): KMUN2		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
	DETECTION LIMIT	20
JULY.2020	15-Jul-20	44.9
JULY.2020	16-Jul-20	45.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>

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## **ENVIRONMENTAL MONITORING REPORT**

### **KANHAN AREA**

**AMBARA OC**

**WESTERN COALFIELDS LTD.**

JOB NO. 4634420035




**AUGUST 2020**

**Environment Laboratory**

**CMPDI**

**REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014**

**AN ISO 9001:2015 COMPANY**

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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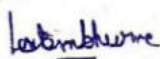
TEST REPORT NO.	RIN/TR/AUGUST-20/68	DATE OF ISSUE	30.09.2020
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	AMBARA OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE: KAOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
13.08.2020	14.08.2020	79	52	22	15	BDL	Cloudy, Calm
27.08.2020	28.08.2020	69	48	25	14	BDL	Rainy, Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

PIT OFFICE-MOHAN: KAUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
13.08.20	14.08.2020	76	50	31	16	12	Cloudy, Calm
26.08.2020	27.08.2020	69	47	35	14	BDL	Rainy, Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY HEALTH CENTER: KMUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
13.08.2020	14.08.2020	76	48	29	12	BDL	Cloudy, Calm
NAAQS, 2009		-	100	60	80	80	

AMBARA VILLAGE: KMUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
13.08.2020	14.08.2020	87	55	33	11	BDL	Cloudy, Calm
NAAQS, 2009		-	100	60	80	80	



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**NOISE LEVEL MONITORING DATA**

MANAGER OFFICE: KAON1	
MONTH	DATE OF SAMPLE COLLECTION
	NOISE LEVEL IN dB(A)
	DAY TIME
	DETECTION LIMIT
Aug-20	12.08.2020
Aug-20	27.08.2020
NOISE POLLUTION (REGULATION AND CONTROL) RULES	
75	

COLONY(MOHAN/MAORI): KMUN2	
MONTH	DATE OF SAMPLE COLLECTION
	NOISE LEVEL IN dB(A)
	DAY TIME
	DETECTION LIMIT
Aug-20	12.08.2020
Aug-20	27.08.2020
NOISE POLLUTION (REGULATION AND CONTROL) RULES	
55	

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## ENVIRONMENTAL MONITORING REPORT

### AMBARA OC

KANHAN AREA

**WESTERN COALFIELDS LTD.**

JOB NO. 4634420035



SEPTEMBER 2020


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

### CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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TC-7102

TEST REPORT NO.	RIN/TR/SEPTEMBER-20/68	DATE OF ISSUE	30.10.2020
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	AMBARA OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE: KAOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
10.09.20	11.09.20	74	56	29	16	BDL	CLEAR SKY,LIGHT BREEZE
19.09.20	20.09.20	69	49	22	14	BDL	CLOUDY LIGHT BREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

PIT OFFICE-MOHAN: KAUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
10.09.20	11.09.20	78	56	30	13	BDL	CLEAR SKY,LIGHT BREEZE
19.09.20	20.09.20	70	47	21	15	12	CLOUDY LIGHT BREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY HEALTH CENTER: KMUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09.09.20	10.09.20	86	59	25	11	BDL	CLEAR SKY,LIGHT BREEZE
20.09.20	21.09.20	79	51	30	14	BDL	CLOUDY CALM
NAAQS, 2009		-	100	60	80	80	

AMBARA VILLAGE: KMUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
15.09.20	16.09.20	93	82	24	12	BDL	CLEAR,CALM
16.09.20	17.09.20	82	71	27	10	BDL	CLOUDY,CALM
NAAQS, 2009		-	100	60	80	80	



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**NOISE LEVEL MONITORING DATA**

MANAGER OFFICE:		KAON1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
Sep-20	07.09.2020	51.4	50.2
Sep-20	22.09.2020	52.3	49.1
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY(MOHAN/MAORI):		KMUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
Sep-20	07.09.2020	48.9	40.6
Sep-20	22.09.2020	49.8	41.7
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

### AMBARA OC

KANHAN AREA

**WESTERN COALFIELDS LTD.**

JOB NO. 4634420035



OCTOBER 2020


**Environment Laboratory**

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

**CMPDI**

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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TC-7102

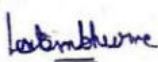
TEST REPORT NO.	RIN/TR/OCTOBER-20/68	DATE OF ISSUE	30.11.2020
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	AMBARA OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE: KAOA1							
DATE(dd:mm:yy) ) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
02.10.20	03.10.20	99	72	25	14	BDL	CLEAR SKY,LIGHT BREEZE
17.10.20.	18.10.20	164	101	51	13	BDL	CALM/CLEAR SKY
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

PIT OFFICE-MOHAN: KAU2							
DATE(dd:mm:yy) ) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
02.10.20	03.10.20	92	78	27	14	10	CLEAR SKY,LIGHT BREEZE
17.10.20	18.10.20	181	134	57	14	BDL	CALM/CLEAR SKY
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY HEALTH CENTER: KMUA3							
DATE(dd:mm:yy) ) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
03.10.20	04.10.20	69	40	23	10	BDL	CLEAR SKY,LIGHT BREEZE
17.10.20	18.10.20	120	70	45	10	BDL	CALM/CLEAR SKY
NAAQS, 2009		-	100	60	80	80	

AMBARA VILLAGE: KMUA4							
DATE(dd:mm:yy) ) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
02.10.20	03.10.20	71	54	26	12	BDL	CLEAR SKY,LIGHT BREEZE
17.10.20.	18.10.20	115	82	26	11	BDL	CALM/CLEAR SKY
NAAQS, 2009		-	100	60	80	80	



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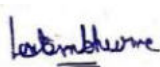
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**FUGITIVE DUST MONITORING**

TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017) & PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LSOP 4		

MANAGER OFFICE CHP: KAO F1					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )			ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	
FROM	TO	5	5	2	
03.10.20	04.10.20	122	87	55	LIGHT BREEZE/CLEAR SKY

PALACHAURI SIDING KAO F2					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )			ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	
FROM	TO	5	5	2	
03.10.20	04.10.20	119	75	51	LIGHT BREEZE/CLEAR SKY



Analysed by


Deepanshu sahu  
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**NOISE LEVEL MONITORING DATA**

<b>MANAGER OFFICE: KAON1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
Oct-20	09.10.20	51.4	50.2
Oct-20	21.10.20	52.3	51.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY(MOHAN/MAORI): KMUN2</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
Oct-20	09.10.20	48.9	40.6
Oct-20	21.10.20	47.5	41.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

### AMBARA OC

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



NOVEMBER 2020

### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

### CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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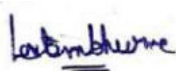
TEST REPORT NO.		RIN/TR/NOV-20/68		DATE OF ISSUE		31.12.2020	
NAME OF CUSTOMER		GM(ENV.), WCL(HQ), NAGPUR					
CUSTOMER LETTER REFERENCE NO.		WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20					
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)						
NAME OF AREA		KANHAN		SAMPLING PLAN : LQR 47			
NAME OF PROJECT		AMBARA OC					
SAMPLE DESCRIPTION	Air sample						
SAMPLING METHOD : LSOP 4							

MANAGER OFFICE: KAOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
03.11.20	04.11.20	172	134	55	15	BDL	Cloudy/Calm
18.11.20	19.11.20	191	121	43	16	11	Cloudy/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

PIT OFFICE-MOHAN: KAU2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
03.11.20	04.11.20	204	147	46	15	12	Cloudy/Calm
18.11.20	19.11.20	197	122	39	14	BDL	Cloudy/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY HEALTH CENTER: KMUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
03.11.20	04.11.20	144	82	30	10	BDL	Cloudy/Calm
18.11.20	19.11.20	127	69	27	9	BDL	Cloudy/Calm
NAAQS, 2009		-	100	60	80	80	

AMBARA VILLAGE: KMUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
03.11.20	04.11.20	110	73	44	8	BDL	Cloudy/Calm
18.11.20	19.11.20	99	61	32	7	BDL	Cloudy/Calm
NAAQS, 2009		-	100	60	80	80	



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**NOISE LEVEL MONITORING DATA**

<b>MANAGER OFFICE: KAON1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
NOV'20	6.11.20	52.8	49.3
NOV'20	18.11.20	51.1	42.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY(MOHAN/MAORI): KMUN2</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
NOV'20	6.11.20	42.3	39.1
NOV'20	18.11.20	46.2	41.1
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

### AMBARA OC

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



DECEMBER 2020


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

### CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/DEC-20/68	DATE OF ISSUE	31.01.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	AMBARA OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE: KAOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
4.12.20	5.12.20	220	177	32	14	11	Clear Sky / Clam
18.12.20	19.12.20	230	169	27	13	10	Clear Sky / Clam
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

PIT OFFICE-MOHAN: KAU2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
4.12.20	5.12.20	199	126	34	12	BDL	Clear Sky / Clam
18.12.20	19.12.20	212	151	30	11	BDL	Clear Sky / Clam
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY HEALTH CENTER: KMUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
4.12.20	5.12.20	122	71	25	10	BDL	Clear Sky / Clam
18.12.20	19.12.20	177	92	29	11	BDL	Clear Sky / Clam
NAAQS, 2009		-	100	60	80	80	

AMBARA VILLAGE: KMUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
4.12.20	5.12.20	134	83	33	12	BDL	Clear Sky / Clam
18.12.20	19.12.20	140	89	27	13	BDL	Clear Sky / Clam
NAAQS, 2009		-	100	60	80	80	

*Latimthume*

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**NOISE LEVEL MONITORING DATA**

<b>MANAGER OFFICE: KAON1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
DEC'20	4.12.20	55.2	50.6
DEC'20	18.12.20	50.6	40.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY(MOHAN/MAORI): KMUN2</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
DEC'20	4.12.2020	58.5	55.5
DEC'20	18.12.2020	52.6	42.7
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

### AMBARA OC

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JANUARY 2021


#### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

#### CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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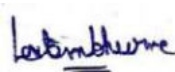
TEST REPORT NO.	RIN/TR/JAN-21/68	DATE OF ISSUE	28.02.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	AMBARA OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE: KAOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
02.01.2021	03.01.2021	205	146	36	14	BDL	Cloudy/Clam
16.01.2021	17.01.2021	219	155	40	15	11	Cloudy/Clam
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

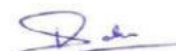
PIT OFFICE-MOHAN: KAUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
02.01.2021	03.01.2021	231	168	38	13	BDL	Cloudy/Calm
16.01.2021	17.01.2021	220	154	45	15	BDL	Cloudy/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY HEALTH CENTER: KMUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
03.01.2020	04.01.2021	109	78	26	12	BDL	Cloudy/Clam
17.01.2021	18.01.2021	124	88	30	14	BDL	Cloudy/Clam
NAAQS, 2009		-	100	60	80	80	

AMBARA VILLAGE: KMUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
03.01.2021	04.01.2021	99	69	24	9	BDL	Cloudy/Clam
16.01.2021	17.01.2021	106	76	29	12	BDL	Cloudy/Clam
NAAQS, 2009		-	100	60	80	80	



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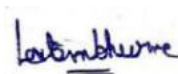


**FUGITIVE DUST MONITORING**

TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017) & PM2.5: USEPA Quality Assurance	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LPS 4		

CHP KAUF1					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )			ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	
FROM	TO	5	5	2	
03.01.21	04.01.21	314	201	85	Cloudy/Clam

PALACHURI SIDING KAUF2					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )			ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	
FROM	TO	5	5	2	
03.01.21	04.01.21	342	240	81	Cloudy/Clam



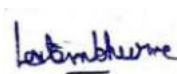
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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017), TSS: IS 3025-Part 17:1984(RA 2017), COD: APHA (23rd Edition) 5220 C :2017, O & G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: KNUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
04.01.2021	7.06	40	48	BDL
17.01.2021	6.88	42	44	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

MANAGER OFFICE: KAON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'21	08.01.2021	55.7	52.2
JAN'21	19.01.2021	51.6	49.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY(MOHAN/MAORI): KMUN2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'21	08.01.2021	45.4	42.7
JAN'21	19.01.2021	45.7	43.9
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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## ENVIRONMENTAL MONITORING REPORT

### AMBARA OC

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



FEBRUARY 2021

### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

### CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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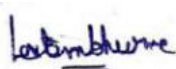
TEST REPORT NO.	RIN/TR/FEB-21/68	DATE OF ISSUE	31.03.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	AMBARA OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE: KAOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
01.02.2021	02.02.2021	347	203	36	17	14	Cloudy/Calm
16.02.2021	17.02.2021	335	215	41	16	11	Cloudy/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

PIT OFFICE-MOHAN: KAU2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
01.02.2021	02.02.2021	342	204	43	16	BDL	Cloudy/Calm
16.02.2021	17.02.2021	327	192	40	15	11	Cloudy/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY HEALTH CENTER: KMUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
02.02.2021	03.02.2021	127	88	29	9	BDL	Cloudy/Calm
17.02.2021	18.02.2021	136	94	36	12	BDL	Cloudy/Calm
NAAQS, 2009		-	100	60	80	80	

AMBARA VILLAGE: KMUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
01.02.2021	02.02.2021	135	94	24	9	BDL	Cloudy/Calm
16.02.2021	17.02.2021	121	83	29	10	BDL	Cloudy/Calm
NAAQS, 2009		-	100	60	80	80	



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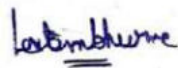


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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: KAOW				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
02.02.2021	7.11	42	48	BDL
17.02.2021	7.12	44	52	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

<b>MANAGER OFFICE: KAON1</b>			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
FEB'21	04.02.2021	49.7	47.4
FEB'21	19.02.2021	48.7	47.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY(MOHAN/MAORI): KMUN2</b>			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
FEB'21	04.02.2021	46.2	44.6
FEB'21	19.02.2021	45.9	44.1
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

### AMBARA OC

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MARCH 2021

#### Environment Laboratory


NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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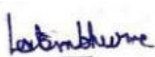
TEST REPORT NO.	RIN/TR/MAR-21/68	DATE OF ISSUE	27.04.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	AMBARA OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE: KAOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
02.03.2021	03.03.2021	255	172	39	13	BDL	Cloudy/Calm
18.03.2021	19.03.2021	273	183	43	11	BDL	Cloudy/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

PIT OFFICE-MOHAN: KAU2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
02.03.2021	03.03.2021	265	188	32	11	BDL	Cloudy/Calm
18.03.2021	19.03.2021	255	163	28	13	11	Cloudy/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY HEALTH CENTER: KMUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
03.03.2021	04.03.2021	134	92	27	10	BDL	Cloudy/Calm
19.03.2021	20.03.2021	142	86	35	9	BDL	Cloudy/Calm
NAAQS, 2009		-	100	60	80	80	

AMBARA VILLAGE: KMUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
02.03.2021	03.03.2021	132	88	28	10	BDL	Cloudy/Calm
18.03.2021	19.03.2021	142	79	32	9	BDL	Cloudy/Calm
NAAQS, 2009		-	100	60	80	80	



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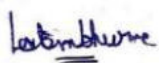


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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: KAOW				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
03.03.2021	3.82	56	36	BDL
16.03.2021	3.73	60	32	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

MANAGER OFFICE: KAON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
MAR'21	05.03.2021	50.7	47.6
MAR'21	22.03.2021	49.7	45.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY(MOHAN/MAORI): KMUN2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
MAR'21	05.03.2021	45.9	43.8
MAR'21	22.03.2021	45.9	44.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

**ENVIRONMENTAL AUDIT STATEMENT**  
**(FORM-V)**

**GHORAWARIOC PATCHES MINE**

**FY 2020-21**

**Prepared by-**



**WESTERN COALFIELDS LIMITED**  
**KANHAN AREA**  
**PO: DUNGARIA, CHHINDWARA (MP)-480553**

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## **EXECUTIVE SUMMARY**

E.1.0 This Environment Statement Report has been prepared as per gazette notification no. G.S.R. 329(E) dated 13<sup>th</sup> March, 1992 laid down by Ministry of Environment and Forest. The 'Environment Audit' has been subsequently renamed to '**Environment Statement**' vide MoEF gazette notification No. G.S.R. 386(E) dated 22nd April, 1993.

E.2.0 Ghorawari Open Cast Mine of Western Coalfields Ltd. is situated in Pench Kanhan Valley Coalfield, which lies in Chhindwara District of Madhya Pradesh State.

E.3.0 The planned production capacity of Ghorawari Open Cast Mine is 1.50 MTY. The Ministry of Environment & Forest, Govt. of India vide No. J-11015/367/2008/IA-II dt 26.12.2008 has granted Environmental Clearance to the Underground Mine. **The project produced 0.04 MT of coal during the year 2020-21. Mine currently not operational since May 2020.** Application for Forest Clearance of mine (Bharat OC Phase-III patch of Ghorawari OC patches) is under progress. Mine to continue after obtaining Stage-I & II Forest Clearance.

E.4.0 Quarterly environmental monitoring has been carried out by CMPDI for air, water and noise parameters. The results of the four quarters of 2020-21 are enclosed.

E.5.0 Environmental Statement report reveals the following facts regarding environmental aspect of this project:

E.5.1 The concentration of SO<sub>2</sub>, NO<sub>x</sub> in ambient air in core zone is well within the permissible limits.

E.5.2 No hazardous waste material is being produced either from any process or any pollution control facilities.

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## **FORM-V**

### **ENVIRONMENT STATEMENT FOR COAL MINING PROJECT FINANCIAL YEAR ENDING MARCH 2021.**

#### **PART-A**

- i. **Name and address of the Mine-** Ghorawari Opencast patches Mine,  
WCL Kanhan Area, PO- Ghorawari, District-Chhindwara, Pin-4804551.
- ii. **Industry Category-** Category A
- iii. **Production Capacity-** 1.50 MTY
- iv. **Date of last Environmental Statement submitted-** September 2020.

#### **PART - B**

### **WATER AND RAW MATERIAL CONSUMPTION**

**Table-A Water Consumption on Usage Pattern**

<b>Sno.</b>	<b>Water Consumption Category</b>	<b>Quantity/usage (in KL/day)</b>
<b>a)</b>	<b>Industrial</b>	
i.	Dust Suppression	Nil; Mine not in operation since May 2020.
ii.	Fir Fighting	Nil
iii.	Workshop and others	Nil
iv.	Green Belt/Plantation	Nil
v.	CHP Beneficiation	Nil
<b>b)</b>	<b>Domestic</b>	
i.	Domestic use	200 KL/day
ii.	Green Belt/Plantation	Nil
	<b>TOTAL</b>	<b>200 KL/day</b>

**Table-B Water Consumption against Production (including recycled)**

Name of Product	Water Consumption per unit of product (including recycled)	
	During the previous FY 2019-20	During the current FY 2020-21
COAL	1.45 KL/tonne of coal produced	Mine not operational since May 2020.

**Table-C Raw Material Consumption**

Name of raw material	Name of product	Consumption of raw material per unit of product	
		During the previous FY 2019-20	During the current FY 2020-21
Explosive (Kg/ton)	Coal	0.621	1.469 Mine not operational since May 2020.

**PART-C**

**Pollution discharged to Environment/unit of output (Parameters specified in the Consent issued)**

Sno.	Pollutants	Quantity of Pollution generated	Percentage variation from prescribed standards with reasons
a)	Water	Water Quality Monitoring reports attached for the year 2020-21	Values of parameters are well within the prescribed limits.
b)	Air	Air Quality Monitoring reports attached for the year 2020-21	Values of parameters are well within the prescribed limits.
c)	Noise	Noise Quality Monitoring reports attached for the year 2020-21	Values of parameters are well within the prescribed limits.



**PART-D**  
**HAZARDOUS WASTES**

Sno.	Hazardous Waste	Total Quantity	
		During the previous FY 2019-20	During the current FY 2020-21
a)	From Process	Nil	Nil
b)	From Pollution Control Facilities	Nil	Nil

**PART-E**  
**SOLID WASTES**

Sno.	Waste Generation	Total Quantity	
		During the previous FY 2019-20	During the current FY 2020-21
a)	From Process (Overburden)	0.290 Mm <sup>3</sup>	0.131 Mm <sup>3</sup>
b)	From Pollution Control Facilities	Nil	Nil
c)	Quantity recycled or dumped within quarry void	0.290 Mm <sup>3</sup>	0.131 Mm <sup>3</sup>
d)	Sold	Nil	Nil
e)	Disposed (as external dumps)	Nil	Nil

**PART-F**

**Please Specify the Characteristics (In Terms of Concern And Quantum) of Hazardous as well as Solid Wastes and indicate the Disposal Practice adopted for both these categories of wastes.**

Hazardous wastes is not being produced either from mining operation or from any pollution control facilities.

Solid Wastes generated from the mine are in form of Overburden comprising of sandstone, sandy and clayey shales which are either backfilled in quarry or deposited on OB dump.

## **PART-G**

### **Impact of Pollution Control Measures on Conservation of Natural Resources and subsequently on Cost of Production.**

In order to carry out mining in an eco-friendly manner, following pollution control measures have been implemented.

#### **1.0 AIR POLLUTION CONTROL MEASURES**

The following measures are being taken to control air pollution:

- (a) All the Coal transportation trucks are covered with tarpaulin & Trucks are loaded optimally at the weighbridge before dispatch.
- (b) Wind breaking wall (Height – 20 feet, Length 455m) provided at Hirdagarh Railway siding.

Plantation along the haul road and in other vacant space.

- (d) Mobile water tankers (Capacity – 4500 Litres) are used for dust suppression on coal transport roads. The mine has small open cast patches which operate for short periods only. Hence, fixed sprinklers are not required.
- (e) Road from Ghorawari village to Hirdagarh siding (Govt. Road) is already black topped Length – 15.00 km approx.
- (f) All necessary precautions are taken during drilling, blasting, loading and transporting operations.

#### **2.0 WATER POLLUTION CONTROL MEASURES**

The following measures have been taken to control water pollution from the mine :

- i) The Mine water is utilized to the maximum possible extent for dust suppression at coal face, haul roads and fire fighting etc. In case of rainy season, mine water is first allowed to settle in sump before discharging it to nearby natural drains.
- ii) Garland drains have been provided around the OB dumps. The drains are de-silted before the onset of monsoon.

iii) There is no departmental HEMM involved and there is no workshop for HEMM.

Hence, ETP is not required.

iv) Individual Septic Tank & Soak Pit provided at each quarter in colony. A STP (Capacity – 0.2 MLD) has been constructed and commissioned (Cost – Rs. 70.00 Lakhs)

(v) Quarterly Ground water levels and annually ground water quality in the month of May is monitored through network of existing wells through CMPDIL.

### 3.0. **NOISE POLLUTION CONTROL MEASURES**

Maintenance of transport vehicles, development of green belt in between industrial complex & residential area, ear plugs & helmets are issued to the workers.

## **PART-H**

### **Additional Investment Proposal for Environmental Protection including abatement of Pollution.**

The project has incurred an expenditure on environmental management, details of which are as under:

<b>Sno.</b>	<b>Particulars</b>	<b>Amount</b>
1.	Consent Fees	Nil already paid upto 31/01/22 in FY 2019-20
2.	Water Cess	Nil
3.	Environmental Monitoring Costs	Done by CMPDIL.
4.	Air Pollution Control Measures	6.94 lakhs

**Note: Air Pollution Control Measures**—(i) Cost of hiring of water tankers for dust suppression on coal transport road and hirdagarh siding.

### **Future Programme for Environmental management Measures:**

- a) Application for NOC from CGWA is in process.
- b) Installation of sprinklers at upcoming Bharat OC phase-3 patches of Ghorawari OC mine for which Forest Clearance is awaited.

- c) Application for CTO renewal for a period of two years.

### **PART-I**

#### **Any other Particulars in respect of Environmental Protection and abatement of Pollution**

The regular monitoring of the ambient air and water quality is being done in and around core zone and the quarterly monitoring report is submitted to the Madhya Pradesh State Pollution Control Board, Bhopal and the Ministry of Environment and Forest Regional Office, Bhopal.

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## ENVIRONMENTAL MONITORING REPORT

# GHORAWARI OC

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MAY-2020

Environment Laboratory

**CMPDI**

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY

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## **INTRODUCTION**

Ghorawadi OC Project is located in Chhindwara district of Madhya Pradesh state. The project is administered by Kanhan Area of Western Coalfields Limited. The climate of the area is tropical.

### **Sampling Location:**

#### **Ambient Air Quality Monitoring locations:**

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER OFFICE-OC :	KGOA1
2	SAM - OFFICE GHORAWARI :	KGOA2
3	COLONY- HEALTH CENTRE JHARNA:	KGOA3
4	PANARA VILLAGE:	KGOA4

#### **Fugitive Dust Monitoring locations:**

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	WEIGHT BRIDGE :	KGOF1

#### **Noise Level Monitoring location :**

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER OFFICE:	KGON1
2	COLONY (JHARNA UG)	KGON2

#### **Frequency of Monitoring:**

**AIR:** Frequency of monitoring is as per the Env. (Protection) Amendment Rules published vide Gazette dt. 25.9.2000.

**WATER:** Water quality is monitored on fortnightly basis

**NOISE:** Noise level is monitored on fortnightly basis.

## Test Report

### Air quality monitoring data

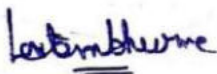
TSET REPORT NO.	RIN/TR/MAY-20/A76	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	GHORAWARI OC	SAMPLING PLAN : LQR 47	

MANAGER OFFICE-OC : KGOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
07.05.2020	65	39	17	10	<10
17.05.2020	84	54	24	12	<10
<b>TLV</b>	<b>600</b>	<b>300</b>	<b>60</b>	<b>120</b>	<b>120</b>

SAM - OFFICE GHORAWARI : KGOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
16.05.2020	91	49	17	7	<10
31.05.2020	110	79	22	8	<10
<b>TLV</b>	<b>600</b>	<b>300</b>	<b>60</b>	<b>120</b>	<b>120</b>

COLONY- HEALTH CENTRE JHARNA: KGOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
15.05.2020	70	39	20	9	<10
31.05.2020	78	42	25	10	<10
<b>TLV</b>	<b>200</b>	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>

PANARA VILLAGE: KGOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
16.05.2020	78	49	19	7	<10
17.05.2020	66	47	23	8	<10
<b>TLV</b>	<b>200</b>	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>



SCIENTIFIC ASSISTANT

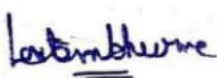

DEEPANSHU SAHU  
AUTHORIZED SIGNATORY

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**FUGITIVE DUST MONITORING DATA**

WEIGHT BRIDGE :KGOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )		
	SPM	PM10	PM <sub>2.5</sub>
DETECTION LIMIT	5	5	2
31.05.2020	103	80	22



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## NOISE LEVEL DATA

**NAME OF AREA: KANHAN AREA**                      **YEAR: 2020**  
**NAME OF PROJECT: GHORAWARI OC**              **MONTH: MAY**

MANAGER OFFICE: KGON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	13.05.2020	47.2	44.6
MAY-2020	28.05.2020	46.2	43.1
<b>TLV</b>		<b>75</b>	<b>70</b>

COLONY (JHARNA UG) KGON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	13.05.2020	44.6	42.9
MAY-2020	28.05.2020	45.6	44.4
<b>TLV</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

# GHORAWARI OC

KANHAN AREA

**WESTERN COALFIELDS LTD.**

JOB NO. 4634420035



**JUNE 2020**

**Environment Laboratory**

**CMPDI**

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY

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## **INTRODUCTION**

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### **Sampling Location:**

#### **Ambient Air Quality Monitoring locations:**

SL. NO.	LOCATION DETAIL	LOCATION CODE
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2	SAM - OFFICE GHORAWARI :	KGOA2
3	COLONY- HEALTH CENTRE JHARNA:	KGOA3
4	PANARA VILLAGE:	KGOA4

#### **Fugitive Dust Monitoring locations:**

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	WEIGHT BRIDGE :	KGOF1

#### **Noise Level Monitoring location :**

SL. NO.	LOCATION DETAIL	LOCATION CODE
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2	COLONY (JHARNA UG)	KGON2

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**AIR:** Frequency of monitoring is as per the Env. (Protection) Amendment Rules published vide Gazette dt. 25.9.2000.

**WATER:** Water quality is monitored on fortnightly basis

**NOISE:** Noise level is monitored on fortnightly basis.

## Test Report

### Air quality monitoring data

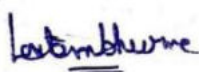
TEST REPORT NO.	RIN/TR/JUNE-20/A76	DATE OF ISSUE	31-07-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	GHORAWARI OC	SAMPLING PLAN	LQR 47

MANAGER OFFICE-OC : KGOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
13-06-20	82	62	27	11	<10
27-06-20	76	59	21	13	10
TLV	600	300	60	120	120

SAM - OFFICE GHORAWARI : KGOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
13-06-20	82	55	26	13	<10
17-06-20	87	61	20	14	<10
TLV	600	300	60	120	120

COLONY- HEALTH CENTRE JHARNA: KGOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
13-06-20	70	42	19	8	<10
27-06-20	61	49	17	11	10
TLV	200	100	60	80	80

PANARA VILLAGE: KGOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
13-06-20	73	47	21	10	<10
27-06-20	67	53	23	10	<10
TLV	200	100	60	80	80



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## NOISE LEVEL DATA

**NAME OF AREA: KANHAN AREA**  
**NAME OF PROJECT: GHORAWARI OC**

**YEAR: 2020**  
**MONTH: JUNE**

MANAGER OFFICE: KGON1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	15-06-20	52.2
JUNE 2020	26-06-20	52.8
<b>TLV</b>		<b>75</b>

COLONY (JHARNA UG) KGON2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	12-06-20	46.8
JUNE 2020	17-06-20	42.2
<b>TLV</b>		<b>55</b>

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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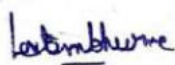
TEST REPORT NO.	RIN/TR/JULY-20/73	DATE OF ISSUE	31.08.2020
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	GHORAWARI OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE-OC: KGOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
29-Jul-20	30-Jul-20	84	52	28	12	<10	CLOUDY SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SAM-OFFICE GHORAWARI: KJUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
15-Jul-20	16-Jul-20	94	53	22	16	11	RAINY, CALM
28-Jul-20	29-Jul-20	70	43	27	15	<10	CLOUDY SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY-HEALTH CENTER JHARNA: KJUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
29-Jul-20	30-Jul-20	85	59	30	14	<10	CLOUDY SKY, CALM
NAAQS, 2009		-	100	60	80	80	

PANARA VILLAGE: KJUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
29-Jul-20	30-Jul-20	71	47	29	11	<10	CLOUDY SKY, CALM
NAAQS, 2009		-	100	60	80	80	



Analysed by



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**FUGITIVE DUST MONITORING**

TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017) & PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LSOP 4		

WEIGHING BRIDG KGOF1					
DATE(dd:mm:yy) ) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )			ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	
FROM	TO	5	5	2	
29-Jul-20	30-Jul-20	125	83	53	CLOUDY SKY, CALM

**NOISE LEVEL MONITORING DATA**

MANAGER OFFICE: KGON1		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
	DETECTION LIMIT	20
JULY.2020	15-Jul-20	48.9
JULY.2020	29-Jul-20	46.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>

COLONY(JHARNA): KJUN2		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
	DETECTION LIMIT	20
JULY.2020	15-Jul-20	44.2
JULY.2020	28-Jul-20	44.7
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>

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## **ENVIRONMENTAL MONITORING REPORT**

### **KANHAN AREA**

**GHORAWARI OC**

**WESTERN COALFIELDS LTD.**

JOB NO. 4634420035



**AUGUST 2020**

**Environment Laboratory**

**CMPDI**

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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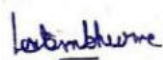
TEST REPORT NO.	RIN/TR/AUGUST-20/73	DATE OF ISSUE	30.09.2020
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	GHORAWARI OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE-OC: KGOA1							
DATE(dd:mm:yy) ) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
12.08.2020	13.08.2020	5	5	2	6	10	RAINY, CALM
27.08.2020	28.08.2020	75	62	34	14	BDL	RAINY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SAM-OFFICE GHORAWARI: KJUA2							
DATE(dd:mm:yy) ) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
11.08.2020	12.08.2020	88	50	34	15	BDL	RAINY, CALM
26.08.2020	27.08.2020	96	62	31	16	13	Cloudy, Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY-HEALTH CENTER JHARNA: KJUA3							
DATE(dd:mm:yy) ) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
12.08.2020	13.08.2020	79	49	27	12	BDL	RAINY, CALM
26.08.2020	27.08.2020	92	55	25	11	BDL	Cloudy, Calm
NAAQS, 2009		-	100	60	80	80	

PANARA VILLAGE: KJUA4							
DATE(dd:mm:yy) ) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
12.08.2020	13.08.2020	80	57	25	11	BDL	RAINY, CALM
27.08.2020	28.08.2020	97	69	28	10	BDL	Cloudy, Calm
NAAQS, 2009		-	100	60	80	80	



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**NOISE LEVEL MONITORING DATA**

MANAGER OFFICE: KGON1		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
	DETECTION LIMIT	DAY TIME
		20
Aug-20	11.08.2020	44.2
Aug-20	26.8.2020	49.7
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>

COLONY(JHARNA): KJUN2		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
	DETECTION LIMIT	DAY TIME
		20
Aug-20	11.8.2020	44.7
Aug-20	25.8.2020	43.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>

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## ENVIRONMENTAL MONITORING REPORT

### GHORAWARI OC

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



SEPTEMBER 2020

**Environment Laboratory**

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

**CMPDI**

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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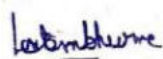
TEST REPORT NO.		RIN/TR/SEPTEMBER-20/73		DATE OF ISSUE		30.10.2020	
NAME OF CUSTOMER		GM(ENV.), WCL(HQ), NAGPUR					
CUSTOMER LETTER REFERENCE NO.		WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20					
TEST REQUIRED		SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance					
NAME OF AREA		KANHAN			SAMPLING PLAN : LQR 47		
NAME OF PROJECT		GHORAWARI OC					
SAMPLE DESCRIPTION		Air sample					
SAMPLING METHOD : LSOP 4							

MANAGER OFFICE-OC: KGOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09.09.20	10.09.20	89	63	33	13	BDL	CLEAR LIGHT BREEZE
20.09.20	21.09.20	80	58	28	11	BDL	CLOUDY CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SAM-OFFICE GHORAWARI: KJUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08.09.20	09.09.20	105	58	28	14	BDL	CLEAR LIGHT BREEZE
21.09.20	22.09.20	95	67	34	10	BDL	CLEAR CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY-HEALTH CENTER JHARNA: KJUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09.09.20	10.09.20	107	66	30	13	BDL	CLEAR LIGHT BREEZE
20.09.20	21.09.20	91	58	26	11	BDL	CLOUDY CALM
NAAQS, 2009		-	100	60	80	80	

PANARA VILLAGE: KJUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09.09.20	10.09.20	112	75	24	12	BDL	CLEAR LIGHT BREEZE
20.09.20	21.09.20	101	66	21	10	BDL	CLOUDY CALM
NAAQS, 2009		-	100	60	80	80	



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**NOISE LEVEL MONITORING DATA**

MANAGER OFFICE:		KGON1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
SEPT'2020	07.09.2020	52.6	50.2
SEPT'2020	22.09.2020	53.7	52.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY(JHARNA):		KGON2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
SEPT'2020	07.09.2020	50.6	43.2
SEPT'2020	22.09.2020	51.6	44.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

# GHORAWARI OC

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



OCTOBER 2020

### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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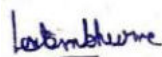
TEST REPORT NO.	RIN/TR/OCTOBER-20/73	DATE OF ISSUE	30.11.2020
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	GHORAWARI OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE-OC: KGOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
04.10.20	05.10.20	84	49	27	14	BDL	CLEAR SKY, LIGHT BREEZE
18.10.20	19.10.20	168	130	45	11	BDL	CALM/CLEAR SKY
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SAM-OFFICE GHORAWARI: KJUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
05.10.20	06.10.20	89	56	30	12	BDL	CLEAR SKY, LIGHT BREEZE
19.10.20	20.10.20	188	140	55	13	10	CALM/CLEAR SKY
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY-HEALTH CENTER JHARNA: KJUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
05.10.20	06.10.20	70	36	22	10	BDL	CLEAR SKY, LIGHT BREEZE
19.10.20	20.10.20	92	62	32	10	BDL	CALM/CLEAR SKY
NAAQS, 2009		-	100	60	80	80	

PANARA VILLAGE: KJUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
04.10.20	05.10.20	62	40	20	10	BDL	CLEAR SKY, LIGHT BREEZE
18.10.20	19.10.20	99	55	32	10	BDL	CALM/CLEAR SKY
NAAQS, 2009		-	100	60	80	80	



Analysed by



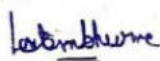
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**FUGITIVE DUST MONITORING**

TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017) & PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LSOP 4		

WEIGHING BRIDGE: KGOF1					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )			ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	
FROM	TO	S	S	2	
03.10.20	04.10.20	130	88	53	LIGHT BREEZE/CLEAR SKY



Analysed by


Deepanshu sahu  
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**NOISE LEVEL MONITORING DATA**

MANAGER OFFICE:		KGON1	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
Oct-20	09.10.20	52.6	50.2
Oct-20	21.10.20	51.5	49.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY(JHARNA):		KGON2	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
Oct-20	09.10.20	50.6	43.2
Oct-20	21.10.20	51.4	44.5
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

### GHORAWARI OC

KANHAN AREA 

**WESTERN COALFIELDS LTD.**

JOB NO. 4634420035



NOVEMBER 2020


**Environment Laboratory**

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

**CMPDI**

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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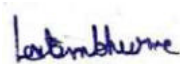
TEST REPORT NO.	RIN/TR/NOV-20/73	DATE OF ISSUE	31.12.2020
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	GHORAWARI OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE-OC: KGOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
04.11.20	05.11.20	189	149	64	14	BDL	Cloudy/Calm
19.11.20	20.11.20	199	156	51	15	12	Cloudy/Windy
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SAM-OFFICE GHORAWARI: KJUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
05.11.20	06.11.20	196	148	59	13	BDL	Cloudy/Calm
20.11.20	21.11.20	171	132	43	10	BDL	Rainy/Windy
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY-HEALTH CENTER JHARNA: KJUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
05.11.20	06.11.20	101	67	32	10	BDL	Cloudy/Calm
20.11.20	21.11.20	93	47	24	9	BDL	Rainy/Windy
NAAQS, 2009		-	100	60	80	80	

PANARA VILLAGE: KJUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
04.11.20	05.11.20	110	66	36	9	BDL	Cloudy/Calm
19.11.20	20.11.20	122	76	43	10	BDL	Cloudy/Windy
NAAQS, 2009		-	100	60	80	80	



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**NOISE LEVEL MONITORING DATA**

MANAGER OFFICE:		KGON1	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
NOV'20	06.11.20	48.2	46.9
NOV'20	18.11.20	51.6	42.8
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY(JHARNA):		KGON2	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
NOV'20	06.11.20	41.9	40.2
NOV'20	18.11.20	45.1	41.1
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

### GHORAWARI OC

KANHAN AREA



### WESTERN COALFIELDS LTD.

JOB NO. 4634420035



DECEMBER 2020

### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

### CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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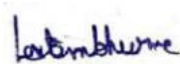
TEST REPORT NO.	RIN/TR/DEC-20/73	DATE OF ISSUE	31.01.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	GHORAWARI OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE-OC: KGOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
5.12.20	6.12.20	201	159	39	15	12	Clear Sky / Clam
19.12.20	20.12.20	227	147	33	14	11	Clear Sky / Clam
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SAM-OFFICE GHORAWARI: KJUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
6.12.20	7.12.20	199	127	32	13	BDL	Clear Sky / Clam
20.12.20	21.12.20	183	141	25	12	BDL	Clear Sky / Clam
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY-HEALTH CENTER JHARNA: KJUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
6.12.20	7.12.20	104	75	22	9	BDL	Clear Sky / Clam
20.12.20	21.12.20	117	89	28	10	BDL	Clear Sky / Clam
NAAQS, 2009		-	100	60	80	80	

PANARA VILLAGE: KJUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
5.12.20	6.12.20	99	65	22	11	BDL	Clear Sky / Clam
19.12.20	20.12.20	111	88	26	12	BDL	Clear Sky / Clam
NAAQS, 2009		-	100	60	80	80	



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**NOISE LEVEL MONITORING DATA**

MANAGER OFFICE:		KGON1	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'20	4.12.20	52.3	48.6
DEC'20	18.12.20	45.2	40.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY(JHARNA):		KGON2	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'20	4.12.2020	47.6	40.6
DEC'20	18.12.2020	45.2	40.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

### GHORAWARI OC

KANHAN AREA

**WESTERN COALFIELDS LTD.**

JOB NO. 4634420035



JANUARY 2021


**Environment Laboratory**

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

**CMPDI**

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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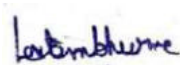
TEST REPORT NO.	RIN/TR/JAN-21/73	DATE OF ISSUE	28.02.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> : IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	GHORAWARI OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE-OC: KGOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
05.01.21	06.01.21	236	178	35	14	BDL	CLOUDY/CALM
17.01.21	18.01.21	221	155	42	16	BDL	CLOUDY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SAM-OFFICE GHORAWARI: KJUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
05.01.21	06.01.21	256	177	39	15	11	CLOUDY/CALM
19.01.21	20.01.21	271	163	45	17	14	CLOUDY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY-HEALTH CENTER JHARNA: KJUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
05.01.21	06.01.21	117	88	24	11	BDL	CLOUDY/CALM
18.01.21	19.01.21	100	78	34	13	BDL	CLOUDY/CALM
NAAQS, 2009		-	100	60	80	80	

PANARA VILLAGE: KJUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
04.01.21	05.01.21	112	78	29	12	BDL	Clear Sky / Clam
17.01.21	18.01.21	121	82	32	14	BDL	Clear Sky / Clam
NAAQS, 2009		-	100	60	80	80	



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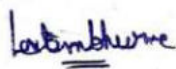
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**FUGITIVE DUST MONITORING**

TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017) & PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LPS 4		

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )			ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	
		5	5	2	
FROM	TO				
04.01.2021	05.01.2021	334	222	88	Clear Sky / Clam



Analysed by

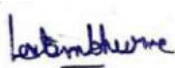


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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE:		KNUW1		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
05.01.2021	7.93	26	32	BDL
17.01.2021	7.66	24	36	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

<b>MANAGER OFFICE: KGON1</b>			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'21	08.01.2021	49.6	44.4
JAN'21	19.01.2021	55.7	48.7
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY(JHARNA): KGON2</b>			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'21	08.01.2021	45.7	43.5
JAN'21	19.01.2021	44.7	41.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

# GHORAWARI OC

KANHAN AREA 

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



FEBRUARY 2021

### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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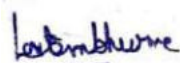
TEST REPORT NO.		RIN/TR/FEB-21/73		DATE OF ISSUE		31.03.2021	
NAME OF CUSTOMER		GM(ENV.), WCL(HQ), NAGPUR					
CUSTOMER LETTER REFERENCE NO.		WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20					
TEST REQUIRED		SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)					
NAME OF AREA		KANHAN		SAMPLING PLAN : LQR 47			
NAME OF PROJECT		GHORAWARI OC					
SAMPLE DESCRIPTION		Air sample					
SAMPLING METHOD : LSOP 4							

MANAGER OFFICE-OC: KGOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
02.02.2021	03.02.2021	254	173	39	15	BDL	Cloudy/Calm
17.02.2021	18.02.2021	267	161	33	16	11	Cloudy/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SAM-OFFICE GHORAWARI: KJUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
04.02.2021	05.02.2021	244	166	33	14	BDL	Cloudy/Calm
19.02.2021	20.02.2021	233	178	28	16	11	Cloudy/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY-HEALTH CENTER JHARNA: KJUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
03.02.2021	04.02.2021	128	86	26	10	BDL	Cloudy/Calm
18.02.2021	19.02.2021	137	95	30	9	BDL	Cloudy/Calm
NAAQS, 2009		-	100	60	80	80	

PANARA VILLAGE: KJUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
02.02.2021	03.02.2021	127	86	30	11	BDL	Cloudy/Calm
17.02.2021	18.02.2021	131	92	27	10	BDL	Cloudy/Calm
NAAQS, 2009		-	100	60	80	80	



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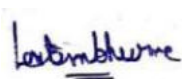
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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: KGOW				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
02.02.2021	8.04	22	32	BDL
17.02.2021	8.01	26	36	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

MANAGER OFFICE:		KGON1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
FEB'21	04.02.2021	47.4	44.8
FEB'21	19.02.2021	46.9	44.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY(JHARNA):		KGON2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
FEB'21	04.02.2021	44.9	42.7
FEB'21	19.02.2021	45.4	43.5
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

### GHORAWARI OC

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MARCH 2021


#### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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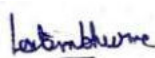
TEST REPORT NO.	RIN/TR/MAR-21/73	DATE OF ISSUE	28.04.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	GHORAWARI OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE-OC: KGOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
03.03.2021	04.03.2021	255	170	36	14	BDL	Cloudy/Calm
19.03.2021	20.03.2021	272	188	31	16	11	Cloudy/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SAM-OFFICE GHORAWARI: KJUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
05.03.2021	06.03.2021	293	181	45	15	11	Cloudy/Calm
21.03.2021	22.03.2021	281	189	40	13	BDL	Cloudy/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY-HEALTH CENTER JHARNA: KJUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
04.03.2021	05.03.2021	135	90	28	10	BDL	Cloudy/Calm
20.03.2021	21.03.2021	127	74	32	9	BDL	Cloudy/Calm
NAAQS, 2009		-	100	60	80	80	

PANARA VILLAGE: KJUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
03.03.2021	04.03.2021	124	79	28	11	BDL	Cloudy/Calm
19.03.2021	20.03.2021	139	84	33	12	BDL	Cloudy/Calm
NAAQS, 2009		-	100	60	80	80	



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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O & G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: KGOW				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
03.03.2021	7.71	24	36	BDL
17.03.2021	7.83	28	32	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

MANAGER OFFICE:		KGON1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
MAR'21	05.03.2021	47.2	44.4
MAR'21	22.03.2021	49.7	45.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY(JHARNA):		KGON2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
MAR'21	05.03.2021	45.2	42.1
MAR'21	22.03.2021	45.4	43.7
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

**ENVIRONMENTAL AUDIT STATEMENT**  
**(FORM-V)**

**MOHAN (MAORI) UG MINE**

**FY 2020-21**

**Prepared by-**



**WESTERN COALFIELDS LIMITED**  
**KANHAN AREA**  
**PO: DUNGARIA, CHHINDWARA (MP)-480553**

# INDEX

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<b>1.</b>	<b>Executive Summary</b>	<b>01</b>
<b>2.</b>	<b>FORM-V</b>	<b>02</b>
	<b>PART-A</b>	<b>02</b>
	<b>PART-B</b>	<b>02</b>
	<b>PART-C</b>	<b>03</b>
	<b>PART-D</b>	<b>04</b>
	<b>PART-E</b>	<b>04</b>
	<b>PART-F</b>	<b>04</b>
	<b>PART-G</b>	<b>05</b>
	<b>PART-H</b>	<b>06</b>
	<b>PART-I</b>	<b>07</b>
<b>3.</b>	<b>Quarterly Monitoring Reports</b>	<b>08</b>



## **EXECUTIVE SUMMARY**

E.1.0 This Environment Statement Report has been prepared as per gazette notification no. G.S.R. 329(E) dated 13<sup>th</sup> March, 1992 laid down by Ministry of Environment and Forest. The 'Environment Audit' has been subsequently renamed to '**Environment Statement**' vide MoEF gazette notification No. G.S.R. 386(E) dated 22nd April, 1993.

E.2.0 Mohan (Maori) Underground Mine of Western Coalfields Ltd. is situated in Pench Kanhan Valley Coalfield, which lies in Chhindwara District of Madhya Pradesh State.

E.3.0 The planned production capacity of Mohan Underground Mine is 1.00 MTY. The Ministry of Environment & Forest, Govt. of India vide No. J-11015/123/2008-IA-II(M) Dated 02.02.2009 has granted Environmental Clearance to the Underground Mine. **The project produced 189000 Tonnes of coal during the year 2020-21.**

E.4.0 Quarterly environmental monitoring has been carried out by CMPDI for air, water and noise parameters. The monitoring reports for the FY 2020-21 are enclosed..

E.5.0 Environmental Statement report reveals the following facts regarding environmental aspect of this project:

E.5.1 The concentration of SO<sub>2</sub>, NO<sub>x</sub> in ambient air in core zone is well within the permissible limits.

E.5.2 No hazardous waste material is being produced either from any process or any pollution control facilities.

## **FORM-V**

### **ENVIRONMENT STATEMENT FOR COAL MINING PROJECT FINANCIAL YEAR ENDING MARCH 2021.**

#### **PART-A**

- i. **Name and address of the Mine-** Mohan (Maori) Underground Mine, WCL Kanhan Area, PO- Ambara, District-Chhindwara, Pin-480449.
- ii. **Industry Category-** Category A
- iii. **Production Capacity-** 1.00 MTY
- iv. **Date of last Environmental Statement submitted-** September 2020.

#### **PART - B**

### **WATER AND RAW MATERIAL CONSUMPTION**

**Table-A Water Consumption on Usage Pattern**

<b>Sno.</b>	<b>Particulars</b>	<b>Water Consumption Average (kL/Day)</b>
a)	Industrial	
i.	Dust Suppression/Recycling for roof support	800 KL/Day
ii.	Fire Fighting	Nil
iii.	Workshop and Others	10 KL/day
iv.	Green Belt /Plantation	Nil
v .	CHP/Beneficiation	Nil
b)	Domestic	
i.	Domestic Use	Nil
ii.	Green belt/Plantation	Nil
c)	Discharge into adjacent nallah after treatment	80 KL/day
	<b>Total</b>	890 KL/Day

**Table-B Water Consumption against Production (including recycled)**

Name of Product	Water Consumption per unit of product (including recycled)	
	During the previous FY 2019-20	During the current FY 2020-21
COAL	2.37 KL/tonne of Coal produced.	1.718 KL/tonne of Coal produced.

**Table-C Raw Material Consumption**

Name of raw material	Name of product	Consumption of raw material per unit of product	
		During the previous FY 2019-20	During the current FY 2020-21
Explosive (Kg/ton)	Coal	0.235	0.245

**PART-C**

**Pollution discharged to Environment/unit of output (Parameters specified in the Consent issued)**

Sno.	Pollutants	Quantity of Pollution generated	Percentage variation from prescribed standards with reasons
a)	Water	Water Quality Monitoring reports attached for FY 2020-21	Values of parameters are well within the prescribed limits.
b)	Air	Air Quality Monitoring reports attached for FY 2020-21	Values of parameters are well within the prescribed limits.
c)	Noise	Noise Quality Monitoring reports attached for FY 2020-21	Values of parameters are well within the prescribed limits.

**PART-D**  
**HAZARDOUS WASTES**

Sno.	Hazardous Waste	Total Quantity	
		During the previous FY 2019-20	During the current FY 2020-21
a)	From Process	Nil	Nil
b)	From Pollution Control Facilities	Nil	Nil

**PART-E**  
**SOLID WASTES**

Sno.	Waste Generation	Total Quantity	
		During the previous FY 2019-20	During the current FY 2020-21
a)	From Process	Nil	Nil
b)	From Pollution Control Facilities	Nil	Nil
c)	Quantity recycled or dumped within quarry void	Nil	Nil
d)	Sold	Nil	Nil
e)	Disposed (as external dumps)	Nil	Nil

**Note- It is an underground mine.**

**PART-F**

**Please Specify the Characteristics (In Terms of Concern And Quantum) of Hazardous as well as Solid Wastes and indicate the Disposal Practice adopted for both these categories of wastes.**

Hazardous wastes is not being produced either from mining operation or from any pollution control facilities.

It is an Underground mine, only coal is extracted by Board and Pillar Continuous method and no solid waste material is generated during mining operation.

## **PART-G**

### **Impact of Pollution Control Measures on Conservation of Natural Resources and subsequently on Cost of Production.**

In order to carry out mining in an eco-friendly manner, following pollution control measures have been implemented.

#### **1. Air Pollution Control Measures-**

The following measures are being taken to control air pollution:

(a) All the Coal transportation trucks are covered with tarpaulin. Coal transport trucks are loaded optimally at weighbridge before dispatch.

(b) 03 nos. of fixed sprinklers installed at conveyor belt.

1 nos. of mobile water tanker (Capacity 4.5kL) is also used for dust suppression.

(d) Metal-topped internal road has already been provided from pit-office to check-post.  
Length -100 m.

Main PWD Road from check-post to siding already black-topped, Length – 3.90 km

(e) Till date 81500 no. of Plants have been planted over an area of 32.6 Ha within the mine lease hold area.

#### **2. Water Pollution Control Measures-**

The following measures are taken to control water pollution from the mine:

Presently there is no mine water discharge from the mine since January 2021, However arrangements are in place for treatment of mine water.

i) Three nos. of sedimentation tanks already constructed for treatment of mine water Discharge.

Brick work tank (Capacity 30.69 KL): Dimensions -4.65m x 2.75m x 2.40m

Circular RCC tank (Capacity 100 KL): Diameter – 6.94 m, Height – 2.9 m

RCC Sedimentation Tank (Capacity 300 m<sup>3</sup>)

- Part of the mine water is recycled from UG sump for Hydraulic roof bolting and dust suppression at mine working face.
- Mine water also utilized for spraying on belts and for mobile water tankers.
- Arrangement made for lime dosing of mine water for maintaining the pH.

ii) Individual Septic Tank & Soak Pit provided at each quarter of combined township of Ambara UG, Ambara OC and Mohan UG mines.

- iii) Quarterly Ground water levels and Annually ground water quality in the month of May is monitored through network of existing wells through CMPDIL. The monitoring reports are communicated to MOEF and CGWB.
- iv) Installation of 2 nos. of water meter.

### 3. Noise Pollution Control Measures-

Maintenance of transport vehicles, development of green belt in between industrial complex & residential area, ear plugs & helmets are issued to the workers.

## **PART-H**

### **Additional Investment Proposal for Environmental Protection including abatement of Pollution.**

The project has incurred an expenditure on environmental management, details of which are as under:

<b>Sno.</b>	<b>Particulars</b>	<b>Amount</b>
1.	Consent Fees	Rs 16.00lakhs
2.	Water Cess	Nil
3.	Environmental Monitoring Costs	Rs 19.44 lakhs*
4.	Air Pollution Control Measures	Rs 2.00 lakhs*
5.	Water Pollution Control Measures	Rs. 3.51 lakhs

**Note- Figures are tentative, final audited figures to be furnished.**

### **Future Program for Environmental Management Measures-**

- a. Renewal of CTO of MohanUG for two years-32.0 lakhs.
- b. Application for issuance of NOC from CGWA is in progress.
- c. Installation of CAAQMS at Sub-Area Office, Ambara Sub-Area which is in the buffer zone of the Ambara OC mine for continuous monitoring of air quality and take necessary corrective measures if required.

## **PART-I**

### **Any other Particulars in respect of Environmental Protection and abatement of Pollution**

The regular monitoring of the ambient air and water quality is being done in and around core zone and the quarterly monitoring report is submitted to the Madhya Pradesh State Pollution Control Board, Bhopal and the Ministry of Environment and Forest Regional Office, Bhopal.

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## ENVIRONMENTAL MONITORING REPORT

# MOHAN/ MAORI UG

KANHAN AREA

### WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MAY-2020

Environment Laboratory

## CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY



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2	AIR QUALITY MONITORING DATA	4
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

## **INTRODUCTION**

Mohan / Maori UG is located in Chhindwara district of Madhya Pradesh. The project is administered by Kanhan Area of Western Coalfields Limited. The climate of the area is tropical. Transportation roads, agricultural and local activities, vehicular traffic etc also contributes to the pollution.

### **Sampling Location:**

#### **Ambient Air Quality Monitoring locations:**

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	SAM OFFICE- AMBARA :	KMUA1
2	PIT OFFICE- MOHAN:	KMUA2
3	COLONY- HEALTH CENTRE:	KMUA3
4	AMBARA VILLAGE:	KMUA4

#### **Water Quality Monitoring location:**

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE DISCHARGE:	KMUW1

#### **Noise Level Monitoring location :**

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE:	KMUN1
2	COLONY:	KMUN2

### **Frequency of Monitoring:**

**AIR:** Frequency of monitoring is as per the Env. (Protection) Amendment Rules published vide Gazette dt. 25.9.2000.

**WATER:** Water quality is monitored on fortnightly basis

**NOISE:** Noise level is monitored on fortnightly basis.

## Test Report

### Air quality monitoring data

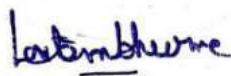
TSET REPORT NO.	RIN/TR/MAY-20/A73	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/Env/14-I/588-615 dated 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD : LSOP 4	SAMPLING PLAN : LQR 47
NAME OF PROJECT	MOHAN/ MAORI UG		

SAM OFFICE- AMBARA : KMUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
15.05.2020	128	100	24	16	<10
18.05.2020	106	81	23	18	13
TLV	600	300	60	120	120

PIT OFFICE- MOHAN: KMUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
15.05.2020	110	88	21	13	<10
18.05.2020	107	85	25	15	<10
TLV	600	300	60	120	120

COLONY- HEALTH CENTRE: KMUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
15.05.2020	100	69	22	15	10
22.05.2020	69	44	25	14	<10
TLV	200	100	60	80	80

AMBARA VILLAGE: KMUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
12.05.2020	127	97	20	13	<10
17.05.2020	104	75	19	10	<10
TLV	200	100	60	80	80



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU  
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## Test Report

### Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W73	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/Env/14-I/588-615 dated 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	MOHAN/ MAORI UG	SAMPLING PLAN : LQR 47	

MINE DISCHARGE: KMWU1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
15.05.2020	5.9	40	32	<2
21.05.2020	6.0	44	28	<2
TLV	5.5 - 9.0	100	250	10



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## NOISE LEVEL DATA

NAME OF AREA: KANHAN AREA      YEAR: 2020  
 NAME OF PROJECT: MOHAN/ MAORI UG      MONTH: MAY

FAN HOUSE: KMUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	13.05.2020	69.4	67.5
MAY-2020	28.05.2020	65.7	67.2
TLV		75	70

COLONY: KMUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	13.05.2020	44.6	43.4
MAY-2020	28.05.2020	46.4	43.8
TLV		55	45

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## ENVIRONMENTAL MONITORING REPORT

# MOHAN/ MAORI UG

KANHAN AREA

**WESTERN COALFIELDS LTD.**

JOB NO. 4634420035



**JUNE - 2020**

**Environment Laboratory**

**CMPDI**

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY

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### **INTRODUCTION**

Mohan / Maori UG is located in Chhindwara district of Madhya Pradesh. The project is administered by Kanhan Area of Western Coalfields Limited. The climate of the area is tropical. Transportation roads, agricultural and local activities, vehicular traffic etc also contributes to the pollution.

#### **Sampling Location:**

##### **Ambient Air Quality Monitoring locations:**

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	SAM OFFICE- AMBARA :	KMUA1
2	PIT OFFICE- MOHAN:	KMUA2
3	COLONY- HEALTH CENTRE:	KMUA3
4	AMBARA VILLAGE:	KMUA4

##### **Water Quality Monitoring location:**

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE DISCHARGE:	KMUW1

##### **Noise Level Monitoring location :**

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE:	KMUN1
2	COLONY:	KMUN2

#### **Frequency of Monitoring:**

**AIR:** Frequency of monitoring is as per the Env. (Protection) Amendment Rules published vide Gazette dt. 25.9.2000.

**WATER:** Water quality is monitored on fortnightly basis

**NOISE:** Noise level is monitored on fortnightly basis.



## Test Report

### Air quality monitoring data

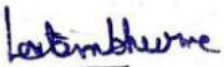
TSET REPORT NO.	RIN/TR/JUNE-20/A73	DATE OF ISSUE	31-07-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/Env/14-I/588-615 dated 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	MOHAN/ MAORI UG	SAMPLING PLAN : LQR 47	


SAM OFFICE- AMBARA : KMUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
11-06-20	99	74	35	13	<10
26-06-20	81	66	27	12	<10
<b>TLV</b>	<b>600</b>	<b>300</b>	<b>60</b>	<b>120</b>	<b>120</b>

PIT OFFICE- MOHAN: KMUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
12-06-20	96	70	30	15	11
26-06-20	74	56	23	11	<10
<b>TLV</b>	<b>600</b>	<b>300</b>	<b>60</b>	<b>120</b>	<b>120</b>

COLONY- HEALTH CENTRE: KMUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
11-06-20	99	63	29	13	<10
26-06-20	83	69	22	11	<10
<b>TLV</b>	<b>200</b>	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>

AMBARA VILLAGE: KMUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
12-06-20	102	72	32	14	<10
27-06-20	85	60	22	9	<10
<b>TLV</b>	<b>200</b>	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>

  
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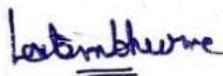
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## Test Report

### Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/W73	DATE OF ISSUE	31-07-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/Env/14-I/588-615 dated 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	MOHAN/ MAORI UG	SAMPLING PLAN : LQR 47	

MINE DISCHARGE: KMWU1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
10-06-20	6.30	54	32	<2
26-06-20	6.11	32	28	<2
TLV	5.5 - 9.0	100	250	10



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## NOISE LEVEL DATA

**NAME OF AREA: KANHAN AREA**                      **YEAR: 2020**  
**NAME OF PROJECT: MOHAN/ MAORI UG**                      **MONTH: JUNE**

FAN HOUSE: KMUN1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	10.06.20	70.3
JUNE 2020	26.06.20	70.4
<b>TLV</b>		<b>75</b>

COLONY: KMUN2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	10.06.20	46.2
JUNE 2020	26.06.20	46.5
<b>TLV</b>		<b>55</b>

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-20/75	DATE OF ISSUE	31.08.2020
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	MOHAN/MAORI UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SAM OFFICE: KAUA1						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>
16-Jul-20	17-Jul-20	77	56	30	15	11
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120
		ENVIRONMENT CONDITIONS (Sky/Wind)				
		CLOUDY SKY, CALM				

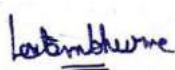
PIT-OFFICE-MOHAN: KAUA2						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>
17-Jul-20	18-Jul-20	80	58	27	12	<10
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120
		ENVIRONMENT CONDITIONS (Sky/Wind)				
		CLOUDY SKY, CALM				

COLONY HEALTH CENTER: KMUA3						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>
16-Jul-20	17-Jul-20	83	60	33	15	<10
NAAQS, 2009		-	100	60	80	80
		ENVIRONMENT CONDITIONS (Sky/Wind)				
		CLOUDY SKY, CALM				

AMBARA VILLAGE: KMUA4						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>
11-Jul-20	12-Jul-20	70	52	25	11	<10
17-Jul-20	18-Jul-20	92	61	28	16	11
NAAQS, 2009		-	100	60	80	80
		ENVIRONMENT CONDITIONS (Sky/Wind)				
		CLOUDY SKY, CALM				

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: KMUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
15-Jul-20	7.33	42	32	<2
16-Jul-20	7.03	50	44	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



Analysed by


Deepanshu sahu  
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**NOISE LEVEL MONITORING DATA**

FAN HOUSE: KMUN1		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
	DETECTION LIMIT	20
JULY.2020	15-Jul-20	69.7
JULY.2020	16-Jul-20	67.7
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>

COLONY(MOHAN MAORI): KMUN2		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
	DETECTION LIMIT	20
JULY.2020	15-Jul-20	44.9
JULY.2020	16-Jul-20	45.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>

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## ENVIRONMENTAL MONITORING REPORT

### KANHAN AREA

MOHAN MAORI UG

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



AUGUST 2020

Environment Laboratory

**CMPDI**

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/AUGUST-20/75	DATE OF ISSUE	30.09.2020
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	MOHAN/MAORI UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SAM OFFICE: KAU1							
DATE(dd:mm:yy) ) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
12.08.2020	13.08.2020	89	66	22	14	BDL	Rainy, calm
26.08.2020	27.08.2020	95	72	26	13	BDL	Cloudy , calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	


PIT-OFFICE-MOHAN: KAU2							
DATE(dd:mm:yy) ) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
13.08.20	14.08.2020	76	50	31	16	12	cloudy, calm
27.08.2020	28.08.2020	69	47	35	14	BDL	Rainy, calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY HEALTH CENTER: KMUA3							
DATE(dd:mm:yy) ) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
13.08.2020	14.08.2020	76	48	29	12	BDL	cloudy, calm
NAAQS, 2009		-	100	60	80	80	

AMBARA VILLAGE: KMUA4							
DATE(dd:mm:yy) ) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
13.08.2020	14.08.2020	87	55	33	11	BDL	cloudy, calm
NAAQS, 2009		-	100	60	80	80	



Analysed by



Deepanshu sahu

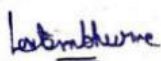
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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: KMW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
12.08.2020	7.42	56	48	BDL
18.08.2020	6.98	60	44	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

FAN HOUSE:		KMUN1
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
	DETECTION LIMIT	DAY TIME
Aug-20	12.8.2020	20
Aug-20	27.8.2020	69.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75

COLONY(MOHAN MAORI):		KMUN2
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
	DETECTION LIMIT	DAY TIME
Aug-20	12.8.2020	20
Aug-20	27.8.2020	43.4
Aug-20	27.8.2020	45.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55

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## ENVIRONMENTAL MONITORING REPORT

### MOHAN MAORI UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



SEPTEMBER 2020

**Environment Laboratory**

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

**CMPDI**

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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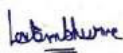
TEST REPORT NO.	RIN/TR/SEPTEMBER-20/75	DATE OF ISSUE	30.10.2020
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	MOHAN/MAORI UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SAM OFFICE: KAU1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
10.09.20	11.09.20	102	81	24	15	13	CLEAR SKY, LIGHT BREEZE
19.09.20	20.09.20	96	69	28	13	BDL	CLOUDY LIGHT BREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

PIT-OFFICE-MOHAN: KAU2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
10.09.20	11.09.20	78	56	30	13	BDL	CLEAR SKY, LIGHT BREEZE
19.09.20	20.09.20	70	47	21	15	12	CLOUDY LIGHT BREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY HEALTH CENTER: KMUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09.09.20	10.09.20	86	59	25	11	BDL	CLEAR SKY, LIGHT BREEZE
20.09.20	21.09.20	79	51	30	14	BDL	CLOUDY CALM
NAAQS, 2009		-	100	60	80	80	

AMBARA VILLAGE: KMUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
15.09.20	16.09.20	93	82	24	12	BDL	CLEAR CALM
16.09.20	17.09.20	82	71	27	10	BDL	CLOUDY CALM
NAAQS, 2009		-	100	60	80	80	



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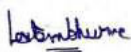
Deepanshu sahu

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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: KMWU1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
09.09.2020	7.43	58	48	BDL
20.09.2020	7.2	56	44	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

FAN HOUSE:		KMUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
SEPT'2020	07.09.2020	67.7	61.4
SEPT'2020	22.09.2020	66.7	62.3
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY(MOHAN MAORI):		KMUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
SEPT'2020	07.09.2020	48.9	40.6
SEPT'2020	22.09.2020	49.8	41.7
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

### MOHAN MAORI UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



OCTOBER 2020


#### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

#### CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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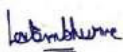
TEST REPORT NO.	RIN/TR/OCTOBER-20/75	DATE OF ISSUE	30.11.2020
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN :	LQR 47
NAME OF PROJECT	MOHAN/MAORI UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD :	LSOP 4		

SAM OFFICE: KAU1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
02.10.20	03.10.20	86	62	24	13	10	CLEAR SKY, LIGHT BREEZE
17.10.20.	18.10.20	185	121	45	14	10	CLEAR SKY, LIGHT BREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

PIT-OFFICE-MOHAN: KAU2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
02.10.20	03.10.20	92	78	27	14	10	CLEAR SKY, LIGHT BREEZE
17.10.20.	18.10.20	181	134	57	14	BDL	CLEAR SKY, LIGHT BREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY HEALTH CENTER: KMUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
03.10.20	04.10.20	69	40	23	10	BDL	CLEAR SKY, LIGHT BREEZE
17.10.20.	18.10.20	120	70	45	10	BDL	CLEAR SKY, LIGHT BREEZE
NAAQS, 2009		-	100	60	80	80	

AMBARA VILLAGE: KMUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
02.10.20	03.10.20	71	54	26	12	BDL	CLEAR SKY, LIGHT BREEZE
17.10.20.	18.10.20	115	82	26	11	BDL	CLEAR SKY, LIGHT BREEZE
NAAQS, 2009		-	100	60	80	80	



Analysed by



Deepanshu sahu

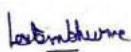
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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: KMWU1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
02.10.20	6.52	56	48	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

FAN HOUSE:		KMUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
Oct-20	09.10.20	67.7	61.4
Oct-20	21.10.20	65.5	60.8
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY(MOHAN MAORI):		KMUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
Oct-20	09.10.20	48.9	40.6
Oct-20	21.10.20	47.5	41.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

### MOHAN MAORI UG

KANHAN AREA



WESTERN COALFIELDS LTD.

JOB NO. 4634420035



NOVEMBER 2020


#### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/NOV-20/75	DATE OF ISSUE	31.12.2020
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	MOHAN/MAORI UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SAM OFFICE: KAUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
03.11.20	04.11.20	192	137	56	14	11	CLEAR CloudyCalm
18.11.20	19.11.20	180	126	43	13	BDL	CLEAR CloudyCalm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

PIT-OFFICE-MOHAN: KAUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
03.11.20	04.11.20	204	147	46	15	12	Cloudy/Calm
18.11.20	19.11.20	197	122	39	14	BDL	Cloudy/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY HEALTH CENTER: KMUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
03.11.20	04.11.20	144	82	30	10	BDL	Cloudy/Calm
18.11.20	19.11.20	127	69	27	9	BDL	Cloudy/Calm
NAAQS, 2009		-	100	60	80	80	

AMBARA VILLAGE: KMUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
03.11.20	04.11.20	110	73	44	8	BDL	Cloudy/Calm
18.11.20	19.11.20	99	61	32	7	BDL	Cloudy/Calm
NAAQS, 2009		-	100	60	80	80	

*Latimburne*

Analysed by

*Deepanshu sahu*

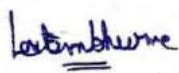
Deepanshu sahu

Authorised Signatory

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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: KMW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
03.11.20	7.86	48	44	BDL
18.11.20	3.41	68	32	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

FAN HOUSE:		KMUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
NOV'20	06.11.20	63.2	60.1
NOV'20	18.11.20	69.2	60.3
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY(MOHAN MAORI):		KMUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
NOV'20	06.11.20	42.3	39.1
NOV'20	18.11.20	46.2	41.1
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

### MOHAN MAORI UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



DECEMBER 2020

#### Environment Laboratory


NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

#### CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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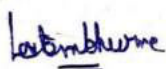
TEST REPORT NO.	RIN/TR/DEC-20/75	DATE OF ISSUE	31.01.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	MOHAN/MAORI UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SAM OFFICE: KAUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
4.12.20	5.12.20	209	155	29	13	BDL	Clear sky / Clam
18.12.20	19.12.20	212	183	32	12	11	Clear sky / Clam
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

PIT-OFFICE-MOHAN: KAUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
4.12.20	5.12.20	199	126	34	12	BDL	Clear Sky / Clam
18.12.20	19.12.20	212	151	30	11	BDL	Clear Sky / Clam
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY HEALTH CENTER: KMUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
4.12.20	5.12.20	122	71	25	10	BDL	Clear Sky / Clam
18.12.20	19.12.20	177	92	29	11	BDL	Clear Sky / Clam
NAAQS, 2009		-	100	60	80	80	

AMBARA VILLAGE: KMUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
4.12.20	5.12.20	134	83	33	12	BDL	Clear Sky / Clam
18.12.20	19.12.20	140	89	27	13	BDL	Clear Sky / Clam
NAAQS, 2009		-	100	60	80	80	



Analysed by



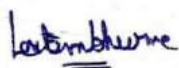
Deepanshu sahu

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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O & G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: KMWU1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
4.12.20	3.49	48	36	BDL
18.12.20	4.01	52	32	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

FAN HOUSE:		KMUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
DEC'20	04.12.20	58.3	55.5
DEC'20	18.12.20	60.6	55.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY(MOHAN MAORI):		KMUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
DEC'20	04.12.20	50.2	45.1
DEC'20	18.12.20	52.6	42.7
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

### MOHAN MAORI UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JANUARY 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

### CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-201/75	DATE OF ISSUE	28.02.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	MOHAN/MAORI UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SAM OFFICE: KAUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
02.01.2021	03.01.2021	222	155	35	15	12	Cloudy/Calm
16.01.2021	17.01.2021	236	164	30	13	BDL	Cloudy/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

PIT-OFFICE-MOHAN: KAUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
02.01.2021	03.01.2021	231	168	38	13	BDL	Cloudy/Calm
16.01.2021	17.01.2021	220	154	45	15	BDL	Cloudy/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY HEALTH CENTER: KMUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
03.01.2020	04.01.2021	109	78	26	12	BDL	Cloudy/Clam
17.01.2021	18.01.2021	124	88	30	14	BDL	Cloudy/Clam
NAAQS, 2009		-	100	60	80	80	

AMBARA VILLAGE: KMUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
03.01.2021	04.01.2021	99	69	24	9	BDL	Cloudy/Clam
16.01.2021	17.01.2021	106	76	29	12	BDL	Cloudy/Clam
NAAQS, 2009		-	100	60	80	80	

*Latimburme*

Analysed by

*Deepanshu sahu*

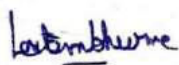
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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O & G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: KMW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
04.01.21	7.06	40	48	BDL
17.01.21	6.88	42	44	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

FAN HOUSE:		KMUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'21	08.01.2021	60.4	59.2
JAN'21	19.01.2021	62.4	60.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY(MOHAN MAORI):		KMUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'21	08.01.2021	45.4	42.7
JAN'21	19.01.2021	45.7	43.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

### MOHAN MAORI UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



FEBRUARY 2021

#### Environment Laboratory


NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

#### CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/FEB-21/75	DATE OF ISSUE	31.03.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	MOHAN/MAORI UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SAM OFFICE: KAUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
01.02.2021	02.02.2021	301	189	40	16	13	Cloudy/Calm
16.02.2021	17.02.2021	291	201	44	15	BDL	Cloudy/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

PIT-OFFICE-MOHAN: KAUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
01.02.2021	02.02.2021	342	204	43	16	BDL	Cloudy/Calm
16.02.2021	17.02.2021	327	192	40	15	11	Cloudy/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY HEALTH CENTER: KMUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
02.02.2021	03.02.2021	127	88	29	9	BDL	Cloudy/Calm
17.02.2021	18.02.2021	136	94	36	12	BDL	Cloudy/Calm
NAAQS, 2009		-	100	60	80	80	

AMBARA VILLAGE: KMUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
01.02.2021	02.02.2021	135	94	24	9	BDL	Cloudy/Calm
16.02.2021	17.02.2021	121	83	29	10	BDL	Cloudy/Calm
NAAQS, 2009		-	100	60	80	80	

*labimbhurne*

Analysed by

*Deepanshu sahu*

Deepanshu sahu

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**NOISE LEVEL MONITORING DATA**

FAN HOUSE:		KMUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
FEB'21	04.02.2021	67.7	65.4
FEB'21	19.02.2021	68.7	66.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY(MOHAN MAORI):		KMUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
FEB'21	04.02.2021	46.2	44.6
FEB'21	19.02.2021	45.9	44.1
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

### MOHAN/ MAORI UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MARCH 2021


#### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

#### CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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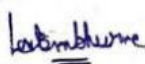
TEST REPORT NO.	RIN/TR/MAR-21/75	DATE OF ISSUE	28.04.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	MOHAN/MAORI UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SAM OFFICE: KAU1							
DATE(dd:mm:yy) ) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
02.03.2021	03.03.2021	221	155	32	12	BDL	Cloudy/Calm
18.03.2021	19.03.2021	247	170	40	10	BDL	Cloudy/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

PIT-OFFICE-MOHAN: KAU2							
DATE(dd:mm:yy) ) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
02.03.2021	03.03.2021	265	188	32	11	BDL	Cloudy/Calm
18.03.2021	19.03.2021	255	163	28	13	11	Cloudy/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY HEALTH CENTER: KMUA3							
DATE(dd:mm:yy) ) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
03.03.2021	04.03.2021	134	92	27	10	BDL	Cloudy/Calm
19.03.2021	20.03.2021	142	86	35	9	BDL	Cloudy/Calm
NAAQS, 2009		-	100	60	80	80	

AMBARA VILLAGE: KMUA4							
DATE(dd:mm:yy) ) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
02.03.2021	03.03.2021	132	88	28	10	BDL	Cloudy/Calm
18.03.2021	19.03.2021	142	79	32	9	BDL	Cloudy/Calm
NAAQS, 2009		-	100	60	80	80	

  
Analysed by

  
Deepanshu sahu  
Authorised Signatory

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- 2 This report refers to the values related to the items tested.

**NOISE LEVEL MONITORING DATA**

FAN HOUSE:		KMUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
MAR'21	05.03.2021	67.7	66.4
MAR'21	22.03.2021	67.4	65.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY(MOHAN MAORI):		KMUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
MAR'21	05.03.2021	45.9	43.8
MAR'21	22.03.2021	45.9	44.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

**ENVIRONMENTAL AUDIT STATEMENT**  
**(FORM-V)**

**NANDAN UG MINE**

**FY 2020-21**

**Prepared by-**



**WESTERN COALFIELDS LIMITED**  
**KANHAN AREA**  
**PO: DUNGARIA, CHHINDWARA (MP)-480553**

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## **EXECUTIVE SUMMARY**

E.1.0 This Environment Statement Report has been prepared as per gazette notification no. G.S.R. 329(E) dated 13<sup>th</sup> March, 1992 laid down by Ministry of Environment and Forest. The 'Environment Audit' has been subsequently renamed to '**Environment Statement**' vide MoEF gazette notification No. G.S.R. 386(E) dated 22nd April, 1993.

E.2.0 Nandan Underground Mine of Western Coalfields Ltd. is situated in Pench Kanhan Valley Coalfield, which lies in Chhindwara District of Madhya Pradesh State.

E.3.0 The planned production capacity of Nandan Underground Mine is 0.405 MTY. The Ministry of Environment & Forest, Govt. of India vide No. J-11015/237/2005-IA-II(M) Dated 17.10.2006 has granted Environmental Clearance to the Underground Mine. **The project has been temporarily discontinued since 01/07/2013.**

E.4.0 Quarterly environmental monitoring has been carried out by CMPDI for air, water and noise parameters. The results of the four quarters of 2019-20 are enclosed.

E.5.0 Environmental Statement report reveals the following facts regarding environmental aspect of this project:

E.5.1 The concentration of SO<sub>x</sub>, NO<sub>x</sub> in ambient air in core zone is well within the permissible limits.

E.5.2 The quality of mine water discharge meets the standards prescribed vide GSR 742 (E) dated 25.09.2000 with respect to all parameters.

E.5.3 No hazardous waste material is being produced either from any process or any pollution control facilities.



## **FORM-V**

### **ENVIRONMENT STATEMENT FOR COAL MINING PROJECT FINANCIAL YEAR ENDING MARCH 2020.**

#### **PART-A**

- i. **Name and address of the Mine-** Nandan Underground Mine, WCL  
Kanhana Area, PO- Damua, District-Chhindwara, Pin-480555.
- ii. **Industry Category-** Category A
- iii. **Production Capacity-** 0.405 MTY
- iv. **Date of last Environmental Statement submitted-** September 2020.

#### **PART - B**

### **WATER AND RAW MATERIAL CONSUMPTION**

**Table-A Water Consumption on Usage Pattern**

<b>Sno.</b>	<b>Water Consumption Category</b>	<b>Quantity/usage (in KL/day)</b>
<b>a)</b>	<b>Industrial</b>	
i.	Dust Suppression/recycling for roof support	Nil
ii.	Fir Fighting	Nil
iii.	Workshop and others	Nil
iv.	Green Belt/Plantation	Nil
v.	CHP Beneficiation	Nil
<b>b)</b>	<b>Domestic</b>	
i.	Domestic use	600 KL/day
ii.	Green Belt/Plantation	Nil
	<b>TOTAL</b>	<b>600 KL/day</b>

**Table-B Water Consumption against Production (including recycled)**

Name of Product	Water Consumption per unit of product (including recycled)	
	During the previous FY 2019-20	During the current FY 2020-21
COAL	Mine is not in operation since 01/07/2013	

**Table-C Raw Material Consumption**

Name of raw material	Name of product	Consumption of raw material per unit of product	
		During the previous FY 2019-20	During the current FY 2020-21
Explosive (Kg/ton)	Coal	Mine is not in operation since 01/07/2013	

**PART-C****Pollution discharged to Environment/unit of output (Parameters specified in the Consent issued)**

Sno.	Pollutants	Quantity of Pollution generated	Percentage variation from prescribed standards with reasons
a)	Water	Water Quality Monitoring reports attached for the year 2020-21	Values of parameters are well within the prescribed limits.
b)	Air	Air Quality Monitoring reports attached for the year 2020-21	Values of parameters are well within the prescribed limits.
c)	Noise	Noise Quality Monitoring reports attached for the year 2020-21	Values of parameters are well within the prescribed limits.

**PART-D**  
**HAZARDOUS WASTES**

Sno.	Hazardous Waste	Total Quantity	
		During the previous FY 2019-20	During the current FY 2020-21
a)	From Process	Nil	Nil
b)	From Pollution Control Facilities	Nil	Nil

**PART-E**  
**SOLID WASTES**

Sno.	Waste Generation	Total Quantity	
		During the previous FY 2019-20	During the current FY 2020-21
a)	From Process	Nil	Nil
b)	From Pollution Control Facilities	Nil	Nil
c)	Quantity recycled or dumped within quarry void	Nil	Nil
d)	Sold	Nil	Nil
e)	Disposed (as external dumps)	Nil	Nil

**Note- It is an underground mine.**

**PART-F**

**Please Specify the Characteristics (In Terms of Concern And Quantum) of Hazardous as well as Solid Wastes and indicate the Disposal Practice adopted for both these categories of wastes.**

Hazardous wastes is not being produced either from mining operation or from any pollution control facilities.

It is an Underground mine, only coal is extracted by Board and Pillar Continuous method and no solid waste material is generated during mining operation.

## **PART-G**

### **Impact of Pollution Control Measures on Conservation of Natural Resources and subsequently on Cost of Production.**

Mine is not in operation since 01/07/2013.

**1. Air Pollution Control Measures-**

Mine is not in operation since 01/07/2013.

**2. Water Pollution Control Measures-**

Mine is not in operation since 01/07/2013.

**3. Noise Pollution Control Measures-**

Mine is not in operation since 01/07/2013.

## **PART-H**

### **Additional Investment Proposal for Environmental Protection including abatement of Pollution.**

The project has incurred an expenditure on environmental management, details of which are as under:

<b>Sno.</b>	<b>Particulars</b>	<b>Amount</b>
1.	Consent Fees	10.88 lakhs
2.	Water Cess	Nil
3.	Environmental Monitoring Costs	Done by CMPDIL.
4.	Pollution Control Measures	Nil, Mine is not in operation since 01/07/2013.

### **Future Program for Environmental Management Measures-**

Mine is not in operation since 01/07/2013.

## **PART-I**

### **Any other Particulars in respect of Environmental Protection and abatement of Pollution**

The regular monitoring of the ambient air and water quality is being done in and around core zone and the quarterly monitoring report is submitted to the Madhya Pradesh State Pollution Control Board, Bhopal and the Ministry of Environment and Forest Regional Office, Bhopal.

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## ENVIRONMENTAL MONITORING REPORT

# NANDAN UG

KANHAN AREA

### WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MAY 2020

Environment Laboratory

## CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY

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## **INTRODUCTION**

Nandan UG Project is located in Chhindwara district of Madhya Pradesh state. The project is administered by Kanhan Area of Western Coalfields Limited. The climate of the area is tropical. Transportation roads, agricultural and local activities, vehicular traffic etc also contributes to the pollution.

### **Sampling Location:**

#### **Ambient Air Quality Monitoring locations:**

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	SAM OFFICE- NANDAN I UG:	KNUA1
2	PIT OFFICE- NANDAN II UG:	KNUA2
3	HEALTH CENTRE- NANDAN UG:	KNUA3
4	NANDAN WATER FILTER PLANT:	KNUA4

#### **Water Quality Monitoring location:**

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE DISCHARGE:	KNUW1

#### **Noise Level Monitoring location :**

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE UG II:	KNUN1
2	COLONY:	KNUN2

#### **Frequency of Monitoring:**

**AIR:** Frequency of monitoring is as per the Env. (Protection) Amendment Rules published vide Gazette dt. 25.9.2000.

**WATER:** Water quality is monitored on fortnightly basis

**NOISE:** Noise level is monitored on fortnightly basis.



## Test Report

### Air quality monitoring data

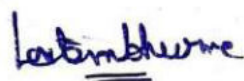
TSET REPORT NO.	RIN/TR/MAY-20/A71	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD : LSOP 4	SAMPLING PLAN : LQR 47
NAME OF PROJECT	NANDAN UG		

SAM OFFICE- NANDAN I UG: KNUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m <sup>3</sup> )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
15.05.2020	79	50	24	12	<10
29.05.2020	77	55	27	11	<10
<b>TLV</b>	<b>600</b>	<b>300</b>	<b>60</b>	<b>120</b>	<b>120</b>

PIT OFFICE- NANDAN II UG: KNUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m <sup>3</sup> )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
08.05.2020	100	77	22	12	<10
30.05.2020	95	62	20	13	<10
<b>TLV</b>	<b>600</b>	<b>300</b>	<b>60</b>	<b>120</b>	<b>120</b>

HEALTH CENTRE- NANDAN UG: KNUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m <sup>3</sup> )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
08.05.2020	70	49	30	14	11
29.05.2020	69	47	25	10	<10
<b>TLV</b>	<b>200</b>	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>

NANDAN WATER FILTER PLANT: KNUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m <sup>3</sup> )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
08.05.2020	80	55	17	7	<10
29.05.2020	78	52	15	10	<10
<b>TLV</b>	<b>200</b>	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU  
AUTHORIZED SIGNATORY

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## Test Report

### Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W71	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	NANDAN UG	SAMPLING PLAN : LQR 47	

MINE DISCHARGE: KNUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
07.05.2020	7.3	38	32	<2
28.05.2020	7.1	20	36	<2
TLV	5.5 - 9.0	100	250	10



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## NOISE LEVEL DATA

**NAME OF AREA: KANHAN AREA**  
**NAME OF PROJECT: NANDAN UG**

**YEAR: 2020**  
**MONTH: MAY**

FAN HOUSE UG II: KNUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	13.05.2020	56.4	52.7
MAY-2020	28.05.2020	62.4	60.1
<b>TLV</b>		<b>75</b>	<b>70</b>

COLONY: KNUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	13.05.2020	45.2	42.4
MAY-2020	28.05.2020	45.6	42.9
<b>TLV</b>		<b>55</b>	<b>45</b>

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**ENVIRONMENTAL MONITORING REPORT**

**NANDAN UG**

KANHAN AREA

**WESTERN COALFIELDS LTD.**

JOB NO. 4634420035



**JUNE 2020**

**Environment Laboratory**

**CMPDI**

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

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#### **Sampling Location:**

##### **Ambient Air Quality Monitoring locations:**

SL. NO.	LOCATION DETAIL	LOCATION CODE
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2	PIT OFFICE- NANDAN II UG:	KNUA2
3	HEALTH CENTRE- NANDAN UG:	KNUA3
4	NANDAN WATER FILTER PLANT:	KNUA4

##### **Water Quality Monitoring location:**

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE DISCHARGE:	KNUW1

##### **Noise Level Monitoring location :**

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE UG II:	KNUN1
2	COLONY:	KNUN2

##### **Frequency of Monitoring:**

**AIR:** Frequency of monitoring is as per the Env. (Protection) Amendment Rules published vide Gazette dt. 25.9.2000.

**WATER:** Water quality is monitored on fortnightly basis

**NOISE:** Noise level is monitored on fortnightly basis.

## Test Report

### Air quality monitoring data

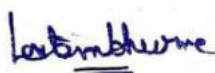
TEST REPORT NO.	RIN/TR/JUNE-20/A71	DATE OF ISSUE	31-07-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	NANDAN UG	SAMPLING PLAN : LQR 47	

SAM OFFICE- NANDAN I UG: KNUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
15-06-20	82	60	27	9	<10
18-06-20	71	51	31	8	<10
TLV	600	300	60	120	120

PIT OFFICE- NANDAN II UG: KNUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
15-06-20	90	58	24	9	<10
18-06-20	83	54	32	10	<10
TLV	600	300	60	120	120

HEALTH CENTRE- NANDAN UG: KNUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
14-06-20	74	55	26	10	<10
19-06-20	63	42	20	11	<10
TLV	200	100	60	80	80

NANDAN WATER FILTER PLANT: KNUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
14-06-20	81	53	30	14	<10
19-06-20	74	49	21	18	<10
TLV	200	100	60	80	80



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DEEPANSHU SAHU  
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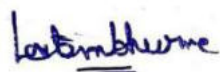
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## Test Report

### Effluent water quality monitoring data

TEST REPORT NO.	RIN/TR/JUNE-20/W71	DATE OF ISSUE	31-07-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	NANDAN UG	SAMPLING PLAN : LQR 47	

MINE DISCHARGE: KNUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
13-06-20	7.52	28	32	<2
18-06-20	7.16	22	36	<2
TLV	5.5 - 9.0	100	250	10



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**NOISE LEVEL DATA**

**NAME OF AREA: KANHAN AREA**  
**NAME OF PROJECT: NANDAN UG**

**YEAR: 2020**  
**MONTH: JUNE**

FAN HOUSE UG II: KNUN1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	13-06-20	60.2
JUNE 2020	18-06-20	61.4
<b>TLV</b>		<b>75</b>

COLONY: KNUN2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	14-06-20	45.1
JUNE 2020	16-06-20	45.6
<b>TLV</b>		<b>55</b>

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
---	--------------------	--

TEST REPORT NO.		RIN/TR/JULY-20/76		DATE OF ISSUE		31.08.2020	
NAME OF CUSTOMER		GM(ENV.), WCL(HQ), NAGPUR					
CUSTOMER LETTER REFERENCE NO.		WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20					
TEST REQUIRED		SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)					
NAME OF AREA		KANHAN		SAMPLING PLAN : LQR 47			
NAME OF PROJECT		NANDAN UG					
SAMPLE DESCRIPTION		Air sample					
SAMPLING METHOD : LSOP 4							

SAM OFFICE-NANDAN I UG: KNUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
13-Jul-20	14-Jul-20	63	46	34	10	<10	CLOUDY SKY, CALM
26-Jul-20	27-Jul-20	71	55	30	12	<10	CLOUDY SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

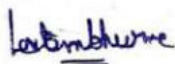
PIT OFFICE NANADAN II UG: KNUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
14-Jul-20	15-Jul-20	72	60	26	9	<10	CLOUDY SKY, CALM
27-Jul-20	28-Jul-20	88	47	33	16	11	CLOUDY SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

HEALTH CENTER-NANADAN UG: KNUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
14-Jul-20	15-Jul-20	72	49	23	15	<10	CLOUDY SKY, CALM
27-Jul-20	28-Jul-20	78	58	27	13	<10	CLOUDY SKY, CALM
NAAQS, 2009		-	100	60	80	80	

NANDAN WATER FILTER PLANT: KNWA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
13-Jul-20	14-Jul-20	81	56	28	19	11	CLOUDY SKY, CALM
26-Jul-20	27-Jul-20	92	49	32	14	<10	CLOUDY SKY, CALM
NAAQS, 2009		-	100	60	80	80	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: KNUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
13-Jul-20	7.51	34	32	<2
26-Jul-20	7.72	24	28	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



Analysed by


Deepanshu sahu  
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**NOISE LEVEL MONITORING DATA**

FAN HOUSE UG II: KNUN1		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
	DETECTION LIMIT	20
JULY.2020	13-Jul-20	59.7
JULY.2020	26-Jul-20	59.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>

COLONY: KNUN2		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
	DETECTION LIMIT	20
JULY.2020	13-Jul-20	44.2
JULY.2020	26-Jul-20	43.8
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>

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## ENVIRONMENTAL MONITORING REPORT

### KANHAN AREA

NANDAN UG

WESTERN COALFIELDS LTD.

JOB NO. 4634420035




AUGUST 2020

Environment Laboratory

**CMPDI**

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/AUGUST-20/76	DATE OF ISSUE	30.09.2020
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	NANDAN UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SAM OFFICE-NANDAN I UG: KNUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
09/08/20	10/08/20	89	62	27	16	11	Cloudy Calm
24/08/2020	25/08/2020	75	53	24	15	BDL	Rainy, calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

PIT OFFICE NANADAN II UG: KNUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
10/08/20	11/08/20	80	51	30	15	BDL	Rainy, calm
25/08/2020	26/08/2020	70	44	27	13	BDL	Rainy, calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

HEALTH CENTER-NANDAN UG: KNUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
10/08/20	11/08/20	82	50	33	13	BDL	Rainy, calm
23/08/2020	24/08/2020	79	44	29	14	BDL	Rainy, calm
NAAQS, 2009		-	100	60	80	80	

NANDAN WATER FILTER PLANT: KNWA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
09/08/20	10/08/20	86	55	28	12	BDL	cloudy, calm
24/08/2020	25/08/2020	80	45	25	11	BDL	cloudy, calm
NAAQS, 2009		-	100	60	80	80	



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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: KNUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
10.08.2020	7.32	22	32	BDL
24.08.2020	7.5	26	32	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

FAN HOUSE UG II: KNUN1		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
	DETECTION LIMIT	20
20-Aug	10.08.2020	65.4
20-Aug	23.08.2020	57.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75

COLONY: KNUN2		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
	DETECTION LIMIT	20
Aug-20	10.08.2020	44.4
Aug-20	23.08.2020	43.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55



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## ENVIRONMENTAL MONITORING REPORT

### NANDAN UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



SEPTEMBER 2020


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

### CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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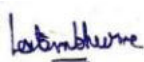
TEST REPORT NO.		RIN/TR/SEPTEMBER-20/76		DATE OF ISSUE		30.10.2020	
NAME OF CUSTOMER		GM(ENV.), WCL(HQ), NAGPUR					
CUSTOMER LETTER REFERENCE NO.		WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20					
TEST REQUIRED		SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance					
NAME OF AREA		KANHAN			SAMPLING PLAN : LQR 47		
NAME OF PROJECT		NANDAN UG					
SAMPLE DESCRIPTION		Air sample					
SAMPLING METHOD : LSOP 4							

SAM OFFICE-NANDAN I UG: KNUA1						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>
07.09.20	08.09.20	89	60	22	14	BDL
22.09.20	23.09.20	77	53	20	13	BDL
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120

PIT OFFICE NANADAN II UG: KNUA2						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>
07.09.20	08.09.20	81	51	25	12	BDL
22.09.20	23.09.20	76	48	22	15	BDL
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120

HEALTH CENTER-NANADAN UG: KNUA3						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>
06.09.20	07.09.20	83	52	35	16	BDL
23.09.20	24.09.20	74	40	28	14	BDL
NAAQS, 2009		-	100	60	80	80

NANDAN WATER FILTER PLANT: KNWA4						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>
06.09.20	07.09.20	92	53	33	10	BDL
23.09.20	24.09.20	83	41	30	12	BDL
NAAQS, 2009		-	100	60	80	80



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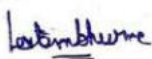
Deepanshu sahu

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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: KNUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
06.09.2020	7.38	24	36	BDL
23.09.2020	7.43	22	24	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

FAN HOUSE UG II:		KNUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
SEPT' 2020	07.09.2020	63.4	61.2
SEPT' 2020	22.09.2020	62.5	60.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY:		KNUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
SEPT' 2020	07.09.2020	43.6	40.2
SEPT' 2020	22.09.2020	46.7	41.3
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

### NANDAN UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



OCTOBER 2020


#### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

#### CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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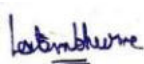
TEST REPORT NO.	RIN/TR/OCTOBER-20/76	DATE OF ISSUE	30.11.2020
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN :	LQR 47
NAME OF PROJECT	NANDAN UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD :	LSOP 4		

SAM OFFICE-NANDAN I UG: KNUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
07.10.20	08.10.20	75	44	21	10	BDL	CLEAR SKY,LIGHT BREEZE
21.10.20	22.10.20	210	165	42	12	BDL	CLEAR SKY,LIGHT BREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

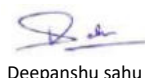
PIT OFFICE NANADAN II UG: KNUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
06.10.20	07.10.20	81	50	25	12	BDL	CLEAR SKY,LIGHT BREEZE
20.10.20	21.10.20	199	154	56	12	BDL	CLEAR SKY,LIGHT BREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

HEALTH CENTER-NANADAN UG: KNUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
06.10.20	07.10.20	71	39	22	10	BDL	CLEAR SKY,LIGHT BREEZE
20.10.20	21.10.20	104	71	24	11	BDL	CLEAR SKY,LIGHT BREEZE
NAAQS, 2009		-	100	60	80	80	

NANDAN WATER FILTER PLANT: KNWA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
07.10.20	08.10.20	72	44	23	10	BDL	CLEAR SKY,LIGHT BREEZE
21.10.20	22.10.20	110	62	23	10	BDL	CLEAR SKY,LIGHT BREEZE
NAAQS, 2009		-	100	60	80	80	



Analysed by



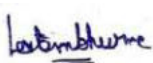
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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: KNUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
6.10.2020	7.48	36	40	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

<b>FAN HOUSE UG II: KNUN1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
Oct-20	09.10.20	69.4	67.1
Oct-20	21.10.20	67.9	66.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY: KNUN2</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
Oct-20	09.10.20	49.6	40.2
Oct-20	21.10.20	50.1	41.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

### NANDAN UG

KANHAN AREA

**WESTERN COALFIELDS LTD.**

JOB NO. 4634420035



NOVEMBER 2020


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

### CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.		RIN/TR/NOV-20/76		DATE OF ISSUE		31.12.2020	
NAME OF CUSTOMER		GM(ENV.), WCL(HQ), NAGPUR					
CUSTOMER LETTER REFERENCE NO.		WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20					
TEST REQUIRED		SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)					
NAME OF AREA		KANHAN		SAMPLING PLAN : LQR 47			
NAME OF PROJECT		NANDAN UG					
SAMPLE DESCRIPTION		Air sample					
SAMPLING METHOD : LSOP 4							

SAM OFFICE-NANDAN I UG: KNUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
07.11.20	08.11.20	212	170	67	11	BDL	Cloudy/Calm
22.11.20	23.11.20	234	181	55	17	12	Clear/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

PIT OFFICE NANADAN II UG: KNUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
06.11.20	07.11.20	209	147	55	10	BDL	Cloudy/Calm
21.11.20	22.11.20	227	162	63	12	BDL	Clear/Windy
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

HEALTH CENTER-NANADAN UG: KNUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
06.11.20	07.11.20	99	61	30	9	BDL	Cloudy/Calm
21.11.20	22.11.20	109	72	43	11	BDL	Clear/Windy
NAAQS, 2009		-	100	60	80	80	

NANDAN WATER FILTER PLANT: KNWA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
07.11.20	08.11.20	102	69	33	10	BDL	Cloudy/Calm
22.11.20	23.11.20	113	73	41	12	BDL	Clear/Calm
NAAQS, 2009		-	100	60	80	80	



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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: KNUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
03.11.20	7.91	26	36	BDL
18.11.20	7.73	24	32	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

<b>FAN HOUSE UG II: KNUN1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
NOV'20	06.11.20	64.2	61.3
NOV'20	22.11.20	62.1	52.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY: KNUN2</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
NOV'20	06.11.20	40.2	36.1
NOV'20	22.11.20	65.4	60.3
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

### NANDAN UG

KANHAN AREA

**WESTERN COALFIELDS LTD.**

JOB NO. 4634420035



DECEMBER 2020


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

### CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.		RIN/TR/DEC-20/76		DATE OF ISSUE		31.01.2021	
NAME OF CUSTOMER		GM(ENV.), WCL(HQ), NAGPUR					
CUSTOMER LETTER REFERENCE NO.		WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20					
TEST REQUIRED		SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)					
NAME OF AREA		KANHAN		SAMPLING PLAN : LQR 47			
NAME OF PROJECT		NANDAN UG					
SAMPLE DESCRIPTION		Air sample					
SAMPLING METHOD : LSOP 4							

SAM OFFICE-NANDAN I UG: KNUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
8.12.20	9.12.20	189	147	36	14	11	Clear/Calm
22.12.20	23.12.20	203	153	31	13	BDL	Clear/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

PIT OFFICE NANADAN II UG: KNUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
7.12.20	8.12.20	163	121	32	13	BDL	Clear/Clam
21.12.20	22.12.20	183	142	27	14	BDL	Clear/Clam
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

HEALTH CENTER-NANADAN UG: KNUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
7.12.20	8.12.20	119	83	24	14	BDL	Clear/Clam
21.12.20	22.12.20	110	70	29	12	BDL	Clear/Clam
NAAQS, 2009		-	100	60	80	80	

NANDAN WATER FILTER PLANT: KNWA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
8.12.20	9.12.20	130	86	26	12	BDL	Clear/Calm
22.12.20	23.12.20	119	72	29	13	BDL	Clear/Calm
NAAQS, 2009		-	100	60	80	80	



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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: KNUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
7.12.20	7.98	28	36	BDL
18.12.20	7.92	26	32	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

<b>FAN HOUSE UG II: KNUN1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'20	08.12.20	61.1	54.6
DEC'20	22.12.20	52.1	40.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY: KNUN2</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'20	08.12.20	43.1	39.6
DEC'20	22.12.20	45.3	40.3
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

### NANDAN UG

KANHAN AREA

**WESTERN COALFIELDS LTD.**

JOB NO. 4634420035



JANUARY 2021

### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

### CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.		RIN/TR/JAN-21/76		DATE OF ISSUE		28.02.2021	
NAME OF CUSTOMER		GM(ENV.), WCL(HQ), NAGPUR					
CUSTOMER LETTER REFERENCE NO.		WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20					
TEST REQUIRED		SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)					
NAME OF AREA		KANHAN		SAMPLING PLAN : LQR 47			
NAME OF PROJECT		NANDAN UG					
SAMPLE DESCRIPTION		Air sample					
SAMPLING METHOD : LSOP 4							

SAM OFFICE-NANDAN I UG: KNUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
07.01.2021	08.01.2021	231	177	41	12	BDL	Cloudy/Calm
21.01.2021	22.01.2021	247	192	47	14	BDL	Cloudy/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

PIT OFFICE NANADAN II UG: KNUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
06.10.2021	07.01.2021	230	156	36	13	BDL	Cloudy/Calm
20.01.2021	21.01.2021	245	188	41	15	BDL	Cloudy/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

HEALTH CENTER-NANADAN UG: KNUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
07.01.2021	08.01.2021	101	67	25	11	BDL	Cloudy/Calm
19.01.2021	20.01.2021	117	82	32	13	BDL	Cloudy/Calm
NAAQS, 2009		-	100	60	80	80	

NANDAN WATER FILTER PLANT: KNWA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
06.01.2021	07.01.2021	93	57	26	10	BDL	Cloudy/Calm
20.01.2021	22.01.2021	106	68	32	12	BDL	Cloudy/Calm
NAAQS, 2009		-	100	60	80	80	



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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: KNUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
07.01.2021	8.2	30	40	BDL
21.01.2021	7.89	26	36	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

<b>FAN HOUSE UG II: KNUN1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'21	08.01.2021	50.4	48.7
JAN'21	19.01.2021	57.2	49.1
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY: KNUN2</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'21	08.01.2021	45.2	43.9
JAN'21	19.01.2021	45.6	43.7
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

# NANDAN UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



FEBRUARY 2021


**Environment Laboratory**

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

**CMPDI**

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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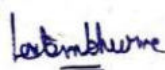
TEST REPORT NO.	RIN/TR/FEB-21/76	DATE OF ISSUE	31.03.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	NANDAN UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SAM OFFICE-NANDAN I UG: KNUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
05.02.2021	06.02.2021	274	188	33	16	11	Cloudy/Calm
21.02.2021	22.02.2021	266	191	29	14	BDL	Cloudy/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

PIT OFFICE NANADAN II UG: KNUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
04.02.2021	05.02.2021	282	206	42	15	11	Cloudy/Calm
20.02.2021	21.02.2021	274	197	40	14	BDL	Cloudy/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

HEALTH CENTER-NANADAN UG: KNUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
05.02.2021	06.02.2021	138	93	31	11	BDL	Cloudy/Calm
19.02.2021	20.02.2021	129	86	38	10	BDL	Cloudy/Calm
NAAQS, 2009		-	100	60	80	80	

NANDAN WATER FILTER PLANT: KNWA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
05.02.2021	06.02.2021	132	87	26	9	BDL	Cloudy/Clam
20.02.2021	21.02.2021	140	96	25	12	BDL	Cloudy/Clam
NAAQS, 2009		-	100	60	80	80	



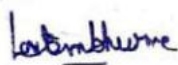
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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: KNUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
05.02.2021	8.08	24	32	BDL
21.02.2021	8.19	26	36	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

<b>FAN HOUSE UG II: KNUN1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
FEB'21	04.02.2021	60.7	58.4
FEB'21	19.02.2021	60.2	59.1
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY: KNUN2</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
FEB'21	04.02.2021	45.2	44.4
FEB'21	19.02.2021	45.5	43.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

### NANDAN UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MARCH 2021


#### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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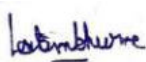
TEST REPORT NO.	RIN/TR/MAR-21/76	DATE OF ISSUE	28.04.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> : IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	NANDAN UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SAM OFFICE-NANDAN I UG: KNUA1						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )				
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>
06.03.2021	07.03.2021	265	191	31	12	BDL
23.03.2021	24.03.2021	277	188	35	14	BDL
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120

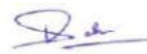
PIT OFFICE NANADAN II UG: KNUA2						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )				
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>
05.03.2021	06.03.2021	325	201	41	14	BDL
22.03.2021	23.03.2021	309	190	36	16	11
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120

HEALTH CENTER-NANDAN UG: KNUA3						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )				
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>
06.03.2021	07.03.2021	126	78	24	9	BDL
21.03.2021	22.03.2021	137	85	29	11	BDL
NAAQS, 2009		-	100	60	80	80

NANDAN WATER FILTER PLANT: KNWA4						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )				
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>
06.03.2021	07.03.2021	124	78	27	10	BDL
22.03.2021	23.03.2021	131	89	30	12	BDL
NAAQS, 2009		-	100	60	80	80



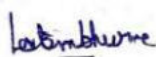
Analysed by


Deepanshu sahu  
Authorised Signatory

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- 2 This report refers to the values related to the items tested.

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C:2017,O & G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: KNUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
05.03.2021	7.84	24	36	BDL
20.03.2021	7.9	26	32	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



Analysed by


Deepanshu sahu  
Authorised Signatory

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**NOISE LEVEL MONITORING DATA**

<b>FAN HOUSE UG II: KNUN1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
MAR'21	05.03.2021	58.7	57.6
MAR'21	22.03.2021	50.4	55.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY: KNUN2</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
MAR'21	05.03.2021	45.4	43.4
MAR'21	22.03.2021	45.2	42.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

**ENVIRONMENTAL AUDIT STATEMENT**  
**(FORM-V)**

**Nandan Washery Kanhan Area**

**FY 2020-21**

**Prepared by-**



**WESTERN COALFIELDS LIMITED**  
**KANHAN AREA**  
**PO: DUNGARIA, CHHINDWARA (MP)-480553**

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## **EXECUTIVE SUMMARY**

E.1.0 This Environment Statement Report has been prepared as per gazette notification no. G.S.R. 329(E) dated 13<sup>th</sup> March, 1992 laid down by Ministry of Environment and Forest. The 'Environment Audit' has been subsequently renamed to '**Environment Statement**' vide MoEF gazette notification No. G.S.R. 386(E) dated 22nd April, 1993.

E.2.0 Nandan washery of Kanhan Area, Western Coalfields Ltd. is situated in Pench-Kanhan Valley Coalfield, which lies in Chhindwara District of Madhya Pradesh State.

E.3.0 The Coal Washery has a Consent to Operate under Water Act, 1974 and Air Act, 1981 valid up to 30/04/2021. **The washing operation have been closed since Feb 2017.**

E.4.0 Quarterly environmental monitoring has been carried out by CMPDI for air, water and noise parameters. The results of the four quarters of 2020-21 are enclosed.

E.5.0 Environmental Statement report reveals the following facts regarding environmental aspect of this project:

E.5.1 The concentration of SO<sub>2</sub>, NO<sub>x</sub> in ambient air in core zone is well within the permissible limits.

E.5.2 The noise level in the core and buffer zone is not crossing the threshold value of 85dB.

## **FORM-V**

### **ENVIRONMENT STATEMENT FOR COAL WASHERY PROJECT FINANCIAL YEAR ENDING MARCH 2021.**

#### **PART-A**

- i. **Name and address of the Mine-** Nandan Washery, WCL Kanhan Area,  
PO- Nandan, District-Chhindwara, Pin-480555.
- ii. **Industry Category-** Category A
- iii. **Production Capacity-** Clean coal-0.24 MTPA  
Middling's- 0.144 MTPA
- iv. **Old Stock as on date-** Clean Coal- 245 Tonnes  
Middlings-29 Tonnes  
Raw Coal- 117 Tonnes  
Coal Slurry-02 Tonnes
- iv. **Dispatch from Old Stock in FY 2020-21-** Nil
- v. **Date of last Environmental Statement submitted-** September 2020.



## **PART - B**

### **WATER AND RAW MATERIAL CONSUMPTION**

**Table-A Water Consumption on Usage Pattern**

<b>Sno.</b>	<b>Water Consumption Category</b>	<b>Quantity/usage (in KL/day)</b>
<b>a)</b>	<b>Industrial</b>	
i.	Dust Suppression/recycling for roof support	Nil
ii.	Fir Fighting	Nil
iii.	Workshop and others	Nil
iv.	Green Belt/Plantation	Nil
v.	CHP Beneficiation	Nil
<b>b)</b>	<b>Domestic</b>	
i.	Domestic use	225 KL/day
ii.	Green Belt/Plantation	Nil
	<b>TOTAL</b>	<b>225 KL/day</b>

**Table-B Water Consumption against Production (including recycled)**

<b>Name of Product</b>	<b>Water Consumption per unit of product (including recycled)</b>	
	<b>During the previous FY 2019-20</b>	<b>During the current FY 2020-21</b>
Coal Washing operation closed since Feb 2017		

**Table-C Raw Material Consumption**

Name of raw material	Name of product	Consumption of raw material per unit of product	
		During the previous FY 2019-20	During the current FY 2020-21
Coal Washing operation closed since Feb 2017			

### **PART-C**

**Pollution discharged to Environment/unit of output (Parameters specified in the Consent issued)**

<b>Sno.</b>	<b>Pollutants</b>	<b>Quantity of Pollution generated</b>	<b>Percentage variation from prescribed standards with reasons</b>
a)	Water	Monitoring Reports attached for the year 2020-21.	Value of parameters are well within the permissible limits.
b)	Air		
c)	Noise		

### **PART-D**

#### **HAZARDOUS WASTES**

<b>Sno.</b>	<b>Hazardous Waste</b>	<b>Total Quantity</b>	
		<b>During the previous FY 2019-20</b>	<b>During the current FY 2020-21</b>
a)	From Process	Not Applicable	
b)	From Pollution Control Facilities		

### **PART-E**

#### **SOLID WASTES**

<b>Sno.</b>	<b>Waste Generation</b>	<b>Total Quantity</b>	
		<b>During the previous FY 2019-20</b>	<b>During the current FY 2020-21</b>
a)	From Process	Not Applicable.	
b)	From Pollution Control Facilities		
c)	Quantity recycled or dumped within quarry void		
d)	Sold		
e)	Disposed (as external dumps)		

**(It is a Coal Washery Project)**

## **PART-F**

**Please Specify the Characteristics (In Terms of Concern And Quantum) of Hazardous as well as Solid Wastes and indicate the Disposal Practice adopted for both these categories of wastes.**

It is a coal washing project and no Hazardous wastes is generated due to any activity carried out in washery. Coal Washing operation closed since Feb 2017

## **PART-G**

**Impact of Pollution Control Measures on Conservation of Natural Resources and subsequently on Cost of Production.**

The following pollution control measures have been implemented at regional Workshop, Kanhan Area.

### **1.0 AIR POLLUTION CONTROL MEASURES**

- (a) Fixed Sprinklers- 105 nos. are provided on coal transportation road and in stock yard.
- (b) One mobile sprinkler of capacity 4500 litres is used for dust suppression.
- (c) Stone wall of height 1.2 m is provided around coal stockyard.
- (d) Till date 1.04 lakhs no. of Plants have been planted within the lease hold area.

### **2.0 WATER POLLUTION CONTROL MEASURES**

- (a) Clarifier of 13000 m<sup>3</sup> capacity is used for treatment of water discharge from washery and is recycled back.
- (b) Garland drain is provided around slurry stockyard.

Coal Washing operation closed since Feb 2017

### **3.0. NOISE POLLUTION CONTROL MEASURES**

Development of green belt, ear plugs & helmets are issued to the workers

## **PART-H**

### **Additional Investment Proposal for Environmental Protection including abatement of Pollution.**

The project has incurred an expenditure on environmental management, details of which are as under:

<b>Sr. No.</b>	<b>Particulars</b>	<b>Amount</b>
1.	Consent Fees paid	Already paid upto 30/04/2022.
2.	Air Pollution Control	Nil
3.	Water Cess	Nil

The Washing operation has been temporarily closed since Feb 2017.

#### **Future Programme for Environmental management Measures:**

The Washing operation has been temporarily closed since Feb 2017.

## **PART-I**

### **Any other Particulars in respect of Environmental Protection and abatement of Pollution**

The regular monitoring of the ambient air and water quality is being done in and around core zone and the quarterly monitoring report is submitted to the Madhya Pradesh State Pollution Control Board, Bhopal and the Ministry of Environment and Forest Regional Office, Bhopal.

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## ENVIRONMENTAL MONITORING REPORT

# NANDAN WASHERY

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MAY 2020

Environment Laboratory

**CMPDI**

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY

## **INDEX**

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1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4
4	NOISE LEVEL DATA	5

## **INTRODUCTION**

Nandan Washery is located in Chhindwara district of Madhya Pradesh state. The project is administered by Kanhan Area of Western Coalfields Limited. The climate of the area is tropical. Transportation roads, agricultural and local activities, vehicular traffic etc also contributes to the pollution.

### **Sampling Location:**

#### **Ambient Air Quality Monitoring locations:**

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	SUBSTATION :	KNWA1
2	SAM OFFICE- NANDAN I UG:	KNWA2
3	COLONY-GUEST HOUSE:	KNWA3
4	NANDAN WATER FILTER PLANT:	KNWA4

#### **Noise Level Monitoring location :**

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	WASHERY:	KNWN1
2	COLONY:	KNWN2

#### **Frequency of Monitoring:**

**AIR:** Frequency of monitoring is as per the Env. (Protection) Amendment Rules published vide Gazette dt. 25.9.2000.

**WATER:** Water quality is monitored on fortnightly basis

**NOISE:** Noise level is monitored on fortnightly basis.

## Test Report

### Air quality monitoring data

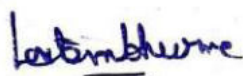
TSET REPORT NO.	RIN/TR/MAY-20/A70	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM <sub>10</sub> : IS-5182 Part 23:2006(RA 2017), PM <sub>2.5</sub> : USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>x</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN AREA		SAMPLING METHOD : LSOP 4
NAME OF PROJECT	NANDAN WASHERY		SAMPLING PLAN : LQR 47

SUBSTATION : KNWA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
07.05.2020	88	58	30	16	<10
23.05.2020	79	52	31	13	<10
TLV	600	300	60	120	120

SAM OFFICE- NANDAN I UG: KNWA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
15.05.2020	79	50	24	12	<10
29.05.2020	77	55	27	11	<10
TLV	600	300	60	120	120

COLONY-GUEST HOUSE: KNWA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
08.05.2020	95	66	26	12	<10
29.05.2020	68	45	24	11	<10
TLV	200	100	60	80	80

NANDAN WATER FILTER PLANT: KNWA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
08.05.2020	80	55	17	7	<10
29.05.2020	78	52	15	10	<10
TLV	200	100	60	80	80



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU  
AUTHORIZED SIGNATORY

- |   |  |
|---|--|
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## NOISE LEVEL DATA

**NAME OF AREA: KANHAN AREA**                      **YEAR: 2020**  
**NAME OF PROJECT: NANDAN WASHERY**              **MONTH: MAY**

WASHERY: KNWN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	13.05.2020	46.7	42.9
MAY-2020	28.05.2020	47.7	44.9
<b>TLV</b>		<b>75</b>	<b>70</b>

COLONY: KNWN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	13.05.2020	44.6	41.5
MAY-2020	28.05.2020	45.4	43.6
<b>TLV</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

# NANDAN WASHERY

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JUNE 2020

Environment Laboratory

**CMPDI**

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
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<b>4</b>	<b>NOISE LEVEL DATA</b>	<b>5</b>

## **INTRODUCTION**

Nandan Washery is located in Chhindwara district of Madhya Pradesh state. The project is administered by Kanhan Area of Western Coalfields Limited. The climate of the area is tropical. Transportation roads, agricultural and local activities, vehicular traffic etc also contributes to the pollution.

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#### **Ambient Air Quality Monitoring locations:**

SL. NO.	LOCATION DETAIL	LOCATION CODE
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2	SAM OFFICE- NANDAN I UG:	KNWA2
3	COLONY-GUEST HOUSE:	KNWA3
4	NANDAN WATER FILTER PLANT:	KNWA4

#### **Noise Level Monitoring location :**

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	WASHERY:	KNWN1
2	COLONY:	KNWN2

#### **Frequency of Monitoring:**

**AIR:** Frequency of monitoring is as per the Env. (Protection) Amendment Rules published vide Gazette dt. 25.9.2000.

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**NOISE:** Noise level is monitored on fortnightly basis.

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### Air quality monitoring data

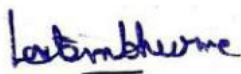
TSET REPORT NO.	RIN/TR/JUNE-20/A70	DATE OF ISSUE	31-07-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM <sub>10</sub> : IS-5182 Part 23:2006(RA 2017), PM <sub>2.5</sub> : USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>x</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN AREA		SAMPLING METHOD : LSOP 4
NAME OF PROJECT	NANDAN WASHERY		SAMPLING PLAN : LQR 47

SUBSTATION : KNWA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
14-06-20	85	56	32	10	<10
19-06-20	90	61	29	9	<10
TLV	600	300	60	120	120

SAM OFFICE- NANDAN I UG: KNWA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
15-06-20	82	60	27	9	<10
18-06-20	71	51	31	8	<10
TLV	600	300	60	120	120

COLONY-GUEST HOUSE: KNWA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
14-06-20	66	42	29	11	<10
19-06-20	72	47	22	16	<10
TLV	200	100	60	80	80

NANDAN WATER FILTER PLANT: KNWA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
14-06-20	81	53	30	14	<10
19-06-20	74	49	21	18	<10
TLV	200	100	60	80	80



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU  
AUTHORIZED SIGNATORY

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## NOISE LEVEL DATA

NAME OF AREA: KANHAN AREA      YEAR: 2020  
NAME OF PROJECT: NANDAN WASHERY      MONTH: JUNE

WASHERY: KNWN1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	13-06-20	45.5
JUNE 2020	18-06-20	45.7
TLV		75

COLONY: KNWN2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	13-06-20	44.3
JUNE 2020	18-06-20	43.9
TLV		55

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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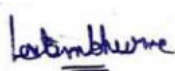
TEST REPORT NO.	RIN/TR/JULY-20/77	DATE OF ISSUE	31.08.2020
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	NANDAN WASHERY		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SUBSTATION: KNWA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
13-Jul-20	14-Jul-20	83	52	32	10	<10	CLOUDY SKY, CALM
26-Jul-20	27-Jul-20	92	64	29	11	<10	CLOUDY SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SAM OFFICE NANDAN I UG: KNUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
13-Jul-20	14-Jul-20	63	46	34	10	<10	CLOUDY SKY, CALM
26-Jul-20	27-Jul-20	71	55	30	12	<10	CLOUDY SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY GUEST HOUSE: KNWA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
13-Jul-20	14-Jul-20	77	44	27	14	<10	CLOUDY SKY, CALM
26-Jul-20	27-Jul-20	88	51	27	16	11	CLOUDY SKY, CALM
NAAQS, 2009		-	100	60	80	80	

NANDAN WATER FILTER PLANT: KNWA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
13-Jul-20	14-Jul-20	81	56	28	19	11	CLOUDY SKY, CALM
26-Jul-20	27-Jul-20	92	49	32	14	<10	CLOUDY SKY, CALM
NAAQS, 2009		-	100	60	80	80	

  
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**NOISE LEVEL MONITORING DATA**

WASHERY: KNWN1		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
	DETECTION LIMIT	20
JULY.2020	13-Jul-20	44.7
JULY.2020	26-Jul-20	44.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>

COLONY(NANDAN WASHERY): KNWN2		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
	DETECTION LIMIT	20
JULY.2020	13-Jul-20	44.4
JULY.2020	26-Jul-20	45.1
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>



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## **ENVIRONMENTAL MONITORING REPORT**

### **KANHAN AREA**

**NANDAN WASHERY**

**WESTERN COALFIELDS LTD.**

JOB NO. 4634420035



**AUGUST 2020**

**Environment Laboratory**

**CMPDI**

**REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014**

**AN ISO 9001:2015 COMPANY**

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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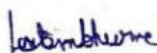
TEST REPORT NO.	RIN/TR/AUGUST-20/77	DATE OF ISSUE	30.09.2020
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> : IS 5182 Part-2:2001(RA		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	NANDAN WASHERY		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SUBSTATION: KNWA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09/08/20	10/08/20	86	60	27	16	11	Cloudy calm
24/08/2020	25/08/2020	79	52	24	12	BDL	Rainy, Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SAM OFFICE NANDAN I UG: KNUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09/08/20	10/08/20	89	62	27	16	11	Cloudy calm
24/08/2020	25/08/2020	75	53	24	15	BDL	Rainy, Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY GUEST HOUSE: KNWA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09/08/20	10/08/20	78	49	32	14	BDL	Cloudy calm
24/08/2020	25/08/2020	70	41	26	12	BDL	Rainy, Calm
NAAQS, 2009		-	100	60	80	80	

NANDAN WATER FILTER PLANT: KNWA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09/08/20	10/08/20	86	55	28	12	BDL	Cloudy calm
24/08/2020	25/08/2020	80	45	25	11	BDL	Rainy, Calm
NAAQS, 2009		-	100	60	80	80	



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**NOISE LEVEL MONITORING DATA**

WASHERY: KNWN1		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
	DETECTION LIMIT	20
Aug-20	10.08.2020	43.9
Aug-20	23.8.2020	43.1
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>

COLONY(NANDAN WASHERY): KNWN2		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
	DETECTION LIMIT	20
Aug-20	10.08.2020	43.7
Aug-20	23.8.2020	42.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>

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## ENVIRONMENTAL MONITORING REPORT

# NANDAN WASHERY

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



SEPTEMBER 2020

### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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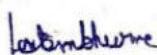
TEST REPORT NO.	RIN/TR/SEPTEMBER-20/77	DATE OF ISSUE	30.10.2020
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> : IS 5182 Part-2:2001(RA		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	NANDAN WASHERY		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SUBSTATION: <b>KNWA1</b>							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
06.09.20	07.09.20	89	59	29	13	BDL	CLEAR SKY, MODERATE BREEZE
23.09.20	24.09.20	70	51	23	15	BDL	RANIY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SAM OFFICE NANDAN I UG: <b>KNUA1</b>							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
07.09.20	08.09.20	89	60	22	14	BDL	CLEAR SKY, LIGHT BREEZE
22.09.20	23.09.20	77	53	20	13	BDL	RANIY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY GUEST HOUSE: <b>KNWA3</b>							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
06.09.20	07.09.20	77	49	31	11	BDL	CLEAR SKY, MODERATE BREEZE
23.09.20	24.09.20	72	43	24	10	BDL	RANIY, CALM
NAAQS, 2009		-	100	60	80	80	

NANDAN WATER FILTER PLANT: <b>KNWA4</b>							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
06.09.20	07.09.20	92	53	33	10	BDL	CLEAR SKY, MODERATE BREEZE
23.09.20	24.09.20	83	41	30	12	BDL	RANIY, CALM
NAAQS, 2009		-	100	60	80	80	



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**NOISE LEVEL MONITORING DATA**

<b>WASHERY:</b>		<b>KNWN1</b>	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
Sep-20	07.09.2020	65.7	61.1
Sep-20	22.09.2020	64.6	62.1
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY(NANDAN WASHERY):</b>		<b>KNWN2</b>	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
Sep-20	07.09.2020	50.7	41.6
Sep-20	22.09.2020	51.6	42.7
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

# NANDAN WASHERY

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



OCTOBER 2020


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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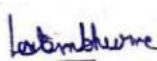
TEST REPORT NO.	RIN/TR/OCTOBER-20/77	DATE OF ISSUE	30.11.2020
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	NANDAN WASHERY		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SUBSTATION: <b>KNWA1</b>							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
07.10.20	08.10.20	79	60	30	16	14	CLEAR SKY, LIGHT BREEZE
21.10.20	22.10.20	199	147	50	11	BDL	CALM/CLEAR SKY
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SAM OFFICE NANDAN I UG: <b>KNUA1</b>							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
07.10.20	08.10.20	75	44	21	10	BDL	CLEAR SKY, LIGHT BREEZE
21.10.20	22.10.20	210	165	42	12	BDL	CALM/CLEAR SKY
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY GUEST HOUSE: <b>KNWA3</b>							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
07.10.20	08.10.20	75	47	24	11	BDL	CLEAR SKY, LIGHT BREEZE
21.10.20	22.10.20	106	78	25	10	BDL	CALM/CLEAR SKY
NAAQS, 2009		-	100	60	80	80	

NANDAN WATER FILTER PLANT: <b>KNWA4</b>							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
07.10.20	08.10.20	72	44	23	10	BDL	CLEAR SKY, LIGHT BREEZE
21.10.20	22.10.20	110	62	23	10	BDL	CALM/CLEAR SKY
NAAQS, 2009		-	100	60	80	80	

  
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**NOISE LEVEL MONITORING DATA**

<b>WASHERY: KNWN1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
Oct-20	09.10.20	65.7	61.1
Oct-20	21.10.20	66.5	62.3
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY(NANDAN WASHERY): KNWN2</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
Oct-20	09.10.20	50.7	41.6
Oct-20	21.10.20	51.4	42.3
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

### NANDAN WASHERY

KANHAN AREA



WESTERN COALFIELDS LTD.

JOB NO. 4634420035



NOVEMBER 2020

#### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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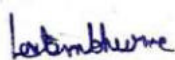
TEST REPORT NO.	RIN/TR/NOV-20/77	DATE OF ISSUE	31.12.2020
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> : IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	NANDAN WASHERY		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SUBSTATION: KNWA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
07.11.20	08.11.20	223	154	62	14	12	Cloudy/Calm
22.11.20	23.11.20	241	173	69	12	BDL	Clear/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SAM OFFICE NANDAN I UG: KNUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
07.11.20	08.11.20	212	170	67	11	BDL	Cloudy/Calm
22.11.20	23.11.20	234	181	55	17	12	Clear/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY GUEST HOUSE: KNWA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
07.11.20	08.11.20	121	84	42	10	BDL	Cloudy/Calm
22.11.20	23.11.20	133	73	39	12	BDL	Clear/Calm
NAAQS, 2009		-	100	60	80	80	

NANDAN WATER FILTER PLANT: KNWA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
07.11.20	08.11.20	102	69	33	10	BDL	Cloudy/Calm
22.11.20	23.11.20	113	73	41	12	BDL	Clear/Calm
NAAQS, 2009		-	100	60	80	80	



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**NOISE LEVEL MONITORING DATA**

<b>WASHERY: KNWN1</b>			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
NOV'20	06.11.20	58.2	57.1
NOV'20	22.11.20	55.2	48.1
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY(NANDAN WASHERY): KNWN2</b>			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
NOV'20	06.11.20	41.2	40.1
NOV'20	22.11.20	49.6	40.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

### NANDAN WASHERY

KANHAN AREA



WESTERN COALFIELDS LTD.

JOB NO. 4634420035



DECEMBER 2020


#### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

### CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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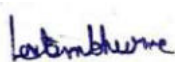
TEST REPORT NO.	RIN/TR/DEC-20/77	DATE OF ISSUE	31.01.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> : IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	NANDAN WASHERY		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SUBSTATION: KNWA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
8.12.20	9.12.20	212	153	33	15	12	Clear/Clam
22.12.20	23.12.20	192	139	28	14	10	Clear/Clam
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SAM OFFICE NANDAN I UG: KNUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
8.12.20	9.12.20	189	147	36	14	11	Clear/Calm
22.12.20	23.12.20	203	153	31	13	BDL	Clear/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY GUEST HOUSE: KNWA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
8.12.20	9.12.20	137	99	30	11	BDL	Clear/Calm
22.12.20	23.12.20	122	83	25	12	BDL	Clear/Calm
NAAQS, 2009		-	100	60	80	80	

NANDAN WATER FILTER PLANT: KNWA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
8.12.20	9.12.20	130	86	26	12	BDL	Clear/Calm
22.12.20	23.12.20	119	72	29	13	BDL	Clear/Calm
NAAQS, 2009		-	100	60	80	80	



Analysed by



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**NOISE LEVEL MONITORING DATA**

<b>WASHERY: KNWN1</b>			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'20	08.12.20	42.7	38.5
DEC'20	22.12.20	41.6	38.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY(NANDAN WASHERY): KNWN2</b>			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'20	08.12.20	50.6	45.2
DEC'20	22.12.20	50.9	40.1
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

### NANDAN WASHERY

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JANUARY 2021

### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

### CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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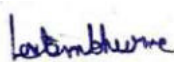
TEST REPORT NO.	RIN/TR/JAN-21/77	DATE OF ISSUE	28.02.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	NANDAN WASHERY		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SUBSTATION: KNWA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
06.01.2021	07.01.2021	265	198	42	14	11	Cloudy/Calm
20.01.2021	22.01.2021	274	187	46	12	BDL	Cloudy/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SAM OFFICE NANDAN I UG: KNUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
07.01.2021	08.01.2021	231	177	41	12	BDL	Cloudy/Calm
21.01.2021	22.01.2021	247	192	47	14	BDL	Cloudy/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY GUEST HOUSE: KNWA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
07.01.2021	08.01.2021	121	82	28	11	BDL	Cloudy/Calm
20.01.2021	21.01.2021	117	77	30	10	BDL	Cloudy/Calm
NAAQS, 2009		-	100	60	80	80	

NANDAN WATER FILTER PLANT: KNWA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
06.01.2021	07.01.2021	93	57	26	10	BDL	Cloudy/Calm
20.01.2021	22.01.2021	106	68	32	12	BDL	Cloudy/Calm
NAAQS, 2009		-	100	60	80	80	



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**NOISE LEVEL MONITORING DATA**

<b>WASHERY: KNWN1</b>			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'21	08.01.2021	47.4	44.2
JAN'21	19.01.2021	46.9	45.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY(NANDAN WASHERY): KNWN2</b>			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'21	08.01.2021	45.9	43.8
JAN'21	19.01.2021	46.7	44.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

# NANDAN WASHERY

KANHAN AREA 

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



FEBRUARY 2021

### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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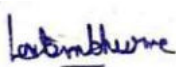
TEST REPORT NO.	RIN/TR/FEB-21/77	DATE OF ISSUE	31.03.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	NANDAN WASHERY		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SUBSTATION: KNWA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
05.02.2021	06.02.2021	304	209	39	17	14	Cloudy/Clam
20.02.2021	21.02.2021	288	193	44	15	12	Cloudy/Clam
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SAM OFFICE NANDAN I UG: KNUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
05.02.2021	06.02.2021	274	188	33	16	11	Cloudy/Calm
21.02.2021	22.02.2021	266	191	29	14	BDL	Cloudy/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY GUEST HOUSE: KNWA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
06.02.2021	07.02.2021	139	91	24	10	BDL	Cloudy/Clam
20.02.2021	21.02.2021	125	88	27	11	BDL	Cloudy/Clam
NAAQS, 2009		-	100	60	80	80	

NANDAN WATER FILTER PLANT: KNWA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
05.02.2021	06.02.2021	132	87	26	9	BDL	Cloudy/Clam
20.02.2021	21.02.2021	140	96	25	12	BDL	Cloudy/Clam
NAAQS, 2009		-	100	60	80	80	

  
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**NOISE LEVEL MONITORING DATA**

<b>WASHERY: KNWN1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
FEB'21	04.02.2021	45.9	43.8
FEB'21	19.02.2021	45.7	43.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY(NANDAN WASHERY): KNWN2</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
FEB'21	04.02.2021	45.8	43.7
FEB'21	19.02.2021	45.6	43.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

# NANDAN WASHERY

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MARCH 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

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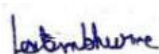
TEST REPORT NO.	RIN/TR/MAR-21/77	DATE OF ISSUE	28.04.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> : IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	NANDAN WASHERY		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SUBSTATION: KNWA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
06.03.2021	07.03.2021	255	178	34	12	BDL	Cloudy/Clam
22.03.2021	23.03.2021	269	181	29	15	11	Cloudy/Clam
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SAM OFFICE NANDAN I UG: KNUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
06.03.2021	07.03.2021	265	191	31	12	BDL	Cloudy/Calm
23.03.2021	24.03.2021	277	188	35	14	BDL	Cloudy/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY GUEST HOUSE: KNWA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
07.03.2021	08.03.2021	130	89	29	9	BDL	Cloudy/Calm
22.03.2021	23.03.2021	141	92	33	10	BDL	Cloudy/Calm
NAAQS, 2009		-	100	60	80	80	

NANDAN WATER FILTER PLANT: KNWA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
06.03.2021	07.03.2021	124	78	27	10	BDL	Cloudy/Calm
22.03.2021	23.03.2021	131	89	30	12	BDL	Cloudy/Calm
NAAQS, 2009		-	100	60	80	80	



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**NOISE LEVEL MONITORING DATA**

<b>WASHERY: KNWN1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
MAR'21	05.03.2021	46.2	43.9
MAR'21	22.03.2021	45.7	43.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY(NANDAN WASHERY): KNWN2</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
MAR'21	05.03.2021	45.9	43.7
MAR'21	22.03.2021	45.8	43.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



**ENVIRONMENTAL AUDIT STATEMENT**  
**(FORM-V)**

**Regional Workshop Kanhan Area**

**FY 2020-21**

**Prepared by-**



**WESTERN COALFIELDS LIMITED**  
**KANHAN AREA**  
**PO: DUNGARIA, CHHINDWARA (MP)-480553**

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	<b>PART-B</b>	<b>02</b>
	<b>PART-C</b>	<b>03</b>
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## **EXECUTIVE SUMMARY**

E.1.0 This Environment Statement Report has been prepared as per gazette notification no. G.S.R. 329(E) dated 13<sup>th</sup> March, 1992 laid down by Ministry of Environment and Forest. The 'Environment Audit' has been subsequently renamed to '**Environment Statement**' vide MoEF gazette notification No. G.S.R. 386(E) dated 22nd April, 1993.

E.2.0 Regional Workshop of Kanhan Area, Western Coalfields Ltd. is situated in Pench Kanhan Valley Coalfield, which lies in Chhindwara District of Madhya Pradesh State.

E.3.0 Regional Workshop is a casting and repair unit where MS roof bolts, coal tubs & under frames are casted and transformers motor repairing is being done. The consented capacity of Area workshop is as under-

CI Casting – 50 MT/year

MS Roof Bolts – 300MT/year

Non ferrous metal casting – 4 MT/yr

Transformer repairing – 10 Nos

Motor Repairing – 200 nos.

MS Coal Tubs – 600 nos./yr

Regional Workshop has been granted Consent to Operate from Madhya Pradesh Pollution Control Board, Bhopal- Consent No.AW– 50699 vide L.N 99354 Dt. 14/11/2019 ; Valid from 01/08/2019 to 31/07/2022 and is being renewed regularly.

E.4.0 Quarterly environmental monitoring has been carried out by CMPDI for air, water and noise parameters. The results of the four quarter of 2020-21 are enclosed.

E.5.0 Environmental Statement report reveals the following facts regarding environmental aspect of this project:

E.5.1 The concentration of SO<sub>2</sub>, NO<sub>x</sub> in ambient air in core zone is well within the permissible limits.

E.5.2 The noise level in the core and buffer zone is not crossing the threshold value of 85dB.

## **FORM-V**

### **ENVIRONMENT STATEMENT FOR REGIONAL WORKSHOP FINANCIAL YEAR ENDING MARCH 2021.**

#### **PART-A**

- i. **Name and address of the Mine-** Regional Workshop, WCL Kanhan Area, PO- Dungaria, District-Chhindwara, Pin-480553.
- ii. **Industry Category-** Not Applicable
- iii. **Production Capacity-** Not Applicable
- iv. **Date of last Environmental Statement submitted-** September 2020.

#### **PART - B**

### **WATER AND RAW MATERIAL CONSUMPTION**

**Table-A Water Consumption on Usage Pattern**

<b>Sno.</b>	<b>Water Consumption Category</b>	<b>Quantity/usage (in KL/day)</b>
<b>a)</b>	<b>Industrial</b>	
i.	Dust Suppression/recycling for roof support	Nil
ii.	Fir Fighting	Nil
iii.	Workshop and others	01 KL/day
iv.	Green Belt/Plantation	Nil
v.	CHP Beneficiation	Nil
<b>b)</b>	<b>Domestic</b>	
i.	Domestic use	Nil
ii.	Green Belt/Plantation	Nil
	<b>TOTAL</b>	<b>01 KL/day</b>

**Table-B Water Consumption against Production (including recycled)**

Name of Product	Water Consumption per unit of product (including recycled)	
	During the previous FY 2019-20	During the current FY 2020-21
Not Applicable		

**Table-C Raw Material Consumption**

Name of raw material	Name of product	Consumption of raw material per unit of product	
		During the previous FY 2019-20	During the current FY 2020-21
Not Applicable			

**PART-C**

**Pollution discharged to Environment/unit of output (Parameters specified in the Consent issued)**

Sno.	Pollutants	Quantity of Pollution generated	Percentage variation from prescribed standards with reasons
a)	Water	Monitoring Reports attached for the year 2020-21.	Value of parameters are well within the permissible limits.
b)	Air		
c)	Noise		

**PART-D**

**HAZARDOUS WASTES**

Sno.	Hazardous Waste	Total Quantity	
		During the previous FY 2019-20	During the current FY 2020-21
a)	From Process	Not Applicable	
b)	From Pollution Control Facilities		

**PART-E**  
**SOLID WASTES**

Sno.	Waste Generation	Total Quantity	
		During the previous FY 2019-20	During the current FY 2020-21
a)	From Process	Not Applicable.	
b)	From Pollution Control Facilities		
c)	Quantity recycled or dumped within quarry void		
d)	Sold		
e)	Disposed (as external dumps)		

**(It is a non-mining project)**

**PART-F**

**Please Specify the Characteristics (In Terms of Concern And Quantum) of Hazardous as well as Solid Wastes and indicate the Disposal Practice adopted for both these categories of wastes.**

It is a repair workshop and no Hazardous wastes is generated due to any activity carried out in workshop.

**PART-G**

**Impact of Pollution Control Measures on Conservation of Natural Resources and subsequently on Cost of Production.**

The following pollution control measures have been implemented at regional Workshop, Kanhan Area.

**1.0 AIR POLLUTION CONTROL MEASURES**

- Till date 400 no. of Plants have been planted within the premises.
- 100 nos of Plants distribution program has been carried out in August 2021 under Vriksharopan Abhiyan 2021.
- 200 nos of plants have been planted in July 2020 within the premises under vriksharopan abhiyan 2020.

## **2.0 WATER POLLUTION CONTROL MEASURES**

One RCC sedimentation tank has been provided.

## **3.0. NOISE POLLUTION CONTROL MEASURES**

Development of green belt, ear plugs & helmets are issued to the workers.

### **PART-H**

#### **Additional Investment Proposal for Environmental Protection including abatement of Pollution.**

The project has incurred an expenditure on environmental management, details of which are as under:

<b>Sr. No.</b>	<b>Particulars</b>	<b>Amount</b>
1.	Consent Fees paid upto 31/07/2022& HW Authorization upto 28/11/2023	1.40 lakhs already paid in FY 2019-20.

### **PART-I**

#### **Any other Particulars in respect of Environmental Protection and abatement of Pollution**

The regular monitoring of the ambient air and water quality is being done in and around core zone and the quarterly monitoring report is submitted to the Madhya Pradesh State Pollution Control Board, Bhopal and the Ministry of Environment and Forest Regional Office, Bhopal.

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## **ENVIRONMENTAL MONITORING REPORT**

# **AREA WORKSHOP**

**KANHAN AREA**

**WESTERN COALFIELDS LTD.**

JOB NO. 4634420035



**JUNE -2020**

**Environment Laboratory**

**CMPDI**

**REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014**

**AN ISO 9001:2015 COMPANY**



## **INDEX**

<b>Sl. No.</b>	<b>PARTICULARS</b>	<b>PAGE NO.</b>
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<b>2</b>	<b>AIR QUALITY MONITORING DATA</b>	<b>4</b>
<b>4</b>	<b>NOISE LEVEL DATA</b>	<b>5</b>

## **INTRODUCTION**

Area Workshop is located in Chhindwara district of Madhya Pradesh state. The project is administered by Kanhan Area of Western Coalfields Limite. The climate of the area is tropical Transportation roads, agricultural and local activities vehicular traffic etc also contributes to the pollution.

### **Sampling Location:**

#### **Ambient Air Quality Monitoring locations:**

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	AREA WORKSHOP :	KAWA1

#### **Noise Level Monitoring location :**

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	WORKSHOP PREMISES:	KAWN1

### **Frequency of Monitoring:**

**AIR:** Frequency of monitoring is as per the Env. (Protection) Amendment Rules published vide Gazette dt. 25.9.2000.

**WATER:** Water quality is monitored on fortnightly basis

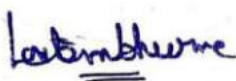
**NOISE:** Noise level is monitored on fortnightly basis.

## Test Report

### Air quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/A80	DATE OF ISSUE	31-07-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	AREA WORKSHOP	SAMPLING PLAN : LQR 47	

AREA WORKSHOP : KAWA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
12-06-20	84	77	32	16	10
27-06-20	69	48	26	14	<10
TLV	600	300	60	120	120



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU  
AUTHORIZED SIGNATORY

- |   |  |
|---|--|
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## NOISE LEVEL DATA

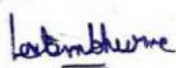
NAME OF AREA: KANHAN AREA                      YEAR: 2020  
NAME OF PROJECT: AREA WORKSHOP              MONTH: JUNE

WORKSHOP PREMISES: KAWN1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	11-06-20	51.9
JUNE 2020	25-06-20	56.3
TLV		75

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
---	--------------------	--

TEST REPORT NO.	RIN/TR/JULY-20/70	DATE OF ISSUE	31.08.2020
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	AREA WORKSHOP		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

AREA WORKSHOP: KAWA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
17-Jul-20	18-Jul-20	87	55	23	14	<10	CLOUDY SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	



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**NOISE LEVEL MONITORING DATA**

W/S PREMISES		KAWN1
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
	DETECTION LIMIT	DAY TIME
JULY.2020	15-Jul-20	43.9
JULY.2020	17-Jul-20	44.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>

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## ENVIRONMENTAL MONITORING REPORT

### KANHAN AREA

AREA WORKSHOP

WESTERN COALFIELDS LTD.

JOB NO. 4634420035




AUGUST 2020

Environment Laboratory

**CMPDI**

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TEST REPORT NO.	RIN/TR/AUGUST-20/70	DATE OF ISSUE	30.09.2020
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	AREA WORKSHOP		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

AREA WORKSHOP: KAWA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
13.08.2020	14.08.2020	78	49	30	15	BDL	Cloudy, Calm
26.08.2020	27.08.2020	70	41	20	13	BDL	Rainy, Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	



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**NOISE LEVEL MONITORING DATA**

W/S PREMISES:		KAWN1
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
	DETECTION LIMIT	20
Aug-20	12.08.2020	43.7
Aug-20	27.08.2020	44.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75

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## ENVIRONMENTAL MONITORING REPORT

### AREA WORKSHOP

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



SEPTEMBER 2020

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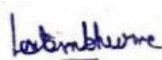
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/SEPTEMBER-20/70	DATE OF ISSUE	30.10.2020
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	AREA WORKSHOP		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

AREA WORKSHOP: KAWA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
10.09.20	11.09.20	88	52	22	12	BDL	CLEAR LIGHT BREEZE
19.09.20	20.09.20	80	44	20	14	BDL	CLOUDY LIGHT BREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	



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**NOISE LEVEL MONITORING DATA**

W/S PRIMISES:		KAWN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
SEPT'2020	07.09.2020	62.5	56.8
SEPT'2020	22.09.2020	60.2	54.9
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

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## ENVIRONMENTAL MONITORING REPORT

### AREA WORKSHOP

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



OCTOBER 2020


#### Environment Laboratory

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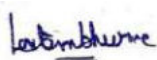
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TEST REPORT NO.	RIN/TR/OCTOBER-20/70	DATE OF ISSUE	30.11.2020
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	AREA WORKSHOP		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

AREA WORKSHOP: KAWA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
04.10.20	05.10.20	75	52	30	13	BDL	CLEAR SKY, LIGHT BREEZE
18.10.20	19.10.20	192	165	57	12	BDL	CALM/CLEAR SKY
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	



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**NOISE LEVEL MONITORING DATA**

W/S PRIMISES:		KAWN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
Oct-20	09.10.20	62.5	56.8
Oct-20	21.10.20	61.6	55.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

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## ENVIRONMENTAL MONITORING REPORT

### AREA WORKSHOP

KANHAN AREA

**WESTERN COALFIELDS LTD.**

JOB NO. 4634420035



NOVEMBER 2020

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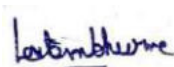
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/NOV-20/70	DATE OF ISSUE	31.12.2020
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	AREA WORKSHOP		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

AREA WORKSHOP: KAWA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
04.11.20	05.11.20	207	171	49	13	BDL	Cloudy/ Calm
19.11.20	20.11.20	191	159	38	10	BDL	Cloudy/ Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	



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**NOISE LEVEL MONITORING DATA**

W/S PRIMISES:		KAWN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
NOV'20	06.11.20	51.9	47.2
NOV'20	22.11.20	60.1	50.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

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## ENVIRONMENTAL MONITORING REPORT

### AREA WORKSHOP

KANHAN AREA

**WESTERN COALFIELDS LTD.**

JOB NO. 4634420035



DECEMBER 2020


### Environment Laboratory

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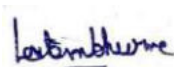
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---	--------------------	--

TEST REPORT NO.	RIN/TR/DEC-20/70	DATE OF ISSUE	31.01.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	AREA WORKSHOP		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

AREA WORKSHOP: KAWA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
5.12.20	6.12.20	143	101	36	13	BDL	Clear Sky / Clam
19.12.20	20.12.20	157	89	28	12	BDL	Clear Sky / Clam
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	



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**NOISE LEVEL MONITORING DATA**

W/S PRIMISES:		KAWN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'20	8.12.20	60.1	50.2
DEC'20	22.12.20	56.1	50.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

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## ENVIRONMENTAL MONITORING REPORT

### AREA WORKSHOP

KANHAN AREA

**WESTERN COALFIELDS LTD.**

JOB NO. 4634420035



JANUARY 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

### CMPDI

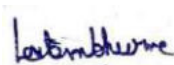
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-21/70	DATE OF ISSUE	28.02.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	AREA WORKSHOP		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

AREA WORKSHOP: KAWA1							
DATE(dd:mm:yy) ) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
04.10.2021	05.01.2021	227	166	36	12	BDL	Cloudy/calm
17.01.2021	18.01.2021	241	172	31	11	BDL	Cloudy/calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	



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**NOISE LEVEL MONITORING DATA**

W/S PRIMISES:		KAWN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'21	08.01.2021	47.7	44.4
JAN'21	19.01.2021	46.2	43.9
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70



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## ENVIRONMENTAL MONITORING REPORT

### AREA WORKSHOP

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



FEBRUARY 2021


#### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

### CMPDI

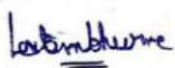
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/FEB-21/70	DATE OF ISSUE	31.03.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	AREA WORKSHOP		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
02.02.2021	03.02.2021	276	187	37	15	BDL	Cloudy/Calm
17.02.2021	18.02.2021	291	199	34	14	BDL	Cloudy/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	



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**NOISE LEVEL MONITORING DATA**

W/S PRIMISES:		KAWN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
FEB'21	04.02.2021	46.2	44.4
FEB'21	19.02.2021	45.4	43.9
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

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## ENVIRONMENTAL MONITORING REPORT

### AREA WORKSHOP

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MARCH 2021

**Environment Laboratory**

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

**CMPDI**

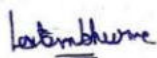
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/MAR-21/70	DATE OF ISSUE	28.04.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	AREA WORKSHOP		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

AREA WORKSHOP: KAWA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
03.03.2021	04.03.2021	277	187	38	12	BDL	Cloudy/Calm
19.03.2021	20.03.2021	264	195	41	14	11	Cloudy/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	



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**NOISE LEVEL MONITORING DATA**

W/S PRIMISES:		KAWN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
MAR'21	05.03.2021	46.2	42.8
MAR'21	22.03.2021	45.7	43.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

**ENVIRONMENTAL AUDIT STATEMENT**  
**(FORM-V)**

**TANDSI UG MINE**

**FY 2020-21**

**Prepared by-**



**WESTERN COALFIELDS LIMITED**  
**KANHAN AREA**  
**PO: DUNGARIA, CHHINDWARA (MP)-480553**

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<b>2.</b>	<b>FORM-V</b>	<b>02</b>
	<b>PART-A</b>	<b>02</b>
	<b>PART-B</b>	<b>02</b>
	<b>PART-C</b>	<b>03</b>
	<b>PART-D</b>	<b>04</b>
	<b>PART-E</b>	<b>04</b>
	<b>PART-F</b>	<b>04</b>
	<b>PART-G</b>	<b>05</b>
	<b>PART-H</b>	<b>06</b>
	<b>PART-I</b>	<b>06</b>
<b>3.</b>	<b>Quarterly Monitoring Reports</b>	<b>07</b>



## **EXECUTIVE SUMMARY**

E.1.0 This Environment Statement Report has been prepared as per gazette notification no. G.S.R. 329(E) dated 13<sup>th</sup> March, 1992 laid down by Ministry of Environment and Forest. The 'Environment Audit' has been subsequently renamed to '**Environment Statement**' vide MoEF gazette notification No. G.S.R. 386(E) dated 22nd April, 1993.

E.2.0 Tandsi Underground Mine of Western Coalfields Ltd. is situated in Pench Kanhan Valley Coalfield, which lies in Chhindwara District of Madhya Pradesh State.

E.3.0 The planned production capacity of Tandsi Underground Mine is 0.90 MTY. The Ministry of Environment & Forest, Govt. of India vide No. J-11015/64/82/IA-II dt.11.12.1991 has granted Environmental Clearance to the Underground Mine. **The project produced 0.181 MT of coal during the year 2020-21.**

E.4.0 Quarterly environmental monitoring has been carried out by CMPDI for air, water and noise parameters. The results of the four quarters of 2020-21 are enclosed.

E.5.0 Environmental Statement report reveals the following facts regarding environmental aspect of this project:

E.5.1 The concentration of SO<sub>x</sub>, NO<sub>x</sub> in ambient air in core zone is well within the permissible limits.

E.5.2 The quality of mine water discharge meets the standards prescribed vide GSR 742 (E) dated 25.09.2000 with respect to all parameters.

E.5.3 No hazardous waste material is being produced either from any process or any pollution control facilities.

## **FORM-V**

### **ENVIRONMENT STATEMENT FOR COAL MINING PROJECT FINANCIAL YEAR ENDING MARCH 2021.**

#### **PART-A**

- i. **Name and address of the Mine-** Tandsi Underground Mine, WCL  
Kanhana Area, PO- Rampur, District-Chhindwara, Pin-480555.
- ii. **Industry Category-** Category A
- iii. **Production Capacity-** 0.90 MTY
- iv. **Date of last Environmental Statement submitted-** September 2020.

#### **PART - B**

### **WATER AND RAW MATERIAL CONSUMPTION**

**Table-A Water Consumption on Usage Pattern**

<b>Sno.</b>	<b>Water Consumption Category</b>	<b>Quantity/usage (in KL/day)</b>
<b>a)</b>	<b>Industrial</b>	
i.	Dust Suppression/recycling for roof support	700
ii.	Fir Fighting	10
iii.	Workshop and others	Nil
iv.	Green Belt/Plantation	20
v.	CHP Beneficiation	05
<b>b)</b>	<b>Domestic</b>	
i.	Domestic use	580
ii.	Green Belt/Plantation	45
	<b>TOTAL</b>	<b>1360 KL/day</b>

**Table-B Water Consumption against Production (including recycled)**

Name of Product	Water Consumption per unit of product (including recycled)	
	During the previous FY 2019-20	During the current FY 2020-21
COAL	2.79 KL/tonne of Coal produced.	2.74 KL/tonne of Coal produced.

**Table-C Raw Material Consumption**

Name of raw material	Name of product	Consumption of raw material per unit of product	
		During the previous FY 2019-20	During the current FY 2020-21
Explosive (Kg/ton)	Coal	0.37	0.343

**PART-C**

**Pollution discharged to Environment/unit of output (Parameters specified in the Consent issued)**

Sno.	Pollutants	Quantity of Pollution generated	Percentage variation from prescribed standards with reasons
a)	Water	Water Quality Monitoring reports attached for the year 2020-21	Values of parameters are well within the prescribed limits.
b)	Air	Air Quality Monitoring reports attached for the year 2020-21	Values of parameters are well within the prescribed limits.
c)	Noise	Noise Quality Monitoring reports attached for the year 2020-21	Values of parameters are well within the prescribed limits.

**PART-D**  
**HAZARDOUS WASTES**

Sno.	Hazardous Waste	Total Quantity	
		During the previous FY 2019-20	During the current FY 2020-21
a)	From Process	Nil	Nil
b)	From Pollution Control Facilities	Nil	Nil

**PART-E**  
**SOLID WASTES**

Sno.	Waste Generation	Total Quantity	
		During the previous FY 2019-20	During the current FY 2020-21
a)	From Process	Nil	Nil
b)	From Pollution Control Facilities	Nil	Nil
c)	Quantity recycled or dumped within quarry void	Nil	Nil
d)	Sold	Nil	Nil
e)	Disposed (as external dumps)	Nil	Nil

**Note- It is an underground mine.**

**PART-F**

**Please Specify the Characteristics (In Terms of Concern and Quantum) of Hazardous as well as Solid Wastes and indicate the Disposal Practice adopted for both these categories of wastes.**

Hazardous wastes is not being produced either from mining operation or from any pollution control facilities.

It is an Underground mine, only coal is extracted by Board and Pillar Continuous method and no solid waste material is generated during mining operation.

## **PART-G**

### **Impact of Pollution Control Measures on Conservation of Natural Resources and subsequently on Cost of Production.**

In order to carry out mining in an eco-friendly manner, following pollution control measures have been implemented.

#### **1. Air Pollution Control Measures-**

The following measures are being taken to control air pollution:

- i. Water is sprinkled on coal faces before drilling and transportation and on coal stocks.
- ii. 35 Nos. of fixed type sprinklers are provided in and around coal stockyard, weigh bridge and coal transport road.
- iii. Till date 85900 no. of Plants have been planted over an area of 34.36 Ha within the mine lease hold area.

#### **2. Water Pollution Control Measures-**

The following measures are taken to control water pollution from the mine:

- i. Water is retained in the mine sump before discharge to the nearby surface water settling tank. Water is reused for roof-bolting in UG works and dust suppression by sprinklers.
- ii. Sedimentation tank of Capacity 300 KL has been provided for settling of mine water.
- iii. Each house in the colony has been provided with a septic - tank with soak pit arrangement.
- iv. For Conservation of water, Roof Top Rainwater harvesting structure has been constructed at Sub-Area office Building and Tandsi Workshop.

#### **3. Noise Pollution Control Measures-**

Maintenance of transport vehicles, development of green belt in between industrial complex & residential area, ear plugs & helmets are issued to the workers.

## **PART-H**

### **Additional Investment Proposal for Environmental Protection including abatement of Pollution.**

The project has incurred an expenditure on environmental management, details of which are as under:

<b>Sno.</b>	<b>Particulars</b>	<b>Amount</b>
1.	Consent Fees	Rs 12.24 lakhs
2.	Water Cess	Nil
3.	Environmental Monitoring Costs	Done by CMPDIL.
4.	Air Pollution Control Measures	Nil
5.	Water Conservation Measures	Nil

### **Future Program for Environmental Management Measures-**

- i. Renewal of CTO of Tandsi UG for two years.
- ii. Repair and Maintenance of fixed sprinklers at Tandsi UG.

## **PART-I**

### **Any other Particulars in respect of Environmental Protection and abatement of Pollution**

The regular monitoring of the ambient air and water quality is being done in and around core zone and the quarterly monitoring report is submitted to the Madhya Pradesh State Pollution Control Board, Bhopal and the Ministry of Environment and Forest Regional Office, Bhopal.

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## ENVIRONMENTAL MONITORING REPORT

# TANDSI UG

KANHAN AREA

**WESTERN COALFIELDS LTD.**

JOB NO. 4634420035



**MAY-2020**

**Environment Laboratory**

## CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

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3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6



## **INTRODUCTION**

Tandsi UG is located in Chhindwara district of Madhya Pradesh state. The project is administered by Kanhan Area of Western Coalfields Limited. The climate of the area is tropical. Transportation roads, agricultural and local activities, vehicular traffic etc also contributes to the pollution

### **Sampling Location:**

#### **Ambient Air Quality Monitoring locations:**

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	WORKSHOP :	KTUA1
2	LAMP ROOM:	KTUA2
3	COLONY-NEAR HEALTH CENTRE:	KTUA3
4	JET HOSTEL:	KTUA4

#### **Water Quality Monitoring location:**

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE DISCHARGE:	KTUW1

#### **Noise Level Monitoring location :**

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE:	KTUN1
2	COLONY:	KTUN2

#### **Frequency of Monitoring:**

**AIR:** Frequency of monitoring is as per the Env. (Protection) Amendment Rules published vide Gazette dt. 25.9.2000.

**WATER:** Water quality is monitored on fortnightly basis

**NOISE:** Noise level is monitored on fortnightly basis.

## Test Report

### Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A79	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM <sub>10</sub> : IS-5182 Part 23:2006(RA 2017), PM <sub>2.5</sub> : USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>x</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	TANDSI UG	SAMPLING PLAN : LQR 47	

WORKSHOP : KTUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
14.05.2020	88	61	22	17	11
23.05.2020	92	55	27	15	12
<b>TLV</b>	<b>600</b>	<b>300</b>	<b>60</b>	<b>120</b>	<b>120</b>

LAMP ROOM: KTUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
14.05.2020	70	48	25	10	<10
23.05.2020	60	40	27	12	<10
<b>TLV</b>	<b>600</b>	<b>300</b>	<b>60</b>	<b>120</b>	<b>120</b>

COLONY-NEAR HEALTH CENTRE: KTUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
14.05.2020	100	59	24	15	<10
28.05.2020	81	49	26	17	<10
<b>TLV</b>	<b>200</b>	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>

JET HOSTEL: KTUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
14.05.2020	92	50	25	15	<10
23.05.2020	102	66	23	16	12
<b>TLV</b>	<b>200</b>	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU  
AUTHORIZED SIGNATORY

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## Test Report

### Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W79	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	TANDSI UG	SAMPLING PLAN : LQR 47	

MINE DISCHARGE: KTUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
14.05.2020	7.2	22	28	<2
22.05.2020	7.3	26	32	<2
TLV	5.5 - 9.0	100	250	10



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU  
AUTHORIZED SIGNATORY

- |   |  |
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## NOISE LEVEL DATA

NAME OF AREA: KANHAN AREA  
NAME OF PROJECT: TANDSI UG

YEAR: 2020  
MONTH: MAY

FAN HOUSE: KTUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	13.05.2020	69.1	67.6
MAY-2020	28.05.2020	70.1	68.6
TLV		75	70

COLONY: KTUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	13.05.2020	45.2	42.5
MAY-2020	28.05.2020	45.9	43.8
TLV		55	45

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## ENVIRONMENTAL MONITORING REPORT

# TANDSI UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JUNE-2020

Environment Laboratory

### CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

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## **INTRODUCTION**

Tandsi UG is located in Chhindwara district of Madhya Pradesh state. The project is administered by Kanhan Area of Western Coalfields Limited. The climate of the area is tropical. Transportation roads, agricultural and local activities, vehicular traffic etc also contributes to the pollution

### **Sampling Location:**

#### **Ambient Air Quality Monitoring locations:**

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	WORKSHOP :	KTUA1
2	LAMP ROOM:	KTUA2
3	COLONY-NEAR HEALTH CENTRE:	KTUA3
4	JET HOSTEL:	KTUA4

#### **Water Quality Monitoring location:**

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE DISCHARGE:	KTUW1

#### **Noise Level Monitoring location :**

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE:	KTUN1
2	COLONY:	KTUN2

#### **Frequency of Monitoring:**

**AIR:** Frequency of monitoring is as per the Env. (Protection) Amendment Rules published vide Gazette dt. 25.9.2000.

**WATER:** Water quality is monitored on fortnightly basis

**NOISE:** Noise level is monitored on fortnightly basis.

## Test Report

### Air quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/A79	DATE OF ISSUE	31-07-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	TANDSI UG	SAMPLING PLAN : LQR 47	

WORKSHOP : KTUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
13-06-20	104	69	27	15	11
20-06-20	96	52	22	13	<10
TLV	600	300	60	120	120

LAMP ROOM: KTUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
13-06-20	72	49	19	9	<10
20-06-20	70	42	27	12	<10
TLV	600	300	60	120	120

COLONY-NEAR HEALTH CENTRE: KTUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
13-06-20	92	44	21	16	<10
20-06-20	88	54	23	17	12
TLV	200	100	60	80	80

JET HOSTEL: KTUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>
DETECTION LIMIT	5	5	2	6	10
13-06-20	93	55	29	17	10
20-06-20	82	59	31	18	11
TLV	200	100	60	80	80



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU  
AUTHORIZED SIGNATORY

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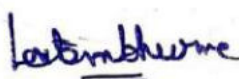


## Test Report

### Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/W79	DATE OF ISSUE	31-07-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	TANDSI UG	SAMPLING PLAN : LQR 47	

MINE DISCHARGE: KTUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
12-06-20	7.65	22	36	<2
19-06-20	7.70	20	32	<2
TLV	5.5 - 9.0	100	250	10



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## NOISE LEVEL DATA

**NAME OF AREA: KANHAN AREA**  
**NAME OF PROJECT: TANDSI UG**

**YEAR: 2020**  
**MONTH: JUNE**

FAN HOUSE: KTUN1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	12-06-20	69.7
JUNE 2020	19-06-20	69.9
<b>TLV</b>		<b>75</b>

COLONY: KTUN2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	19-06-20	45.1
JUNE 2020	19-06-20	45.3
<b>TLV</b>		<b>55</b>

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.		RIN/TR/JULY-20/78		DATE OF ISSUE		31.08.2020	
NAME OF CUSTOMER		GM(ENV.), WCL(HQ), NAGPUR					
CUSTOMER LETTER REFERENCE NO.		WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20					
TEST REQUIRED		SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)					
NAME OF AREA		KANHAN		SAMPLING PLAN : LQR 47			
NAME OF PROJECT		TANDSI UG					
SAMPLE DESCRIPTION		Air sample					
SAMPLING METHOD : LSOP 4							

WORKSHOP: KTUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
12-Jul-20	13-Jul-20	83	56	24	14	<10	CLOUDY SKY, CALM
25-Jul-20	26-Jul-20	75	48	27	17	<10	CLOUDY SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

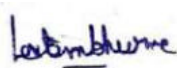
LAMP ROOM: KTUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
12-Jul-20	13-Jul-20	65	47	31	14	<10	CLOUDY SKY, CALM
25-Jul-20	26-Jul-20	75	59	33	13	<10	CLOUDY SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY NEAR HEALTH CENTER: KTUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
12-Jul-20	13-Jul-20	92	49	27	15	<10	CLOUDY SKY, CALM
25-Jul-20	26-Jul-20	88	56	24	16	11	CLOUDY SKY, CALM
NAAQS, 2009		-	100	60	80	80	

JET HOSTEL: KTUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
12-Jul-20	13-Jul-20	74	44	28	16	12	CLOUDY SKY, CALM
25-Jul-20	26-Jul-20	82	49	30	15	<10	CLOUDY SKY, CALM
NAAQS, 2009		-	100	60	80	80	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: KTUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
12-Jul-20	7.72	24	36	<2
25-Jul-20	7.83	22	32	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



Analysed by



 Deepanshu sahu  
 Authorised Signatory

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**NOISE LEVEL MONITORING DATA**

FAN HOUSE: KTUN1		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
	DETECTION LIMIT	20
JULY.2020	12-Jul-20	69.6
JULY.2020	25-Jul-20	70.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>

COLONY(TANDSI): KTUN2		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
	DETECTION LIMIT	20
JULY.2020	12-Jul-20	44.7
JULY.2020	25-Jul-20	44.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>

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## ENVIRONMENTAL MONITORING REPORT

### KANHAN AREA

TANDSI UG

**WESTERN COALFIELDS LTD.**

JOB NO. 4634420035




AUGUST 2020

Environment Laboratory

**CMPDI**

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/AUGUST-20/78	DATE OF ISSUE	30.09.2020
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	TANDSI UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

WORKSHOP: KTUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
08.08.2020	09.08.2020	88	52	30	17	11	Cloudy Calm
22.8.2020	23.08.2020	79	48	27	14	BDL	Rainy sky, Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	


LAMP ROOM: KTUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
08.08.2020	09.08.2020	81	55	24	14	BDL	Cloudy Calm
22.8.2020	23.08.2020	76	49	29	15	12	Rainy sky, Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY NEAR HEALTH CENTER: KTUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
08.08.2020	09.08.2020	72	47	22	14	BDL	Cloudy Calm
22.08.2020	23.08.2020	82	50	27	14	BDL	Rainy sky, Calm
NAAQS, 2009		-	100	60	80	80	

JET HOSTEL: KTUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
08/08/20	09/08/20	79	52	26	15	BDL	Cloudy Calm
23/08/2020	24/08/2020	71	47	22	13	BDL	Rainy sky, Calm
NAAQS, 2009		-	100	60	80	80	



Analysed by


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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: KTUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
08.08.2020	7.53	24	36	BDL
22.08.2020	7.73	20	32	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

FAN HOUSE: KTUN1		
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)
	COLLECTION	DAY TIME
	DETECTION LIMIT	20
Aug-20	8.8.2020	69.9
Aug-20	23.8.2020	68.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>

COLONY(TANDSI): KTUN2		
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)
	COLLECTION	DAY TIME
	DETECTION LIMIT	20
Aug-20	8.8.2020	44.4
Aug-20	27.8.2020	44.7
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>

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## ENVIRONMENTAL MONITORING REPORT

### TANDSI UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



SEPTEMBER 2020


#### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

#### CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.		RIN/TR/SEPTEMBER-20/78		DATE OF ISSUE		30.10.2020	
NAME OF CUSTOMER		GM(ENV.), WCL(HQ), NAGPUR					
CUSTOMER LETTER REFERENCE NO.		WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20					
TEST REQUIRED		SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance					
NAME OF AREA		KANHAN			SAMPLING PLAN : LQR 47		
NAME OF PROJECT		TANDSI UG					
SAMPLE DESCRIPTION		Air sample					
SAMPLING METHOD : LSOP 4							

WORKSHOP: KTUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
05.09.20	06.09.20	89	55	24	13	BDL	CLEAR SKY, LIGHT BREEZE
24.09.20	25.09.20	74	47	21	16	13	RAINY CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

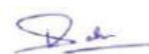
LAMP ROOM: KTUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
05.09.20	06.09.20	83	55	34	16	11	CLEAR SKY, LIGHT BREEZE
24.09.20	25.09.20	72	42	29	17	14	RAINY CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY NEAR HEALTH CENTER: KTUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
05.09.20	06.09.20	96	62	33	15	11	CLEAR SKY, LIGHT BREEZE
24.09.20	25.09.20	82	55	37	14	BDL	RAINY CALM
NAAQS, 2009		-	100	60	80	80	

JET HOSTEL: KTUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
05.09.20	06.09.20	88	52	27	12	BDL	CLEAR SKY, LIGHT BREEZE
24.09.20	25.09.20	73	45	24	14	BDL	RAINY CALM
NAAQS, 2009		-	100	60	80	80	



Analysed by


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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: KTUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
06.09.2020	7.95	48	52	BDL
24.09.2020	7.79	28	32	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

FAN HOUSE:		KTUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
Sep-20	07.09.2020	69.4	67.1
Sep-20	22.09.2020	67.3	66.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY(TANDSI):		KTUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
Sep-20	07.09.2020	50.2	48.2
Sep-20	22.09.2020	51.1	49.3
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

### TANDSI UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



OCTOBER 2020


#### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/OCTOBER-20/78	DATE OF ISSUE	30.11.2020
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	TANDSI UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

WORKSHOP: KTUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08.10.2020	09.10.2020	73	53	29	15	12	CLEAR SKY, LIGHT BREEZE
22.10.2020	23.10.2020	209	159	62	15	BDL	CLEAR SKY, LIGHT BREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

LAMP ROOM: KTUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08.10.2020	09.10.2020	88	59	31	16	11	CLEAR SKY, LIGHT BREEZE
22.10.2020	23.10.2020	121	88	31	11	BDL	CLEAR SKY, LIGHT BREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY NEAR HEALTH CENTER: KTUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08.10.2020	09.10.2020	68	42	21	11	BDL	CLEAR SKY, LIGHT BREEZE
22.10.2020	23.10.2020	109	67	26	10	BDL	CLEAR SKY, LIGHT BREEZE
NAAQS, 2009		-	100	60	80	80	

JET HOSTEL: KTUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08.10.2020	09.10.2020	69	49	23	12	BDL	CLEAR SKY, LIGHT BREEZE
22.10.2020	23.10.2020	102	68	22	10	BDL	CLEAR SKY, LIGHT BREEZE
NAAQS, 2009		-	100	60	80	80	



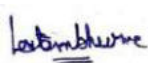
Analysed by


Deepanshu sahu  
Authorised Signatory

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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: KTUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
09.10.2020	7.98	46	44	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



Analysed by


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**NOISE LEVEL MONITORING DATA**

FAN HOUSE:		KTUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
Oct-20	09.10.20	68.4	62.1
Oct-20	21.10.20	67.9	61.8
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY(TANDSI):		KTUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
Oct-20	09.10.20	51.2	48.2
Oct-20	21.10.20	50.4	47.8
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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## ENVIRONMENTAL MONITORING REPORT

### TANDSI UG

KANHAN AREA

**WESTERN COALFIELDS LTD.**

JOB NO. 4634420035



NOVEMBER 2020

### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

### CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/NOV-20/78	DATE OF ISSUE	31.12.2020
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	TANDSI UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

WORKSHOP: KTUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08.11.20	09.11.20	229	167	70	12	BDL	Cloudy/Calm
23.11.20	24.11.20	243	186	79	16	11	Clear/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

LAMP ROOM: KTUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08.11.20	09.11.20	159	103	50	10	BDL	Cloudy/Calm
23.11.20	24.11.20	179	123	63	13	BDL	Clear/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY NEAR HEALTH CENTER: KTUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08.11.20	09.11.20	127	73	39	8	BDL	Cloudy/Calm
23.11.20	24.11.20	139	86	46	10	BDL	Clear/Calm
NAAQS, 2009		-	100	60	80	80	

JET HOSTEL: KTUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08.11.20	09.11.20	129	78	39	11	BDL	Cloudy/Calm
23.11.20	24.11.20	139	67	33	12	BDL	Clear/Calm
NAAQS, 2009		-	100	60	80	80	



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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: KTUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
08.11.20	8.08	30	44	BDL
23.11.20	7.83	26	36	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

FAN HOUSE:		KTUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
NOV'20	06.11.20	61.8	51.7
NOV'20	23.11.20	62.5	52.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY(TANDSI):		KTUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
NOV'20	06.11.20	39.2	36.2
NOV'20	23.11.20	50.6	41.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

### TANDSI UG

KANHAN AREA

**WESTERN COALFIELDS LTD.**

JOB NO. 4634420035



DECEMBER 2020

### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

### CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/DEC-20/78	DATE OF ISSUE	31.01.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	TANDSI UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

WORKSHOP: KTUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
9.12.20	10.12.20	152	119	32	13	BDL	Clear/Calm
23.12.20	24.12.20	190	131	26	15	BDL	Clear/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

LAMP ROOM: KTUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
9.12.20	10.12.20	192	149	36	15	11	Clear/Calm
23.12.20	24.12.20	202	163	30	13	BDL	Clear/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY NEAR HEALTH CENTER: KTUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
9.12.20	10.12.20	121	80	27	13	BDL	Clear/Calm
23.12.20	24.12.20	132	97	22	10	BDL	Clear/Calm
NAAQS, 2009		-	100	60	80	80	

JET HOSTEL: KTUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
9.12.20	10.12.20	149	102	29	14	BDL	Clear/Calm
23.12.20	24.12.20	161	97	33	12	BDL	Clear/Calm
NAAQS, 2009		-	100	60	80	80	



Analysed by


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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: KTUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
9.12.20	8.01	32	40	BDL
23.12.20	7.94	28	36	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

FAN HOUSE:		KTUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
DEC'20	09.12.20	62.7	55.3
DEC'20	23.12.20	60.3	50.8
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY(TANDSI):		KTUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
DEC'20	09.12.20	46.6	40.2
DEC'20	23.12.20	49.7	40.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

### TANDSI UG

KANHAN AREA

**WESTERN COALFIELDS LTD.**

JOB NO. 4634420035



JANUARY 2021

### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

### CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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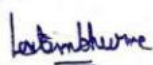
TEST REPORT NO.	RIN/TR/JAN-21/78	DATE OF ISSUE	JAN.02.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	TANDSI UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

WORKSHOP: KTUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08.01.2021	09.01.2021	235	155	33	13	BDL	Cloudy/Calm
21.02.2021	22.01.2021	264	187	36	14	11	Cloudy/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

LAMP ROOM: KTUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08.01.2021	09.01.2021	276	199	38	14	11	Cloudy/Calm
21.02.2021	22.01.2021	255	184	34	13	BDL	Cloudy/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY NEAR HEALTH CENTER: KTUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08.01.2021	09.01.2021	99	65	28	10	BDL	Cloudy/Calm
21.02.2021	22.01.2021	112	83	33	11	BDL	Cloudy/Calm
NAAQS, 2009		-	100	60	80	80	

JET HOSTEL: KTUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08.01.2021	09.01.2021	125	95	36	12	BDL	Cloudy/Calm
21.02.2021	22.01.2021	112	78	31	11	BDL	Cloudy/Calm
NAAQS, 2009		-	100	60	80	80	




Analysed by


Deepanshu sahu  
Authorised Signatory

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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: KTUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
08.01.2021	8.16	26	32	BDL
21.01.2021	8	30	36	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



Analysed by


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**NOISE LEVEL MONITORING DATA**

FAN HOUSE:		KTUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
JAN'21	08.01.2021	68.6	67.2
JAN'21	19.01.2021	69.6	68.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY(TANDSI):		KTUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
JAN'21	08.01.2021	45.2	44.4
JAN'21	19.01.2021	45.9	43.7
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

### TANDSI UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



FEVRUARY 2021

### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.		RIN/TR/FEB-21/78		DATE OF ISSUE		31.03.2021	
NAME OF CUSTOMER		GM(ENV.), WCL(HQ), NAGPUR					
CUSTOMER LETTER REFERENCE NO.		WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20					
TEST REQUIRED		SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)					
NAME OF AREA		KANHAN		SAMPLING PLAN : LQR 47			
NAME OF PROJECT		TANDSI UG					
SAMPLE DESCRIPTION		Air sample					
SAMPLING METHOD : LSOP 4							

WORKSHOP: KTUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
06.02.2021	07.02.2021	235	159	37	15	11	Cloudy/Calm
21.02.2021	22.02.2021	261	173	33	16	12	Cloudy/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	


LAMP ROOM: KTUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
06.02.2021	07.02.2021	244	164	40	15	11	Cloudy/Calm
21.02.2021	22.02.2021	269	181	45	14	BDL	Cloudy/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY NEAR HEALTH CENTER: KTUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
06.02.2021	07.02.2021	125	83	28	9	BDL	Cloudy/Calm
21.02.2021	22.02.2021	132	94	31	10	BDL	Cloudy/Calm
NAAQS, 2009		-	100	60	80	80	

JET HOSTEL: KTUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
06.02.2021	07.02.2021	135	92	24	10	BDL	Cloudy/Calm
21.02.2021	22.02.2021	127	97	29	11	BDL	Cloudy/Calm
NAAQS, 2009		-	100	60	80	80	



Analysed by


Deepanshu sahu  
Authorised Signatory

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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: KTUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
06.02.2021	8.26	28	36	BDL
22.02.2021	8.19	26	32	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

FAN HOUSE:		KTUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
FEB'21	04.02.2021	68.7	67.2
FEB'21	19.02.2021	69.7	67.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY(TANDSI):		KTUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
FEB'21	04.02.2021	45.4	43.9
FEB'21	19.02.2021	45.6	44.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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an official position in the CIL / Government

## ENVIRONMENTAL MONITORING REPORT

### TANDSI UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MARCH 2021

### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

### CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/MAR-21/78	DATE OF ISSUE	28.04.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	TANDSI UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

WORKSHOP: KTUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
07.03.2021	08.03.2021	289	198	39	14	11	Cloudy/Calm
23.03.2021	24.03.2021	274	173	43	16	11	Cloudy/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

LAMP ROOM: KTUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
07.03.2021	08.03.2021	264	179	38	13	BDL	Cloudy/Calm
23.03.2021	24.03.2021	259	166	33	15	BDL	Cloudy/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY NEAR HEALTH CENTER: KTUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
07.03.2021	08.03.2021	124	79	25	9	BDL	Cloudy/Calm
23.03.2021	24.03.2021	139	84	31	10	BDL	Cloudy/Calm
NAAQS, 2009		-	100	60	80	80	

JET HOSTEL: KTUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
07.03.2021	08.03.2021	126	88	26	9	BDL	Cloudy/Calm
23.03.2021	24.03.2021	133	79	30	12	BDL	Cloudy/Calm
NAAQS, 2009		-	100	60	80	80	



Analysed by


Deepanshu sahu  
Authorised Signatory

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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: KTUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
07.03.2021	7.93	24	32	BDL
21.03.2021	7.9	26	36	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



Analysed by


Deepanshu sahu  
Authorised Signatory

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**NOISE LEVEL MONITORING DATA**

FAN HOUSE:		KTUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
MAR'21	05.03.2021	69.7	68.4
MAR'21	22.03.2021	69.8	68.1
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY(TANDSI):		KTUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
MAR'21	05.03.2021	45.6	43.4
MAR'21	22.03.2021	45.4	43.8
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

# **ENVIRONMENT AUDIT STATEMENT** **FORM-V**

## **BARKUHI OC MINE**

**FY 2020-21**

**Prepared by:**



**September - 2021**

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***WESTERN COALFIELDS LIMITED***

***ENVIRONMENT DEPARTMENT***

***PENCH AREA***

***PARASIA - 480441***

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## **INTRODUCTION**

### **1.1 Genesis**

Industrial pollution in our country is on increase and is creating a high-risk environment. Various legislations viz. The water (Prevention & Control of Pollution) Act, 1974, The Air (Prevention & Control of Pollution) Act, 1981 and The Environment (Protection) Act, 1986 have come into force and organization created to combat pollution. It is being realized that industry and environment should go hand – in – hand so as to achieve sustainable development. Also, over the years, awareness has brought in realization to consider environmental protection a bare necessity. Consideration of environmental factors at par with production helps in minimizing material losses and also in reduction of liabilities in the long run.

### **1.2 Need of Environmental Statement**

Environmental Audit is a technique being introduced for integrating the interest of the industry and the environment so that these could be mutually supportive. This technique is basically a part of industry's internal procedures in meeting their responsibilities towards better environment. Also, the policy statement for abatement of pollution by the Govt. of India provides for submission of environmental statement by all concerned industries, which would subsequently evolve into an environmental audit. A notification under the Environment (Protection) Rules, 1986 has been issued on April 22, 1993, requiring industries to submit an environmental statement for the financial Year ending on March 31 in Form V to the concerned State Pollution Control Boards on or before September 30 every Year beginning 1993. The Department of Company Affairs also agreed to include this requirement as a part of the Director's Annual Report.

The submission of an environmental statement is applicable to the following.

- i) Those who require consent under the water (Prevention & Control of Pollution) Act, 1974:
- ii) Those who require consent under the Air (Prevention & Control of Pollution) Act, 1981: and

Those who require authorization under Hazardous wastes (Management & Handling) Rules, 1989.

Vide Gazette Notification No. G.S.R.329 (E) dated 13th March, 1992, the Ministry of Environment & Forests, Govt. of India have made provisions for Mandatory Environmental Statement as follows:

#### **Quote**

“Every person carrying on an industry, operation or process requiring consent under Section 25 of the Water Act, 1974 or under Section 21 of the Air Act, 1981 or both or authorization under the Hazardous Water Rules, 1989 issued under the Environmental Protection Act, 1986 shall submit an Environmental Audit Report for the financial year ending 31st March in Form – V to the concerned State Pollution Control Board on or before 30th September every year beginning 1993”.

#### **Unquote**

In order to comply with the statutory requirement as well as to maintain corporate image in the region recognizing the importance of comprehensive structural mechanism to ensure that the mining activities do not cause any effects on environment.



## **2.0 Basis of Environment Statement**

### **2.1 Water Quality**

Water is not directly used during mining for coal production except for dust suppression. It percolates into working area during mining operation. However, water is consumed for other purposes; mainly for domestic supply, industrial supply. Part “B” of the proforma contains detailed break-up of water consumption.

Raw materials used in coal mining activities are explosives and POL for machines and automobiles, steel, timber, cement, etc.

Pollution discharged into water has been calculated on the basis of water analysis and identified water pollutants. The main pollutants in mine water are suspended solids. The other sources of pollution in the effluent from various processes include oil and grease (from Workshop and CHP).

### **2.2. Air Quality**

Ambient air quality is monitored to study the level of air pollution. CHP has been indicated as fugitive source in reports and mobile sources are HEMM moving on haul road, blasting, exhaust from vehicles and HEMMs, loose materials of OB dumps and burning of coal.

### **2.3 Mining**

Mining activity produces less quantity of any hazardous waste; and it is shown in Part “D” of Form – V. Solid waste produced from mining activities is overburden (OB) material. **Recycling process of this material is normally done by suitably backfilling the same in the extracted portion of the quarry.**

### **2.4 Pollution Control Methods**

The pollution abatement measures for the sake of Environmental Statement are:

- Dust suppression by water spray;
- Afforestation;
- OB Dump Reclamation
- Water spraying to prevent burning of coal.

Items identical under Part “H” of the proforma are those items which the Consultants have felt necessary which is also true for Part “I” in order to help Western Coalfields Limited to organize their abatement efforts for performing mining activities without adversely affecting the environment.

**FORM – V****ENVIRONMENT STATEMENT FOR COAL MINING PROJECT**  
**FINANCIAL YEAR ENDING MARCH 2021.****PART – A**

<b>Sr. No.</b>	<b>Particulars</b>	
1.	Name and address of the Mine	Barkui OC Mine Village: Eklehara Tehsil: Parasia Distt: Chhindwara State: Madhya Pradesh
2.	Industry category	Category “A”
3.	Production capacity	0.75 MTY
4.	Year of Establishment	2006
5.	Date of last Environmental Statement Report submitted	25 <sup>th</sup> September, 2020

**PART – B****WATER & RAW MATERIALS CONSUMPTION****Table – A Water consumption on Usage Pattern**

<b>Sr.no.</b>	<b>Water Consumption Category</b>	<b>Quantity/usage (in KL/day)</b>
<b>a)</b>	<b>Industrial</b>	
i.	Dust Suppression/recycling for roof support	50
ii.	Fir Fighting	Nil
iii.	Workshop and others	Nil
iv.	Green Belt/Plantation	Nil
v.	CHP Beneficiation	Nil
<b>b)</b>	<b>Domestic</b>	
i.	Domestic use	05
ii.	Green Belt/Plantation	Nil
	<b>TOTAL</b>	<b>55</b>

**Table – B Water Consumption Against Production (Including Recycled)**

<b>Name of Product</b>	<b>Water Consumption per unit of product (including recycled)</b>	
	<b>During the previous FY 2019-20</b>	<b>During the current FY 2020-21</b>
COAL	Nil	97.09 liters/ton

**Table – C Raw Material Consumption**

Name of raw material	Name of product	Consumption of raw material per unit of product	
		During the previous FY 2019-20	During the current FY 2020-21
Explosive (Kg)	Coal	Nil	1.32 Kg/Ton

**PART - C**

**Pollution discharged to Environment/unit of output (Parameters specified in the Consent issued)**

1.	Pollutants	Quantity of Pollution Generated	Percentage variation from prescribed standards with reasons
(A)	Water	Water Quality Monitoring reports attached for the year 2020-21	Values of all parameters are within permissible limits.
(B)	Air	Air Quality Monitoring reports attached for the year 2020-21	Values of all parameters are within permissible limits.
(C)	Noise	Noise Quality Monitoring reports attached for the year 2020-21	Values of all parameters are within permissible limits.

**PART - D**

**HAZARDOUS WASTE**

(As specified under Hazardous Waste/ Management & Handling Rules, 2003)

1.	Hazardous Waste	Total Quantity (kg)	
		During the previous FY 2019-20	During the current FY 2020-21
(a)	From Process	Nil	Nil
(b)	From Pollution Control Facilities	Nil	Nil

**PART - E**

**SOLID WASTES**

Sno.	Waste Generation	Total Quantity	
		During the previous FY 2019-20	During the current FY 2020-21
a)	From Process	Nil	1.080761 Mm3
b)	From Pollution Control Facilities	Nil	Nil
c)	Quantity recycled or dumped within quarry void	Nil	1.080761 Mm3
d)	Sold	Nil	Nil
e)	Disposed (as external dumps)	Nil	Nil

**Mm<sup>3</sup> = Million Cubic Metre**

## **PART – F**

**please specify characteristics (in terms of concentration & quantum) of hazard as well as solid wastes and indicate disposal practice adopted for both these categories of water.**

The hazardous waste is disposed through:

- Solid wastes in the mine are in the form of overburden material which comprises of sandstone, conglomerates, sandy and clayey shales.

## **PART - G**

**Impacts of pollution control measures on conservation of natural resources and consequently on coal production.**

The brief summary of Pollution Control Measures taken for this mine is as under:

**G.0** In order to carry out mining operations in an environmentally, friendly and planned manner, the sources of pollution were identified and measures were suggested to keep them within permissible limits.

### **G.1 SOURCES OF AIR POLLUTION**

The likely sources of air pollution are as under:

- Drilling operation;
- Blasting operation;
- Loading and transportation of Coal/OB;
- Wind Erosion of Coal Stock/OB Dumps;
- Haul Road/Coal Transportation Roads;
- Exhaust from vehicular movement.

#### **G.1.1 Measures for Control of Air Pollution**

For control of air pollution, measures suggested are:

- Tree plantation along the periphery of the quarry, CHP, around other service buildings along the sides of permanent haul road and open land;
- Regular cleaning of transportation road.

#### **G.1.2 Implementation Status**

- Water is sprinkled by mobile sprinkler (maintained by HOE contactor)

### **G.2 WATER POLLUTION**

#### **G.2.1 Sources of Water Pollution**

The identified sources of water pollution are as under:

TDS and TSS due to mining operation present in the mine water (mainly coal particles);

#### **G.2.2 Water Pollution Control Measures**

- The main pollutant responsible for water pollution is suspended solids. Sedimentation pond should be provided to take care of this pollutant.

#### **G.2.3 Implementation Status**

Settling Tank has been provided.

### **G.3 NOISE POLLUTION**

#### **G.3.1 Sources of Noise Pollution**

The sources of noise pollution are as under:

- Drilling Operation;
- Blasting Operation;
- Operation of CHP;

- Operation of Shovels and Dumpers;
- Workshop.

### **G.3.2 Noise Pollution Control Measures suggested**

The measures for reduction of noise level as envisaged in the EMP are as under:

- Selection of mining equipments so as to keep noise level below 85 dB(A);
- Provision of Ear Plugs for operators exposed for long duration of time;
- Provision of green belt around Workshop, CHP and other sensitive areas;
- Limitation of blasting operation between 12.00 Noon to 2.30 PM.

### **G.3.3 Implementation Status**

Refer to Noise level monitoring reports.

## **PART - H**

### **Additional investment proposal for environmental protection in the area:**

**H.1** The project has incurred an expenditure on the followings in connection with environmental management in the area:

<b>Sl. No.</b>	<b>Particulars</b>	<b>Amount (Rs)</b>
1.	Water Cess	-
2.	Consent Fees	-
3.	Air, Water, Noise Quality Monitoring	Done by CMPDIL
4.	Water pollution control measures	-
5.	Air pollution control measures	-

### **H.2Future Programme**

The project has incurred an expenditure on the following in connection with environmental management in the area.

<b>Sl. No.</b>	<b>Particulars</b>	<b>Amount (Rs)</b>
1.	Water Cess	-
2.	Consent Fees	-
3.	Air, Water, Noise Quality Monitoring	Done by CMPDIL
4.	Water pollution control measures	-
5.	Air pollution control measures	-

## **PART - I**

### **Miscellaneous**

**Any other particulars in respect of environmental protection & abatement of pollution.**

# **ENVIRONMENTAL STATEMENT**

## **FOR THE YEAR APRIL, 2020 – MARCH, 2021**

# **REGIONAL WORKSHOP, CHANDAMETA**

## **CHAPTER - I**

### **1.1 GENESIS**

Vide Gazette Notification No. G.S.R. 329(E) dated 13<sup>th</sup> March, 1992, the Ministry of Environment & Forests, Govt. of India have made provisions for Mandatory Environmental Statement as follows :

“Every person carrying on an industry, operation or process requiring consent under Section 25 of the Water Act, 1974 or under Section 21 of the Air Act, 1982 or both or authorisation under the Hazardous Water Rules, 1989 issued under the Environmental Protection Act, 1986 shall submit an Environmental Audit Report for the financial year ending 31<sup>st</sup> March in Form – V to the concerned State Pollution Control Board on or before 30<sup>th</sup> September every year beginning 1993”.

In compliance with the above, the work of Environmental Statement for Central Workshop, Chandameta was entrusted with the Central Mine Planning & Design Institute Limited by Western Coalfields Limited, Nagpur.

## CHAPTER - II

### SALIENT FEATURES OF THE PROJECT

1.	Name of the Project	Regional Workshop, Chandametta
2.	Location	WCL, Pench Area, Distt : Chhindwara State : Madhya Pradesh
3.	Production	Not applicable
4.	Water Consumption	3.00 kl/day
5.	Raw Material Consumption :	
(a)	Explosive	Nil
(b)	POL	Nil

**(It is a Non-mining Project)**

## **CHAPTER – III**

### **BASIS FOR ENVIRONMENTAL STATEMENT**

- 1.0 Water is not directly used during mining for coal production. It percolates into working area during mining operation. However, water is consumed for other purposes; mainly for domestic supply, industrial supply. Part “B” of the proforma contains detailed break-up of water consumption.
- 2.0 Pollution discharged into water has been calculated on the basis of water analysis and identified water pollutants. The main pollutants in mine water are suspended solids. The other sources of pollution in the effluent from various processes include oil and grease.
- 3.0 Ambient air quality is monitored to study the level of air pollution.
- 4.0 Mining activity produces less quantity of any hazardous waste; and it is shown in Part “D” of Form – V.
- 5.0 Solid waste produced in case of underground mining is very negligible.
- 6.0 The pollution abatement measures for the sake of Environmental Statement are :
  - (i) Dust suppression by water spray;
  - (ii) Afforestation;
- 7.0 Items identical under Part “H” of the proforma are those items which the Consultants have felt necessary which is also true for Part “I” in order to help Western Coalfields Limited to organise their abatement efforts for performing mining activities without adversely affecting the environment.



## CHAPTER – IV

### FORM – V

#### PART - “A”

Sl. No.	Particulars	
1.	Name and address of the Mine	<b>Regional Workshop, Chandametta</b>
(a)	Place	WCL, Pench Area
(b)	District	Chhindwara
(c)	Telephone No.	6260565108
(d)	FAX No.	-
2.	Date of last Environmental Statement Report submitted	<b>25<sup>th</sup> September, 2020</b>

#### PART - “B”

#### WATER & RAW MATERIALS CONSUMPTION

**Table – (a)**

#### Water consumption on Usage Pattern

Sl. No.	Particulars	
1.	Water Consumption (kl/day) :	
<b>(a)</b>	<b>Process – Industrial :</b>	
(i)	Dust suppression	-
(ii)	Fire fighting	-
(iii)	Workshop and others	-
(iv)	Green Belt	-
(v)	CHP Beneficiation	-
<b>(b)</b>	<b>Domestic Purpose</b>	
(i)	Domestic Use	3.00
(ii)	Green Belt in Township	
	<b>TOTAL</b>	<b>3.00 kl/day</b>

**Table – (b)**

**WATER CONSUMPTION AGAINST PRODUCTION  
(INCLUDING RECYCLED)**

<b>Name of the Product</b>	<b>Water Consumption</b> per unit of product (including recycled)	
	During the Previous Financial Year (2019-20)	During the Current Financial Year (2020-21)
COAL	N.A.	N.A.

**RAW MATERIAL CONSUMPTION**

Name of the Raw Material	Name of the Product	Consumption of Raw Material per Unit of Product	
		During the Previous Financial Year (2019-20)	During the Current Financial Year (2020-21)
Explosive	Coal	N.A.	N.A.
POL	Coal	N.A.	N.A.

**(It is a non-mining project)**

**(N. A. = Not Applicable)**

## PART - "C"

### POLLUTION GENERATED

(Parameters specified in the consent issued)

1.	Pollutants	Quantity of Pollution Generated	Percentage variation from prescribed standards with reasons
(A)	Water	Water Quality Monitoring reports attached for the year 2020-21	Values of all parameters are within permissible limits.
(B)	Air	Air Quality Monitoring reports attached for the year 2020-21	Values of all parameters are within permissible limits.
(C)	Noise	Noise Quality Monitoring reports attached for the year 2020-21	Values of all parameters are within permissible limits.

## PART - "D"

### HAZARDOUS WASTE

(As specified under Hazardous Waste/  
Management & Handling Rules, 1989)

1.	Hazardous Waste	Total Quantity (kg)	
		During the Previous Financial Year (2019-20)	During the Current Financial Year (2020-21)
(a)	From Process (Oil & Grease)	1070.00 ltr/ yr	950.00 ltr/ yr
(b)	From Pollution Control Facilities (Sludge from ETP)	N.A.	N.A.

**PART - “E”**  
**SOLID WASTES**

		Total Quantity	
		During the Previous Financial Year (2019-20)	During the Current Financial Year (2020-21)
(a)	From Process	Nil	Nil
(b)	From Pollution Control Facility	Nil	Nil
(c)	(i) Quantity recycled or re-utilised within the unit dumped on quarry void	Nil	Nil
	(ii) Sold	Nil	Nil
	(iii) Disposed (as external dumps)	Nil	Nil

**(NON-MINING PROJECT)**

## **PART - "F"**

**PLEASE SPECIFY CHARACTERISTICS (IN TERMS OF CONCENTRATION & QUANTUM) OF HAZARD AS WELL AS SOLID WASTES AND INDICATE DISPOSAL PRACTICE ADOPTED FOR BOTH THESE CATEGORIES OF WATER.**

- The hazardous waste is being disposed through :
  - (i) The sludge from ETP through land fill arrangement;
  - (ii) Oil and grease is disposed of through authorized/registered recyclers/re-refiner.
- Solid wastes generation due to the workshop activities is Nil.

## **PART - "G"**

**IMPACTS OF POLLUTION CONTROL MEASURES ON CONSERVATION OF NATURAL RESOURCES AND CONSEQUENTLY ON COAL PRODUCTION.**

The brief summary of Pollution Control Measures taken for this mine is as under :

**G.0** In order to carry out mining operations in an environmentally, friendly and planned manner, the sources of pollution were identified and measures were suggested to keep them within permissible limits.

### **G.1 SOURCES OF AIR POLLUTION**

The identified sources of air pollution are as under :

- Exhaust from vehicles/HEMM;
- SPM/Dust Generation due to HEMM movement near workshop.

#### **G.1.1 Measures for Control of Air Pollution**

For control of air pollution, measures suggested are :

- Water spraying on open space where HEMM movement is most frequent;
- Workshop boundary along the sides of the road leading to the workshop and also on open land (if available) in and around workshop area.

**G.1.2 Implementation Status**

- Water sprinkling is done on open space and also on transportation roads.

**G.2 WATER POLLUTION**

**G.2.1 Sources of Water Pollution**

- The workshop effluent coming out of the workshop as a result of washing and other related activities is the main source of water pollution.

**G.2.2 Water Pollution Control Measures**

- Although the quantity of effluent coming out of workshop is very less, the main pollutant responsible for water pollution are oil and grease and suspended solids. Sedimentation pond should be provided to take care of this pollutant;

**G.2.3 Implementation Status**

- Water supplied by PHE.

**G.3 NOISE POLLUTION**

**G.3.1 Sources of Noise Pollution**

The sources of noise pollution are as under :

- Repair and other works with varieties noises related to typical workshop activities;
- Testing of dumpers and other HEMMs.

**G.3.2 Noise Pollution Control Measures suggested**

The measures for reduction of noise level as envisaged in the EMP are as under :

- Provision of Ear Mufflers for operators exposed for long duration of time;
- Provision of green belt around workshop, CHP and other nearby sensitive areas.

### **G.3.3 Implementation Status**

- Ear Mufflers are being provided to the workers in the workshop.

### **PART - "H"**

#### **ADDITIONAL INVESTMENT PROPOSAL FOR ENVIRONMENTAL PROTECTION IN THE AREA :**

**H.1** The project has incurred an expenditure on the followings in connection with environmental management in the area :

Sl. No.	Particulars	Amount (Rs)
1.	Water Cess	nil
2.	Consent Fees	20,000
3.	Air, Water, Noise Quality Monitoring	By CMPDIL
4.	Air Pollution Control Measures	
5.	Water Pollution Control Measures	

### **H.2 Future Programme**

Sl. No.	Particulars	Amount (Rs)
1.	Water Cess	
2.	Consent Fees	
3.	Air, Water, Noise Quality Monitoring	By CMPDIL
4.	Air Pollution Control Measures	
5.	Water Pollution Control Measures	

### **PART - "I"**

#### **MISCELLANEOUS**

#### **ANY OTHER PARTICULARS IN RESPECT OF ENVIRONMENTAL PROTECTION & ABATEMENT OF POLLUTION.**

The measures are suggested for Abatement of Pollution and Environmental Protection are regular pollution control measures should be continued.

- oOo -

# **ENVIRONMENT AUDIT STATEMENT** **FORM-V**

## **MAHADEOPURI UG MINE**

**FY 2020-21**

**Prepared by:**



**September - 2021**

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***WESTERN COALFIELDS LIMITED***

***ENVIRONMENT DEPARTMENT***

***PENCH AREA***

***PARASIA - 480441***

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## **INTRODUCTION**

### **1.1 Genesis**

Industrial pollution in our country is on increase and is creating a high-risk environment. Various legislations viz. The water (Prevention & Control of Pollution) Act, 1974, The Air (Prevention & Control of Pollution) Act, 1981 and The Environment (Protection) Act, 1986 have come into force and organization created to combat pollution. It is being realized that industry and environment should go hand – in – hand so as to achieve sustainable development. Also, over the years, awareness has brought in realization to consider environmental protection a bare necessity. Consideration of environmental factors at par with production helps in minimizing material losses and also in reduction of liabilities in the long run.

### **1.2 Need Of Environmental Statement**

Environmental Audit is a technique being introduced for integrating the interest of the industry and the environment so that these could be mutually supportive. This technique is basically a part of industry's internal procedures in meeting their responsibilities towards better environment. Also, the policy statement for abatement of pollution by the Govt. of India provides for submission of environmental statement by all concerned industries, which would subsequently evolve into an environmental audit. A notification under the Environment (Protection) Rules, 1986 has been issued on April 22, 1993, requiring industries to submit an environmental statement for the financial Year ending on March 31 in Form V to the concerned State Pollution Control Boards on or before September 30 every Year beginning 1993. The Department of Company Affairs also agreed to include this requirement as a part of the Director's Annual Report.

The submission of an environmental statement is applicable to the following.

- i) Those who require consent under the water (Prevention & Control of Pollution) Act, 1974:
- ii) Those who require consent under the Air (Prevention & Control of Pollution) Act, 1981: and

Those who require authorization under Hazardous wastes (Management & Handling) Rules, 1989.

Vide Gazette Notification No. G.S.R.329 (E) dated 13th March, 1992, the Ministry of Environment & Forests, Govt. of India have made provisions for Mandatory Environmental Statement as follows:

#### **Quote**

“Every person carrying on an industry, operation or process requiring consent under Section 25 of the Water Act, 1974 or under Section 21 of the Air Act, 1981 or both or authorization under the Hazardous Water Rules, 1989 issued under the Environmental Protection Act, 1986 shall submit an Environmental Audit Report for the financial year ending 31st March in Form – V to the concerned State Pollution Control Board on or before 30th September every year beginning 1993”.

#### **Unquote**

In order to comply with the statutory requirement as well as to maintain corporate image in the region recognizing the importance of comprehensive structural mechanism to ensure that the mining activities do not cause any effects on environment.

## **2.0 Basis of Environment Statement**

### **2.1 Water Quality**

Water is not directly used during mining for coal production except for dust suppression. It percolates into working area during mining operation. However, water is consumed for other purposes; mainly for domestic supply, industrial supply. Part “B” of the proforma contains detailed break-up of water consumption.

Raw materials used in coal mining activities are explosives and POL for machines and automobiles, steel, timber, cement, etc.

Pollution discharged into water has been calculated on the basis of water analysis and identified water pollutants. The main pollutants in mine water are suspended solids. The other sources of pollution in the effluent from various processes include oil and grease (from Workshop and CHP).

### **2.2. Air Quality**

Ambient air quality is monitored to study the level of air pollution. CHP has been indicated as fugitive source in reports and mobile sources are HEMM moving on haul road, blasting, exhaust from vehicles and HEMMs, loose materials of OB dumps and burning of coal.

### **2.3 Mining**

Mining activity produces less quantity of any hazardous waste; and it is shown in Part “D” of Form – V. Solid waste produced from mining activities is overburden (OB) material. **Recycling process of this material is normally done by suitably backfilling the same in the extracted portion of the quarry.**

### **2.4 Pollution Control Methods**

The pollution abatement measures for the sake of Environmental Statement are:

- Dust suppression by water spray;
- Afforestation;
- OB Dump Reclamation
- Water spraying to prevent burning of coal.

Items identical under Part “H” of the proforma are those items which the Consultants have felt necessary which is also true for Part “I” in order to help Western Coalfields Limited to organize their abatement efforts for performing mining activities without adversely affecting the environment.

**FORM – V****ENVIRONMENT STATEMENT FOR COAL MINING PROJECT**  
**FINANCIAL YEAR ENDING MARCH 2021****PART – A**

<b>Sr. No.</b>	<b>Particulars</b>	
1.	Name and address of the Mine	Mahadeopuri UG Mine Village & P.O.: Parasia Tehsil: Parasia Distt: Chhindwara State: Madhya Pradesh
2.	Industry category	Category “A”
3.	Production capacity	0.25 MTY
4.	Year of Establishment	1989
5.	Date of last Environmental Statement Report submitted	25 <sup>th</sup> September, 2020

**PART – B****WATER & RAW MATERIALS CONSUMPTION****Table – A Water consumption on Usage Pattern**

<b>Sr.no.</b>	<b>Water Consumption Category</b>	<b>Quantity/usage (in KL/day)</b>
<b>a)</b>	<b>Industrial</b>	
i.	Dust Suppression/recycling for roof support	20
ii.	Fir Fighting	35
iii.	Workshop and others	-
iv.	Green Belt/Plantation	100
v.	CHP Beneficiation	-
<b>b)</b>	<b>Domestic</b>	
i.	Domestic use	5
ii.	Green Belt/Plantation	
	<b>TOTAL</b>	<b>160</b>

**Table – B Water Consumption Against Production (Including Recycled)**

<b>Name of Product</b>	<b>Water Consumption per unit of product (including recycled)</b>	
	<b>During the previous FY 2019-20</b>	<b>During the current FY 2020-21</b>
COAL	509.70 l/t	719.10 l/t

**Table – C Raw Material Consumption**

Name of raw material	Name of product	Consumption of raw material per unit of product	
		During the previous FY 2019-20	During the current FY 2020-21
Explosive (Kg/ton)	Coal	0.32 kg/t	0.54 kg/t

**PART - C**

**Pollution discharged to Environment/unit of output (Parameters specified in the Consent issued)**

1.	Pollutants	Quantity of Pollution Generated	Percentage variation from prescribed standards with reasons
(A)	Water	Water Quality Monitoring reports attached for the year 2020-21	Values of all parameters are within permissible limits.
(B)	Air	Air Quality Monitoring reports attached for the year 2020-21	Values of all parameters are within permissible limits.
(C)	Noise	Noise Quality Monitoring reports attached for the year 2020-21	Values of all parameters are within permissible limits.

**PART - D**

**HAZARDOUS WASTE**

(As specified under Hazardous Waste/ Management & Handling Rules, 2003)

1.	Hazardous Waste	Total Quantity (kg)	
		During the previous FY 2019-20	During the current FY 2020-21
(a)	From Process	Nil	Nil
(b)	From Pollution Control Facilities	Nil	Nil

**PART - E**

**SOLID WASTES**

Sno.	Waste Generation	Total Quantity	
		During the previous FY 2019-20	During the current FY 2020-21
a)	From Process	Nil	Nil
b)	From Pollution Control Facilities	Nil	Nil
c)	Quantity recycled or dumped within quarry void	Nil	Nil
d)	Sold	Nil	Nil
e)	Disposed (as external dumps)	Nil	Nil

**Mm<sup>3</sup> = Million Cubic Metre**

**Note: It is an underground mine.**

## **PART – F**

**please specify characteristics (in terms of concentration & quantum) of hazard as well as solid wastes and indicate disposal practice adopted for both these categories of water.**

The hazardous waste is disposed through:

- Solid wastes in the mine are in the form of overburden material which comprises of sandstone, conglomerates, sandy and clayey shales.

## **PART - G**

**Impacts of pollution control measures on conservation of natural resources and consequently on coal production.**

The brief summary of Pollution Control Measures taken for this mine is as under:

**G.0** In order to carry out mining operations in an environmentally, friendly and planned manner, the sources of pollution were identified and measures were suggested to keep them within permissible limits.

### **G.1 SOURCES OF AIR POLLUTION**

The likely sources of air pollution are as under:

- Drilling operation;
- Blasting operation;
- Loading and transportation of Coal/OB;
- Wind Erosion of Coal Stock/OB Dumps;
- Haul Road/Coal Transportation Roads;
- Exhaust from vehicular movement.

#### **G.1.1 Measures for Control of Air Pollution**

For control of air pollution, measures suggested are:

- Tree plantation along the periphery of the quarry, CHP, around other service buildings along the sides of permanent haul road and open land;
- Regular cleaning of transportation road.

#### **G.1.2 Implementation Status**

- Water is sprinkled by mobile sprinkler (maintained by HOE contractor)

### **G.2 WATER POLLUTION**

#### **G.2.1 Sources of Water Pollution**

The identified sources of water pollution are as under:

TDS and TSS due to mining operation present in the mine water (mainly coal particles);

#### **G.2.2 Water Pollution Control Measures**

- The main pollutant responsible for water pollution is suspended solids. Sedimentation pond should be provided to take care of this pollutant.

#### **G.2.3 Implementation Status**

Settling Tank has been provided.

### **G.3 NOISE POLLUTION**

#### **G.3.1 Sources of Noise Pollution**

The sources of noise pollution are as under:

- Drilling Operation;
- Blasting Operation;
- Operation of CHP;

- Operation of Shovels and Dumpers;
- Workshop.

### **G.3.2 Noise Pollution Control Measures suggested**

The measures for reduction of noise level as envisaged in the EMP are as under:

- Selection of mining equipments so as to keep noise level below 85 dB(A);
- Provision of Ear Plugs for operators exposed for long duration of time;
- Provision of green belt around Workshop, CHP and other sensitive areas;
- Limitation of blasting operation between 12.00 Noon to 2.30 PM.

### **G.3.3 Implementation Status**

Refer to Noise level monitoring reports.

## **PART - H**

### **Additional investment proposal for environmental protection in the area:**

**H.1** The project has incurred an expenditure on the followings in connection with environmental management in the area:

Sl. No.	Particulars	Amount (Rs)
1.	Water Cess	-
2.	Consent Fees	Rs. 10,38,000/-
3.	Air, Water, Noise Quality Monitoring	Done by CMPDIL
4.	Water pollution control measures	-
5.	Air pollution control measures	-

### **H.2 Future Programme**

The project has incurred an expenditure on the following in connection with environmental management in the area.

Sl. No.	Particulars	Amount (Rs)
1.	Water Cess	-
2.	Consent Fees	-
3.	Air, Water, Noise Quality Monitoring	Done by CMPDIL
4.	Water pollution control measures	-
5.	Air pollution control measures	-

## **PART - I**

### **Miscellaneous**

**Any other particulars in respect of environmental protection & abatement of pollution.**

# **ENVIRONMENT AUDIT STATEMENT**

## **FORM-V**

**NAHERIYA UG MINE**

**FY 2020-21**

**Prepared by:**



**September - 2021**

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***WESTERN COALFIELDS LIMITED***

***ENVIRONMENT DEPARTMENT***

***PENCH AREA***

***PARASIA - 480441***

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## **INTRODUCTION**

### **1.1 Genesis**

Industrial pollution in our country is on increase and is creating a high-risk environment. Various legislations viz. The water (Prevention & Control of Pollution) Act, 1974, The Air (Prevention & Control of Pollution) Act, 1981 and The Environment (Protection) Act, 1986 have come into force and organization created to combat pollution. It is being realized that industry and environment should go hand – in – hand so as to achieve sustainable development. Also, over the years, awareness has brought in realization to consider environmental protection a bare necessity. Consideration of environmental factors at par with production helps in minimizing material losses and also in reduction of liabilities in the long run.

### **1.2 Need Of Environmental Statement**

Environmental Audit is a technique being introduced for integrating the interest of the industry and the environment so that these could be mutually supportive. This technique is basically a part of industry's internal procedures in meeting their responsibilities towards better environment. Also, the policy statement for abatement of pollution by the Govt. of India provides for submission of environmental statement by all concerned industries, which would subsequently evolve into an environmental audit. A notification under the Environment (Protection) Rules, 1986 has been issued on April 22, 1993, requiring industries to submit an environmental statement for the financial Year ending on March 31 in Form V to the concerned State Pollution Control Boards on or before September 30 every Year beginning 1993. The Department of Company Affairs also agreed to include this requirement as a part of the Director's Annual Report.

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- ii) Those who require consent under the Air (Prevention & Control of Pollution) Act, 1981: and

Those who require authorization under Hazardous wastes (Management & Handling) Rules, 1989.

Vide Gazette Notification No. G.S.R.329 (E) dated 13th March, 1992, the Ministry of Environment & Forests, Govt. of India have made provisions for Mandatory Environmental Statement as follows:

#### **Quote**

“Every person carrying on an industry, operation or process requiring consent under Section 25 of the Water Act, 1974 or under Section 21 of the Air Act, 1981 or both or authorization under the Hazardous Water Rules, 1989 issued under the Environmental Protection Act, 1986 shall submit an Environmental Audit Report for the financial year ending 31st March in Form – V to the concerned State Pollution Control Board on or before 30th September every year beginning 1993”.

#### **Unquote**

In order to comply with the statutory requirement as well as to maintain corporate image in the region recognizing the importance of comprehensive structural mechanism to ensure that the mining activities do not cause any effects on environment.

## **2.0 Basis of Environment Statement**

### **2.1 Water Quality**

Water is not directly used during mining for coal production except for dust suppression. It percolates into working area during mining operation. However, water is consumed for other purposes; mainly for domestic supply, industrial supply. Part “B” of the proforma contains detailed break-up of water consumption.

Raw materials used in coal mining activities are explosives and POL for machines and automobiles, steel, timber, cement, etc.

Pollution discharged into water has been calculated on the basis of water analysis and identified water pollutants. The main pollutants in mine water are suspended solids. The other sources of pollution in the effluent from various processes include oil and grease (from Workshop and CHP).

### **2.2. Air Quality**

Ambient air quality is monitored to study the level of air pollution. CHP has been indicated as fugitive source in reports and mobile sources are HEMM moving on haul road, blasting, exhaust from vehicles and HEMMs, loose materials of OB dumps and burning of coal.

### **2.3 Mining**

Mining activity produces less quantity of any hazardous waste; and it is shown in Part “D” of Form – V. Solid waste produced from mining activities is overburden (OB) material. **Recycling process of this material is normally done by suitably backfilling the same in the extracted portion of the quarry.**

### **2.4 Pollution Control Methods**

The pollution abatement measures for the sake of Environmental Statement are:

- Dust suppression by water spray;
- Afforestation;
- OB Dump Reclamation
- Water spraying to prevent burning of coal.

Items identical under Part “H” of the proforma are those items which the Consultants have felt necessary which is also true for Part “I” in order to help Western Coalfields Limited to organize their abatement efforts for performing mining activities without adversely affecting the environment.

**FORM – V****ENVIRONMENT STATEMENT FOR COAL MINING PROJECT**  
**FINANCIAL YEAR ENDING MARCH 2021****PART – A**

<b>Sr. No.</b>	<b>Particulars</b>	
1.	Name and address of the Mine	Naheriya UG Mine Village: Naheriya Tehsil: Parasia Distt: Chhindwara State: Madhya Pradesh
2.	Industry category	Category “A”
3.	Production capacity	0.54 MTY
4.	Year of Establishment	2000
5.	Date of last Environmental Statement Report submitted	25 <sup>th</sup> September, 2020

**PART – B****WATER & RAW MATERIALS CONSUMPTION****Table – A Water consumption on Usage Pattern**

<b>Sr.no.</b>	<b>Water Consumption Category</b>	<b>Quantity/usage (in KL/day)</b>
<b>a)</b>	<b>Industrial</b>	
i.	Dust Suppression/recycling for roof support	80.00
ii.	Fir Fighting	80.00
iii.	Workshop and others	-
iv.	Green Belt/Plantation	100.00
v.	CHP Beneficiation	30.00
<b>b)</b>	<b>Domestic</b>	
i.	Domestic use	8.00
ii.	Green Belt/Plantation	-
	<b>TOTAL</b>	<b>298.00</b>

**Table – B Water Consumption Against Production (Including Recycled)**

<b>Name of Product</b>	<b>Water Consumption per unit of product (including recycled)</b>	
	<b>During the previous FY 2019-20</b>	<b>During the current FY 2020-21</b>
COAL	272.49 l/t	412.937 l/t

**Table – C Raw Material Consumption**

Name of raw material	Name of product	Consumption of raw material per unit of product	
		During the previous FY 2019-20	During the current FY 2020-21
Explosive (Kg/ton)	Coal	0.43 kg/t	0.51 kg/t

**PART - C**

**Pollution discharged to Environment/unit of output (Parameters specified in the Consent issued)**

1.	Pollutants	Quantity of Pollution Generated	Percentage variation from prescribed standards with reasons
(A)	Water	Water Quality Monitoring reports attached for the year 2020-21	Values of all parameters are within permissible limits.
(B)	Air	Air Quality Monitoring reports attached for the year 2020-21	Values of all parameters are within permissible limits.
(C)	Noise	Noise Quality Monitoring reports attached for the year 2020-21	Values of all parameters are within permissible limits.

**PART - D**

**HAZARDOUS WASTE**

(As specified under Hazardous Waste/ Management & Handling Rules, 2003)

1.	Hazardous Waste	Total Quantity (kg)	
		During the previous FY 2019-20	During the current FY 2020-21
(a)	From Process	Nil	Nil
(b)	From Pollution Control Facilities	Nil	Nil

**PART - E**

**SOLID WASTES**

Sno.	Waste Generation	Total Quantity	
		During the previous FY 2019-20	During the current FY 2020-21
a)	From Process	Nil	Nil
b)	From Pollution Control Facilities	Nil	Nil
c)	Quantity recycled or dumped within quarry void	Nil	Nil
d)	Sold	Nil	Nil
e)	Disposed (as external dumps)	Nil	Nil

**Mm<sup>3</sup> = Million Cubic Metre**

**Note: It is an underground mine.**

## **PART – F**

**please specify characteristics (in terms of concentration & quantum) of hazard as well as solid wastes and indicate disposal practice adopted for both these categories of water.**

The hazardous waste is disposed through:

- Solid wastes in the mine are in the form of overburden material which comprises of sandstone, conglomerates, sandy and clayey shales.

## **PART - G**

**Impacts of pollution control measures on conservation of natural resources and consequently on coal production.**

The brief summary of Pollution Control Measures taken for this mine is as under:

**G.0** In order to carry out mining operations in an environmentally, friendly and planned manner, the sources of pollution were identified and measures were suggested to keep them within permissible limits.

### **G.1 SOURCES OF AIR POLLUTION**

The likely sources of air pollution are as under:

- Drilling operation;
- Blasting operation;
- Loading and transportation of Coal/OB;
- Wind Erosion of Coal Stock/OB Dumps;
- Haul Road/Coal Transportation Roads;
- Exhaust from vehicular movement.

#### **G.1.1 Measures for Control of Air Pollution**

For control of air pollution, measures suggested are:

- Tree plantation along the periphery of the quarry, CHP, around other service buildings along the sides of permanent haul road and open land;
- Regular cleaning of transportation road.

#### **G.1.2 Implementation Status**

- Water is sprinkled by mobile sprinkler (maintained by HOE contractor)

### **G.2 WATER POLLUTION**

#### **G.2.1 Sources of Water Pollution**

The identified sources of water pollution are as under:

TDS and TSS due to mining operation present in the mine water (mainly coal particles);

#### **G.2.2 Water Pollution Control Measures**

- The main pollutant responsible for water pollution is suspended solids. Sedimentation pond should be provided to take care of this pollutant.

#### **G.2.3 Implementation Status**

Settling Tank has been provided.

### **G.3 NOISE POLLUTION**

#### **G.3.1 Sources of Noise Pollution**

The sources of noise pollution are as under:

- Drilling Operation;
- Blasting Operation;
- Operation of CHP;

- Operation of Shovels and Dumpers;
- Workshop.

### **G.3.2 Noise Pollution Control Measures suggested**

The measures for reduction of noise level as envisaged in the EMP are as under:

- Selection of mining equipments so as to keep noise level below 85 dB(A);
- Provision of Ear Plugs for operators exposed for long duration of time;
- Provision of green belt around Workshop, CHP and other sensitive areas;
- Limitation of blasting operation between 12.00 Noon to 2.30 PM.

### **G.3.3 Implementation Status**

Refer to Noise level monitoring reports.

## **PART - H**

### **Additional investment proposal for environmental protection in the area:**

**H.1** The project has incurred an expenditure on the followings in connection with environmental management in the area:

Sl. No.	Particulars	Amount (Rs)
1.	Water Cess	-
2.	Consent Fees	Rs. 6,00,000/-
3.	Air, Water, Noise Quality Monitoring	Done by CMPDIL
4.	Water pollution control measures	-
5.	Air pollution control measures	-

### **H.2 Future Programme**

The project has incurred an expenditure on the following in connection with environmental management in the area.

Sl. No.	Particulars	Amount (Rs)
1.	Water Cess	-
2.	Consent Fees	-
3.	Air, Water, Noise Quality Monitoring	Done by CMPDIL
4.	Water pollution control measures	-
5.	Air pollution control measures	-

## **PART - I**

### **Miscellaneous**

**Any other particulars in respect of environmental protection & abatement of pollution.**

# **ENVIRONMENT AUDIT STATEMENT** **FORM-V**

**NEW SETHIA OC MINE**

**FY 2020-21**

**Prepared by:**



**September - 2021**

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***WESTERN COALFIELDS LIMITED***

***ENVIRONMENT DEPARTMENT***

***PENCH AREA***

***PARASIA - 480441***

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	<b>PART-C</b>	<b>04</b>
	<b>PART-D</b>	<b>04</b>
	<b>PART-E</b>	<b>04</b>
	<b>PART-F</b>	<b>05</b>
	<b>PART-G</b>	<b>05</b>
	<b>PART-H</b>	<b>06</b>
	<b>PART-I</b>	<b>06</b>
<b>3.</b>	<b>Monitoring Reports</b>	<b>07</b>

## **INTRODUCTION**

### **1.1 Genesis**

Industrial pollution in our country is on increase and is creating a high-risk environment. Various legislations viz. The water (Prevention & Control of Pollution) Act, 1974, The Air (Prevention & Control of Pollution) Act, 1981 and The Environment (Protection) Act, 1986 have come into force and organization created to combat pollution. It is being realized that industry and environment should go hand – in – hand so as to achieve sustainable development. Also, over the years, awareness has brought in realization to consider environmental protection a bare necessity. Consideration of environmental factors at par with production helps in minimizing material losses and also in reduction of liabilities in the long run.

### **1.2 Need Of Environmental Statement**

Environmental Audit is a technique being introduced for integrating the interest of the industry and the environment so that these could be mutually supportive. This technique is basically a part of industry's internal procedures in meeting their responsibilities towards better environment. Also, the policy statement for abatement of pollution by the Govt. of India provides for submission of environmental statement by all concerned industries, which would subsequently evolve into an environmental audit. A notification under the Environment (Protection) Rules, 1986 has been issued on April 22, 1993, requiring industries to submit an environmental statement for the financial Year ending on March 31 in Form V to the concerned State Pollution Control Boards on or before September 30 every Year beginning 1993. The Department of Company Affairs also agreed to include this requirement as a part of the Director's Annual Report.

The submission of an environmental statement is applicable to the following.

- i) Those who require consent under the water (Prevention & Control of Pollution) Act, 1974:
- ii) Those who require consent under the Air (Prevention & Control of Pollution) Act, 1981: and

Those who require authorization under Hazardous wastes (Management & Handling) Rules, 1989.

Vide Gazette Notification No. G.S.R.329 (E) dated 13th March, 1992, the Ministry of Environment & Forests, Govt. of India have made provisions for Mandatory Environmental Statement as follows:

#### **Quote**

“Every person carrying on an industry, operation or process requiring consent under Section 25 of the Water Act, 1974 or under Section 21 of the Air Act, 1981 or both or authorization under the Hazardous Water Rules, 1989 issued under the Environmental Protection Act, 1986 shall submit an Environmental Audit Report for the financial year ending 31st March in Form – V to the concerned State Pollution Control Board on or before 30th September every year beginning 1993”.

#### **Unquote**

In order to comply with the statutory requirement as well as to maintain corporate image in the region recognizing the importance of comprehensive structural mechanism to ensure that the mining activities do not cause any effects on environment.

## **2.0 Basis of Environment Statement**

### **2.1 Water Quality**

Water is not directly used during mining for coal production except for dust suppression. It percolates into working area during mining operation. However, water is consumed for other purposes; mainly for domestic supply, industrial supply. Part “B” of the proforma contains detailed break-up of water consumption.

Raw materials used in coal mining activities are explosives and POL for machines and automobiles, steel, timber, cement, etc.

Pollution discharged into water has been calculated on the basis of water analysis and identified water pollutants. The main pollutants in mine water are suspended solids. The other sources of pollution in the effluent from various processes include oil and grease (from Workshop and CHP).

### **2.2. Air Quality**

Ambient air quality is monitored to study the level of air pollution. CHP has been indicated as fugitive source in reports and mobile sources are HEMM moving on haul road, blasting, exhaust from vehicles and HEMMs, loose materials of OB dumps and burning of coal.

### **2.3 Mining**

Mining activity produces less quantity of any hazardous waste; and it is shown in Part “D” of Form – V. Solid waste produced from mining activities is overburden (OB) material. **Recycling process of this material is normally done by suitably backfilling the same in the extracted portion of the quarry.**

### **2.4 Pollution Control Methods**

The pollution abatement measures for the sake of Environmental Statement are:

- Dust suppression by water spray;
- Afforestation;
- OB Dump Reclamation
- Water spraying to prevent burning of coal.

Items identical under Part “H” of the proforma are those items which the Consultants have felt necessary which is also true for Part “I” in order to help Western Coalfields Limited to organize their abatement efforts for performing mining activities without adversely affecting the environment.

## **FORM – V**

### **ENVIRONMENT STATEMENT FOR COAL MINING PROJECT** **FINANCIAL YEAR ENDING MARCH 2021**

#### **PART – A**

<b>Sr. No.</b>	<b>Particulars</b>	
1.	Name and address of the Mine	New Sethia OC Mine Village: Sethia Tehsil: Parasia Distt: Chhindwara State: Madhya Pradesh - 480441
2.	Industry category	Category “A”
3.	Production capacity	0.50 MTY
4.	Year of Establishment	2007
5.	Date of last Environmental Statement Report submitted	25 <sup>th</sup> September, 2020

#### **PART – B**

### **WATER & RAW MATERIALS CONSUMPTION**

**Table – A Water consumption on Usage Pattern**

<b>Sr.no.</b>	<b>Water Consumption Category</b>	<b>Quantity/usage (in KL/day)</b>
<b>a)</b>	<b>Industrial</b>	
i.	Dust Suppression/recycling for roof support	110
ii.	Fir Fighting	35
iii.	Workshop and others	-
iv.	Green Belt/Plantation	20
v.	CHP Beneficiation	-
<b>b)</b>	<b>Domestic</b>	
i.	Domestic use	5
ii.	Green Belt/Plantation	-
	<b>TOTAL</b>	<b>170</b>

**Table – B Water Consumption Against Production (Including Recycled)**

<b>Name of Product</b>	<b>Water Consumption per unit of product (including recycled)</b>	
	<b>During the previous FY 2019-20</b>	<b>During the current FY 2020-21</b>
COAL	128.89 l/t	381.00 l/t

Table – C Raw Material Consumption

Name of raw material	Name of product	Consumption of raw material per unit of product	
		During the previous FY 2019-20	During the current FY 2020-21
Explosive (Kg/ton)	Coal	0.847 kg/t	1.144 kg/t

**PART - C**

**Pollution discharged to Environment/unit of output (Parameters specified in the Consent issued)**

1.	Pollutants	Quantity of Pollution Generated	Percentage variation from prescribed standards with reasons
(A)	Water	Water Quality Monitoring reports attached for the year 2020-21	Values of all parameters are within permissible limits.
(B)	Air	Air Quality Monitoring reports attached for the year 2020-21	Values of all parameters are within permissible limits.
(C)	Noise	Noise Quality Monitoring reports attached for the year 2020-21	Values of all parameters are within permissible limits.

**PART - D**

**HAZARDOUS WASTE**

(As specified under Hazardous Waste/ Management & Handling Rules, 2003)

1.	Hazardous Waste	Total Quantity (kg)	
		During the previous FY 2019-20	During the current FY 2020-21
(a)	From Process	Nil	Nil
(b)	From Pollution Control Facilities	Nil	Nil

**PART - E**

**SOLID WASTES**

Sno.	Waste Generation	Total Quantity	
		During the previous FY 2019-20	During the current FY 2020-21
a)	From Process	0.963428 Mm3	0.464942 Mm3
b)	From Pollution Control Facilities	Nil	Nil
c)	Quantity recycled or dumped within quarry void	0.963428 Mm3	0.464942 Mm3
d)	Sold	Nil	Nil
e)	Disposed (as external dumps)	Nil	Nil

**Mm<sup>3</sup> = Million Cubic Metre**

## **PART – F**

**please specify characteristics (in terms of concentration & quantum) of hazard as well as solid wastes and indicate disposal practice adopted for both these categories of water.**

The hazardous waste is disposed through:

- Solid wastes in the mine are in the form of overburden material which comprises of sandstone, conglomerates, sandy and clayey shales.

## **PART - G**

**Impacts of pollution control measures on conservation of natural resources and consequently on coal production.**

The brief summary of Pollution Control Measures taken for this mine is as under:

**G.0** In order to carry out mining operations in an environmentally, friendly and planned manner, the sources of pollution were identified and measures were suggested to keep them within permissible limits.

### **G.1 SOURCES OF AIR POLLUTION**

The likely sources of air pollution are as under:

- Drilling operation;
- Blasting operation;
- Loading and transportation of Coal/OB;
- Wind Erosion of Coal Stock/OB Dumps;
- Haul Road/Coal Transportation Roads;
- Exhaust from vehicular movement.

#### **G.1.1 Measures for Control of Air Pollution**

For control of air pollution, measures suggested are:

- Tree plantation along the periphery of the quarry, CHP, around other service buildings along the sides of permanent haul road and open land;
- Regular cleaning of transportation road.

#### **G.1.2 Implementation Status**

- Water is sprinkled by mobile sprinkler (maintained by HOE contractor)

### **G.2 WATER POLLUTION**

#### **G.2.1 Sources of Water Pollution**

The identified sources of water pollution are as under:

TDS and TSS due to mining operation present in the mine water (mainly coal particles);

#### **G.2.2 Water Pollution Control Measures**

- The main pollutant responsible for water pollution is suspended solids. Sedimentation pond should be provided to take care of this pollutant.

#### **G.2.3 Implementation Status**

Settling Tank has been provided.

### **G.3 NOISE POLLUTION**

#### **G.3.1 Sources of Noise Pollution**

The sources of noise pollution are as under:

- Drilling Operation;
- Blasting Operation;
- Operation of CHP;

- Operation of Shovels and Dumpers;
- Workshop.

### **G.3.2 Noise Pollution Control Measures suggested**

The measures for reduction of noise level as envisaged in the EMP are as under:

- Selection of mining equipments so as to keep noise level below 85 dB(A);
- Provision of Ear Plugs for operators exposed for long duration of time;
- Provision of green belt around Workshop, CHP and other sensitive areas;
- Limitation of blasting operation between 12.00 Noon to 2.30 PM.

### **G.3.3 Implementation Status**

Refer to Noise level monitoring reports.

## **PART - H**

### **Additional investment proposal for environmental protection in the area:**

**H.1** The project has incurred an expenditure on the followings in connection with environmental management in the area:

Sl. No.	Particulars	Amount (Rs)
1.	Water Cess	-
2.	Consent Fees	-
3.	Air, Water, Noise Quality Monitoring	Done by CMPDIL
4.	Water pollution control measures	-
5.	Air pollution control measures	-

### **H.2 Future Programme**

The project has incurred an expenditure on the following in connection with environmental management in the area.

Sl. No.	Particulars	Amount (Rs)
1.	Water Cess	-
2.	Consent Fees	-
3.	Air, Water, Noise Quality Monitoring	Done by CMPDIL
4.	Water pollution control measures	-
5.	Air pollution control measures	-

## **PART - I**

### **Miscellaneous**

**Any other particulars in respect of environmental protection & abatement of pollution.**

# **ENVIRONMENT AUDIT STATEMENT** **FORM-V**

## **THESGORA-MATHANI UG MINE**

**FY 2020-21**

**Prepared by:**



**September - 2021**

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***WESTERN COALFIELDS LIMITED***

***ENVIRONMENT DEPARTMENT***

***PENCH AREA***

***PARASIA - 480441***

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## **INTRODUCTION**

### **1.1 Genesis**

Industrial pollution in our country is on increase and is creating a high-risk environment. Various legislations viz. The water (Prevention & Control of Pollution) Act, 1974, The Air (Prevention & Control of Pollution) Act, 1981 and The Environment (Protection) Act, 1986 have come into force and organization created to combat pollution. It is being realized that industry and environment should go hand – in – hand so as to achieve sustainable development. Also, over the years, awareness has brought in realization to consider environmental protection a bare necessity. Consideration of environmental factors at par with production helps in minimizing material losses and also in reduction of liabilities in the long run.

### **1.2 Need Of Environmental Statement**

Environmental Audit is a technique being introduced for integrating the interest of the industry and the environment so that these could be mutually supportive. This technique is basically a part of industry's internal procedures in meeting their responsibilities towards better environment. Also, the policy statement for abatement of pollution by the Govt. of India provides for submission of environmental statement by all concerned industries, which would subsequently evolve into an environmental audit. A notification under the Environment (Protection) Rules, 1986 has been issued on April 22, 1993, requiring industries to submit an environmental statement for the financial Year ending on March 31 in Form V to the concerned State Pollution Control Boards on or before September 30 every Year beginning 1993. The Department of Company Affairs also agreed to include this requirement as a part of the Director's Annual Report.

The submission of an environmental statement is applicable to the following.

- i) Those who require consent under the water (Prevention & Control of Pollution) Act, 1974:
- ii) Those who require consent under the Air (Prevention & Control of Pollution) Act, 1981: and

Those who require authorization under Hazardous wastes (Management & Handling) Rules, 1989.

Vide Gazette Notification No. G.S.R.329 (E) dated 13th March, 1992, the Ministry of Environment & Forests, Govt. of India have made provisions for Mandatory Environmental Statement as follows:

#### **Quote**

“Every person carrying on an industry, operation or process requiring consent under Section 25 of the Water Act, 1974 or under Section 21 of the Air Act, 1981 or both or authorization under the Hazardous Water Rules, 1989 issued under the Environmental Protection Act, 1986 shall submit an Environmental Audit Report for the financial year ending 31st March in Form – V to the concerned State Pollution Control Board on or before 30th September every year beginning 1993”.

#### **Unquote**

In order to comply with the statutory requirement as well as to maintain corporate image in the region recognizing the importance of comprehensive structural mechanism to ensure that the mining activities do not cause any effects on environment.

## **2.0 Basis of Environment Statement**

### **2.1 Water Quality**

Water is not directly used during mining for coal production except for dust suppression. It percolates into working area during mining operation. However, water is consumed for other purposes; mainly for domestic supply, industrial supply. Part “B” of the proforma contains detailed break-up of water consumption.

Raw materials used in coal mining activities are explosives and POL for machines and automobiles, steel, timber, cement, etc.

Pollution discharged into water has been calculated on the basis of water analysis and identified water pollutants. The main pollutants in mine water are suspended solids. The other sources of pollution in the effluent from various processes include oil and grease (from Workshop and CHP).

### **2.2. Air Quality**

Ambient air quality is monitored to study the level of air pollution. CHP has been indicated as fugitive source in reports and mobile sources are HEMM moving on haul road, blasting, exhaust from vehicles and HEMMs, loose materials of OB dumps and burning of coal.

### **2.3 Mining**

Mining activity produces less quantity of any hazardous waste; and it is shown in Part “D” of Form – V. Solid waste produced from mining activities is overburden (OB) material. **Recycling process of this material is normally done by suitably backfilling the same in the extracted portion of the quarry.**

### **2.4 Pollution Control Methods**

The pollution abatement measures for the sake of Environmental Statement are:

- Dust suppression by water spray;
- Afforestation;
- OB Dump Reclamation
- Water spraying to prevent burning of coal.

Items identical under Part “H” of the proforma are those items which the Consultants have felt necessary which is also true for Part “I” in order to help Western Coalfields Limited to organize their abatement efforts for performing mining activities without adversely affecting the environment.

**FORM – V****ENVIRONMENT STATEMENT FOR COAL MINING PROJECT**  
**FINANCIAL YEAR ENDING MARCH 2021****PART – A**

<b>Sr. No.</b>	<b>Particulars</b>	
1.	Name and address of the Mine	Thesgora-Mathani UG Mine Village: Mathani Tehsil: Parasia Distt: Chhindwara State: Madhya Pradesh
2.	Industry category	Category “A”
3.	Production capacity	0.27 MTY
4.	Year of Establishment	1992
5.	Date of last Environmental Statement Report submitted	25 <sup>th</sup> September, 2020

**PART – B****WATER & RAW MATERIALS CONSUMPTION****Table – A Water consumption on Usage Pattern**

<b>Sr.no.</b>	<b>Water Consumption Category</b>	<b>Quantity/usage (in KL/day)</b>
<b>a)</b>	<b>Industrial</b>	
i.	Dust Suppression/recycling for roof support	50.00
ii.	Fir Fighting	50.0
iii.	Workshop and others	-
iv.	Green Belt/Plantation	20.00
v.	CHP Beneficiation	-
<b>b)</b>	<b>Domestic</b>	
i.	Domestic use	5.00
ii.	Green Belt/Plantation	-
	<b>TOTAL</b>	<b>125.0 0</b>

**Table – B Water Consumption Against Production (Including Recycled)**

<b>Name of Product</b>	<b>Water Consumption per unit of product (including recycled)</b>	
	<b>During the previous FY 2019-20</b>	<b>During the current FY 2020-21</b>
COAL	313.68 l/t	438.87 l/t

**Table – C Raw Material Consumption**

Name of raw material	Name of product	Consumption of raw material per unit of product	
		During the previous FY 2019-20	During the current FY 2020-21
Explosive (Kg/ton)	Coal	0.237 kg/t	0.464 kg/t

**PART - C**

**Pollution discharged to Environment/unit of output (Parameters specified in the Consent issued)**

1.	Pollutants	Quantity of Pollution Generated	Percentage variation from prescribed standards with reasons
(A)	Water	Water Quality Monitoring reports attached for the year 2020-21	Values of all parameters are within permissible limits.
(B)	Air	Air Quality Monitoring reports attached for the year 2020-21	Values of all parameters are within permissible limits.
(C)	Noise	Noise Quality Monitoring reports attached for the year 2020-21	Values of all parameters are within permissible limits.

**PART - D**

**HAZARDOUS WASTE**

(As specified under Hazardous Waste/ Management & Handling Rules, 2003)

1.	Hazardous Waste	Total Quantity (kg)	
		During the previous FY 2019-20	During the current FY 2020-21
(a)	From Process	Nil	Nil
(b)	From Pollution Control Facilities	Nil	Nil

**PART - E**

**SOLID WASTES**

Sno.	Waste Generation	Total Quantity	
		During the previous FY 2019-20	During the current FY 2020-21
a)	From Process	Nil	Nil
b)	From Pollution Control Facilities	Nil	Nil
c)	Quantity recycled or dumped within quarry void	Nil	Nil
d)	Sold	Nil	Nil
e)	Disposed (as external dumps)	Nil	Nil

**Mm<sup>3</sup> = Million Cubic Metre**

**Note: It is an underground mine.**

## **PART – F**

**please specify characteristics (in terms of concentration & quantum) of hazard as well as solid wastes and indicate disposal practice adopted for both these categories of water.**

The hazardous waste is disposed through:

- Solid wastes in the mine are in the form of overburden material which comprises of sandstone, conglomerates, sandy and clayey shales.

## **PART - G**

**Impacts of pollution control measures on conservation of natural resources and consequently on coal production.**

The brief summary of Pollution Control Measures taken for this mine is as under:

**G.0** In order to carry out mining operations in an environmentally, friendly and planned manner, the sources of pollution were identified and measures were suggested to keep them within permissible limits.

### **G.1 SOURCES OF AIR POLLUTION**

The likely sources of air pollution are as under:

- Drilling operation;
- Blasting operation;
- Loading and transportation of Coal/OB;
- Wind Erosion of Coal Stock/OB Dumps;
- Haul Road/Coal Transportation Roads;
- Exhaust from vehicular movement.

#### **G.1.1 Measures for Control of Air Pollution**

For control of air pollution, measures suggested are:

- Tree plantation along the periphery of the quarry, CHP, around other service buildings along the sides of permanent haul road and open land;
- Regular cleaning of transportation road.

#### **G.1.2 Implementation Status**

- Water is sprinkled by mobile sprinkler (maintained by HOE contractor)

### **G.2 WATER POLLUTION**

#### **G.2.1 Sources of Water Pollution**

The identified sources of water pollution are as under:

TDS and TSS due to mining operation present in the mine water (mainly coal particles);

#### **G.2.2 Water Pollution Control Measures**

- The main pollutant responsible for water pollution is suspended solids. Sedimentation pond should be provided to take care of this pollutant.

#### **G.2.3 Implementation Status**

Settling Tank has been provided.

### **G.3 NOISE POLLUTION**

#### **G.3.1 Sources of Noise Pollution**

The sources of noise pollution are as under:

- Drilling Operation;
- Blasting Operation;
- Operation of CHP;

- Operation of Shovels and Dumpers;
- Workshop.

### **G.3.2 Noise Pollution Control Measures suggested**

The measures for reduction of noise level as envisaged in the EMP are as under:

- Selection of mining equipments so as to keep noise level below 85 dB(A);
- Provision of Ear Plugs for operators exposed for long duration of time;
- Provision of green belt around Workshop, CHP and other sensitive areas;
- Limitation of blasting operation between 12.00 Noon to 2.30 PM.

### **G.3.3 Implementation Status**

Refer to Noise level monitoring reports.

## **PART - H**

### **Additional investment proposal for environmental protection in the area:**

**H.1** The project has incurred an expenditure on the followings in connection with environmental management in the area:

Sl. No.	Particulars	Amount (Rs)
1.	Water Cess	-
2.	Consent Fees	-
3.	Air, Water, Noise Quality Monitoring	Done by CMPDIL
4.	Water pollution control measures	-
5.	Air pollution control measures	-

### **H.2 Future Programme**

The project has incurred an expenditure on the following in connection with environmental management in the area.

Sl. No.	Particulars	Amount (Rs)
1.	Water Cess	-
2.	Consent Fees	-
3.	Air, Water, Noise Quality Monitoring	Done by CMPDIL
4.	Water pollution control measures	-
5.	Air pollution control measures	-

## **PART - I**

### **Miscellaneous**

**Any other particulars in respect of environmental protection & abatement of pollution.**

# **ENVIRONMENT AUDIT STATEMENT**

## **FORM-V**

**URDHAN OC MINE**

**FY 2020-21**

**Prepared by:**



**September - 2021**

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***WESTERN COALFIELDS LIMITED***

***ENVIRONMENT DEPARTMENT***

***PENCH AREA***

***PARASIA - 480441***

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Industrial pollution in our country is on increase and is creating a high-risk environment. Various legislations viz. The water (Prevention & Control of Pollution) Act, 1974, The Air (Prevention & Control of Pollution) Act, 1981 and The Environment (Protection) Act, 1986 have come into force and organization created to combat pollution. It is being realized that industry and environment should go hand – in – hand so as to achieve sustainable development. Also, over the years, awareness has brought in realization to consider environmental protection a bare necessity. Consideration of environmental factors at par with production helps in minimizing material losses and also in reduction of liabilities in the long run.

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**FORM – V****ENVIRONMENT STATEMENT FOR COAL MINING PROJECT**  
**FINANCIAL YEAR ENDING MARCH 2021****PART – A**

<b>Sr. No.</b>	<b>Particulars</b>	
1.	Name and address of the Mine	Urdhan OC Mine Village: Urdhan Tehsil: Parasia Distt: Chhindwara State: Madhya Pradesh
2.	Industry category	Category “A”
3.	Production capacity	0.70 MTY
4.	Year of Establishment	2010
5.	Date of last Environmental Statement Report submitted	25 <sup>th</sup> September, 2020

**PART – B****WATER & RAW MATERIALS CONSUMPTION****Table – A Water consumption on Usage Pattern**

<b>Sr.no.</b>	<b>Water Consumption Category</b>	<b>Quantity/usage (in KL/day)</b>
<b>a)</b>	<b>Industrial</b>	
i.	Dust Suppression/recycling for roof support	120
ii.	Fir Fighting	100
iii.	Workshop and others	Nil
iv.	Green Belt/Plantation	40
v.	CHP Beneficiation	35
<b>b)</b>	<b>Domestic</b>	
i.	Domestic use	5
ii.	Green Belt/Plantation	Nil
	<b>TOTAL</b>	<b>300</b>

**Table – B Water Consumption Against Production (Including Recycled)**

<b>Name of Product</b>	<b>Water Consumption per unit of product (including recycled)</b>	
	<b>During the previous FY 2019-20</b>	<b>During the current FY 2020-21</b>
COAL	Nil	3111.60 l/t

**Table – C Raw Material Consumption**

Name of raw material	Name of product	Consumption of raw material per unit of product	
		During the previous FY 2019-20	During the current FY 2020-21
Explosive (Kg/ton)	Coal	Nil	Nil

**PART - C**

**Pollution discharged to Environment/unit of output (Parameters specified in the Consent issued)**

1.	Pollutants	Quantity of Pollution Generated	Percentage variation from prescribed standards with reasons
(A)	Water	Water Quality Monitoring reports attached for the year 2020-21	Values of all parameters are within permissible limits.
(B)	Air	Air Quality Monitoring reports attached for the year 2020-21	Values of all parameters are within permissible limits.
(C)	Noise	Noise Quality Monitoring reports attached for the year 2020-21	Values of all parameters are within permissible limits.

**PART - D**

**HAZARDOUS WASTE**

(As specified under Hazardous Waste/ Management & Handling Rules, 2003)

1.	Hazardous Waste	Total Quantity (kg)	
		During the previous FY 2019-20	During the current FY 2020-21
(a)	From Process	Nil	Nil
(b)	From Pollution Control Facilities	Nil	Nil

**PART - E**

**SOLID WASTES**

Sno.	Waste Generation	Total Quantity	
		During the previous FY 2019-20	During the current FY 2020-21
a)	From Process	Nil	0.621291 Mm3
b)	From Pollution Control Facilities	Nil	Nil
c)	Quantity recycled or dumped within quarry void	Nil	0.621291 Mm3
d)	Sold	Nil	Nil
e)	Disposed (as external dumps)	Nil	Nil

**Mm<sup>3</sup> = Million Cubic Metre**

## **PART – F**

**please specify characteristics (in terms of concentration & quantum) of hazard as well as solid wastes and indicate disposal practice adopted for both these categories of water.**

The hazardous waste is disposed through:

- Solid wastes in the mine are in the form of overburden material which comprises of sandstone, conglomerates, sandy and clayey shales.

## **PART - G**

**Impacts of pollution control measures on conservation of natural resources and consequently on coal production.**

The brief summary of Pollution Control Measures taken for this mine is as under:

**G.0** In order to carry out mining operations in an environmentally, friendly and planned manner, the sources of pollution were identified and measures were suggested to keep them within permissible limits.

### **G.1 SOURCES OF AIR POLLUTION**

The likely sources of air pollution are as under:

- Drilling operation;
- Blasting operation;
- Loading and transportation of Coal/OB;
- Wind Erosion of Coal Stock/OB Dumps;
- Haul Road/Coal Transportation Roads;
- Exhaust from vehicular movement.

#### **G.1.1 Measures for Control of Air Pollution**

For control of air pollution, measures suggested are:

- Tree plantation along the periphery of the quarry, CHP, around other service buildings along the sides of permanent haul road and open land;
- Regular cleaning of transportation road.

#### **G.1.2 Implementation Status**

- Water is sprinkled by mobile sprinkler (maintained by HOE contractor)

### **G.2 WATER POLLUTION**

#### **G.2.1 Sources of Water Pollution**

The identified sources of water pollution are as under:

TDS and TSS due to mining operation present in the mine water (mainly coal particles);

#### **G.2.2 Water Pollution Control Measures**

- The main pollutant responsible for water pollution is suspended solids. Sedimentation pond should be provided to take care of this pollutant.

#### **G.2.3 Implementation Status**

Settling Tank has been provided.

### **G.3 NOISE POLLUTION**

#### **G.3.1 Sources of Noise Pollution**

The sources of noise pollution are as under:

- Drilling Operation;
- Blasting Operation;
- Operation of CHP;

- Operation of Shovels and Dumpers;
- Workshop.

### **G.3.2 Noise Pollution Control Measures suggested**

The measures for reduction of noise level as envisaged in the EMP are as under:

- Selection of mining equipments so as to keep noise level below 85 dB(A);
- Provision of Ear Plugs for operators exposed for long duration of time;
- Provision of green belt around Workshop, CHP and other sensitive areas;
- Limitation of blasting operation between 12.00 Noon to 2.30 PM.

### **G.3.3 Implementation Status**

Refer to Noise level monitoring reports.

## **PART - H**

### **Additional investment proposal for environmental protection in the area:**

**H.1** The project has incurred an expenditure on the followings in connection with environmental management in the area:

<b>Sl. No.</b>	<b>Particulars</b>	<b>Amount (Rs)</b>
1.	Water Cess	-
2.	Consent Fees	Rs. 18,90,000/-
3.	Air, Water, Noise Quality Monitoring	Done by CMPDIL
4.	Water pollution control measures	-
5.	Air pollution control measures	-

### **H.2 Future Programme**

The project has incurred an expenditure on the following in connection with environmental management in the area.

<b>Sl. No.</b>	<b>Particulars</b>	<b>Amount (Rs)</b>
1.	Water Cess	-
2.	Consent Fees	-
3.	Air, Water, Noise Quality Monitoring	Done by CMPDIL
4.	Water pollution control measures	-
5.	Air pollution control measures	-

## **PART - I**

### **Miscellaneous**

**Any other particulars in respect of environmental protection & abatement of pollution.**

# **ENVIRONMENT AUDIT STATEMENT** **FORM-V**

## **VISHNUPURI NO. II UG MINE**

**FY 2020-21**

**Prepared by:**



**September - 2021**

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***WESTERN COALFIELDS LIMITED***

***ENVIRONMENT DEPARTMENT***

***PENCH AREA***

***PARASIA - 480441***

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## **INTRODUCTION**

### **1.1 Genesis**

Industrial pollution in our country is on increase and is creating a high-risk environment. Various legislations viz. The water (Prevention & Control of Pollution) Act, 1974, The Air (Prevention & Control of Pollution) Act, 1981 and The Environment (Protection) Act, 1986 have come into force and organization created to combat pollution. It is being realized that industry and environment should go hand – in – hand so as to achieve sustainable development. Also, over the years, awareness has brought in realization to consider environmental protection a bare necessity. Consideration of environmental factors at par with production helps in minimizing material losses and also in reduction of liabilities in the long run.

### **1.2 Need Of Environmental Statement**

Environmental Audit is a technique being introduced for integrating the interest of the industry and the environment so that these could be mutually supportive. This technique is basically a part of industry's internal procedures in meeting their responsibilities towards better environment. Also, the policy statement for abatement of pollution by the Govt. of India provides for submission of environmental statement by all concerned industries, which would subsequently evolve into an environmental audit. A notification under the Environment (Protection) Rules, 1986 has been issued on April 22, 1993, requiring industries to submit an environmental statement for the financial Year ending on March 31 in Form V to the concerned State Pollution Control Boards on or before September 30 every Year beginning 1993. The Department of Company Affairs also agreed to include this requirement as a part of the Director's Annual Report.

The submission of an environmental statement is applicable to the following.

- i) Those who require consent under the water (Prevention & Control of Pollution) Act, 1974:
- ii) Those who require consent under the Air (Prevention & Control of Pollution) Act, 1981: and

Those who require authorization under Hazardous wastes (Management & Handling) Rules, 1989.

Vide Gazette Notification No. G.S.R.329 (E) dated 13th March, 1992, the Ministry of Environment & Forests, Govt. of India have made provisions for Mandatory Environmental Statement as follows:

#### **Quote**

“Every person carrying on an industry, operation or process requiring consent under Section 25 of the Water Act, 1974 or under Section 21 of the Air Act, 1981 or both or authorization under the Hazardous Water Rules, 1989 issued under the Environmental Protection Act, 1986 shall submit an Environmental Audit Report for the financial year ending 31st March in Form – V to the concerned State Pollution Control Board on or before 30th September every year beginning 1993”.

#### **Unquote**

In order to comply with the statutory requirement as well as to maintain corporate image in the region recognizing the importance of comprehensive structural mechanism to ensure that the mining activities do not cause any effects on environment.

## **2.0 Basis of Environment Statement**

### **2.1 Water Quality**

Water is not directly used during mining for coal production except for dust suppression. It percolates into working area during mining operation. However, water is consumed for other purposes; mainly for domestic supply, industrial supply. Part “B” of the proforma contains detailed break-up of water consumption.

Raw materials used in coal mining activities are explosives and POL for machines and automobiles, steel, timber, cement, etc.

Pollution discharged into water has been calculated on the basis of water analysis and identified water pollutants. The main pollutants in mine water are suspended solids. The other sources of pollution in the effluent from various processes include oil and grease (from Workshop and CHP).

### **2.2. Air Quality**

Ambient air quality is monitored to study the level of air pollution. CHP has been indicated as fugitive source in reports and mobile sources are HEMM moving on haul road, blasting, exhaust from vehicles and HEMMs, loose materials of OB dumps and burning of coal.

### **2.3 Mining**

Mining activity produces less quantity of any hazardous waste; and it is shown in Part “D” of Form – V. Solid waste produced from mining activities is overburden (OB) material. **Recycling process of this material is normally done by suitably backfilling the same in the extracted portion of the quarry.**

### **2.4 Pollution Control Methods**

The pollution abatement measures for the sake of Environmental Statement are:

- Dust suppression by water spray;
- Afforestation;
- OB Dump Reclamation
- Water spraying to prevent burning of coal.

Items identical under Part “H” of the proforma are those items which the Consultants have felt necessary which is also true for Part “I” in order to help Western Coalfields Limited to organize their abatement efforts for performing mining activities without adversely affecting the environment.

**FORM – V****ENVIRONMENT STATEMENT FOR COAL MINING PROJECT**  
**FINANCIAL YEAR ENDING MARCH 2021****PART – A**

<b>Sr. No.</b>	<b>Particulars</b>	
1.	Name and address of the Mine	Vishnupuri No. II UG Mine Village: Kukurmunda Tehsil: Parasia Distt: Chhindwara State: Madhya Pradesh
2.	Industry category	Category “A”
3.	Production capacity	0.26 MTY
4.	Year of Establishment	1992
5.	Date of last Environmental Statement Report submitted	25 <sup>th</sup> September, 2020

**PART – B****WATER & RAW MATERIALS CONSUMPTION****Table – A Water consumption on Usage Pattern**

<b>Sr.no.</b>	<b>Water Consumption Category</b>	<b>Quantity/usage (in KL/day)</b>
<b>a)</b>	<b>Industrial</b>	
i.	Dust Suppression/recycling for roof support	20.00
ii.	Fir Fighting	-
iii.	Workshop and others	-
iv.	Green Belt/Plantation	-
v.	CHP Beneficiation	-
<b>b)</b>	<b>Domestic</b>	
i.	Domestic use	05.00
ii.	Green Belt/Plantation	-
	<b>TOTAL</b>	<b>25.00</b>

**Table – B Water Consumption Against Production (Including Recycled)**

<b>Name of Product</b>	<b>Water Consumption per unit of product (including recycled)</b>	
	<b>During the previous FY 2019-20</b>	<b>During the current FY 2020-21</b>
COAL	78.20 l/t	81.55 l/t

Table – C Raw Material Consumption

Name of raw material	Name of product	Consumption of raw material per unit of product	
		During the previous FY 2019-20	During the current FY 2020-21
Explosive (Kg/ton)	Coal	0.457 Kg/t	0.554 Kg/t

**PART - C**

**Pollution discharged to Environment/unit of output (Parameters specified in the Consent issued)**

1.	Pollutants	Quantity of Pollution Generated	Percentage variation from prescribed standards with reasons
(A)	Water	Water Quality Monitoring reports attached for the year 2020-21	Values of all parameters are within permissible limits.
(B)	Air	Air Quality Monitoring reports attached for the year 2020-21	Values of all parameters are within permissible limits.
(C)	Noise	Noise Quality Monitoring reports attached for the year 2020-21	Values of all parameters are within permissible limits.

**PART - D**

**HAZARDOUS WASTE**

(As specified under Hazardous Waste/ Management & Handling Rules, 2003)

1.	Hazardous Waste	Total Quantity (kg)	
		During the previous FY 2019-20	During the current FY 2020-21
(a)	From Process	Nil	Nil
(b)	From Pollution Control Facilities	Nil	Nil

**PART - E**

**SOLID WASTES**

Sno.	Waste Generation	Total Quantity	
		During the previous FY 2019-20	During the current FY 2020-21
a)	From Process	Nil	Nil
b)	From Pollution Control Facilities	Nil	Nil
c)	Quantity recycled or dumped within quarry void	Nil	Nil
d)	Sold	Nil	Nil
e)	Disposed (as external dumps)	Nil	Nil

**Mm<sup>3</sup> = Million Cubic Metre**

**Note: It is an underground mine.**

## **PART – F**

**please specify characteristics (in terms of concentration & quantum) of hazard as well as solid wastes and indicate disposal practice adopted for both these categories of water.**

The hazardous waste is disposed through:

- Solid wastes in the mine are in the form of overburden material which comprises of sandstone, conglomerates, sandy and clayey shales.

## **PART - G**

**Impacts of pollution control measures on conservation of natural resources and consequently on coal production.**

The brief summary of Pollution Control Measures taken for this mine is as under:

**G.0** In order to carry out mining operations in an environmentally, friendly and planned manner, the sources of pollution were identified and measures were suggested to keep them within permissible limits.

### **G.1 SOURCES OF AIR POLLUTION**

The likely sources of air pollution are as under:

- Drilling operation;
- Blasting operation;
- Loading and transportation of Coal/OB;
- Wind Erosion of Coal Stock/OB Dumps;
- Haul Road/Coal Transportation Roads;
- Exhaust from vehicular movement.

#### **G.1.1 Measures for Control of Air Pollution**

For control of air pollution, measures suggested are:

- Tree plantation along the periphery of the quarry, CHP, around other service buildings along the sides of permanent haul road and open land;
- Regular cleaning of transportation road.

#### **G.1.2 Implementation Status**

- Water is sprinkled by mobile sprinkler (maintained by HOE contractor)

### **G.2 WATER POLLUTION**

#### **G.2.1 Sources of Water Pollution**

The identified sources of water pollution are as under:

TDS and TSS due to mining operation present in the mine water (mainly coal particles);

#### **G.2.2 Water Pollution Control Measures**

- The main pollutant responsible for water pollution is suspended solids. Sedimentation pond should be provided to take care of this pollutant.

#### **G.2.3 Implementation Status**

Settling Tank has been provided.

### **G.3 NOISE POLLUTION**

#### **G.3.1 Sources of Noise Pollution**

The sources of noise pollution are as under:

- Drilling Operation;
- Blasting Operation;
- Operation of CHP;

- Operation of Shovels and Dumpers;
- Workshop.

### **G.3.2 Noise Pollution Control Measures suggested**

The measures for reduction of noise level as envisaged in the EMP are as under:

- Selection of mining equipments so as to keep noise level below 85 dB(A);
- Provision of Ear Plugs for operators exposed for long duration of time;
- Provision of green belt around Workshop, CHP and other sensitive areas;
- Limitation of blasting operation between 12.00 Noon to 2.30 PM.

### **G.3.3 Implementation Status**

Refer to Noise level monitoring reports.

## **PART - H**

### **Additional investment proposal for environmental protection in the area:**

**H.1** The project has incurred an expenditure on the followings in connection with environmental management in the area:

Sl. No.	Particulars	Amount (Rs)
1.	Water Cess	-
2.	Consent Fees	-
3.	Air, Water, Noise Quality Monitoring	Done by CMPDIL
4.	Water pollution control measures	-
5.	Air pollution control measures	-

### **H.2 Future Programme**

The project has incurred an expenditure on the following in connection with environmental management in the area.

Sl. No.	Particulars	Amount (Rs)
1.	Water Cess	-
2.	Consent Fees	-
3.	Air, Water, Noise Quality Monitoring	Done by CMPDIL
4.	Water pollution control measures	-
5.	Air pollution control measures	-

## **PART - I**

### **Miscellaneous**

**Any other particulars in respect of environmental protection & abatement of pollution.**

**STRICTLY RESTRICTED  
FOR COMPANY USE ONLY**

The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

# **ENVIRONMENT STATEMENT**

**APRIL 2020 - MARCH 2021**



**SEPTEMBER 2021**

## **AREA HOSPITAL**

**PATHAKHERA AREA**

**WESTERN COALFIELDS LTD.**



# ***ENVIRONMENT STATEMENT***

***FOR THE YEAR***

***APRIL, 2020 – MARCH, 2021***

**AREA HOSPITAL,  
PATHAKHERA AREA,  
WCL**

**CMPDI, RI-IV, NAGPUR**

**A. Environment Statement (Form-V) Uploaded in XGN on 30/09/2021 19:22:28 from IP No: 103.246.40.227.**

**B. 126826-Area Hospital , Wcl - Pathakhera Area accepts the LEGAL responsibility  
and undertakes that the furnished information is CORRECT & ACCURATE.**

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- I INTRODUCTION**
  - 1.1 GENESIS**
  - 1.2 NEED OF ENVIRONMENTAL STATEMENT**
- II SALIENT FEATURES OF THE PROJECT**
- III BASIS FOR ENVIRONMENTAL STATEMENT**
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  - Annexure**
  - A1 BIO MEDICAL WASTE RETURN 2020**

## CHAPTER-I INTRODUCTION

### 1.1 GENESIS

Industrial pollution in our country is on increase and is creating a high-risk environment. Various legislations viz. The water (Prevention & Control of Pollution) Act, 1974, The Air (Prevention & Control of Pollution) Act, 1981 and The Environment (Protection) Act, 1986 have come into force and organization created to combat pollution. It is being realized that industry and environment should go hand – in – hand so as to achieve sustainable development. Also over the years, awareness has brought in realization to consider environmental protection a bare necessity. Consideration of environmental factors at par with production helps in minimizing material losses and also in reduction of liabilities in the long run.

### 1.2 NEED OF ENVIRONMENTAL STATEMENT

Environmental Audit is a technique being introduced for integrating the interest of the industry and the environment so that these could be mutually supportive. This technique is basically a part of industry's internal procedures in meeting their responsibilities towards better environment. Also the policy statement for abatement of pollution by the Govt. of India provides for submission of environmental statement by all concerned industries, which would subsequently evolve into an environmental audit. A notification under the Environment (Protection) Rules, 1986 has been issued on April 22, 1993, requiring industries to submit an environmental statement for the financial Year ending on March 31 in Form V to the concerned State Pollution Control Boards on or before September 30 every Year beginning 1993. The Department of Company Affairs also agreed to include this requirement as a part of the Director's Annual Report.

The submission of an environmental statement is applicable to the following.

- i) Those who require consent under the water (Prevention & Control of Pollution) Act, 1974:
- ii) Those who require consent under the Air (Prevention & Control of Pollution) Act, 1981: and
- iii) Those who require authorization under Hazardous wastes (Management & Handling) Rules, 1989.

Vide Gazette Notification No. G.S.R.3289(E) dated 13th March, 1992, the Ministry of Environment & Forests, Govt. of India have made provisions for Mandatory Environmental Statement as follows :

“Every person carrying on an industry, operation or process requiring consent under Section 25 of the Water Act, 1974 or under Section 21 of the Air Act, 1981 or both or authorization under the Hazardous Water Rules, 1989 issued under the Environmental Protection Act, 1986 shall submit an Environmental Audit Report for the financial year ending 31st March in Form – V to the concerned State Pollution Control Board on or before 30<sup>th</sup> September every year beginning 1993”.

In order to comply with the statutory requirement as well as to maintain corporate image in the region recognizing the importance of comprehensive structural mechanism to ensure that the mining activities do not cause any effects on environment.

**CHAPTER-II**  
**SALIENT FEATURES OF THE PROJECT**

1.	Name of the Project	Area Hospital
2.	Location	WCL, Pathakhera Area, Distt : Baitul State : Madhya Pradesh
3.	Bed capacity	60 Beds
4.	Water Consumption	20.90 KLD

## BASIS FOR ENVIRONMENTAL STATEMENT

Water is being used in Domestic purpose and Flushing purpose. Adequate facilities for treatment of used water from hospital has been made. There are provision of septic tank & soak pit arrangement to deal with domestic effluent, This is 02 stage Sewage treatment as per IS 2470 part I&II - 1985. The preliminary treatment is being given through septic tank and the secondary treatment is being given through soil absorption system. Hence, this is the standard practice and we are following the system. The arrangement does not allow any sewage to get mixed into any natural water course without treatment.

No Activity in the Hospital Services made any kind of air emission.

## CHAPTER – IV

### FORM – V PART - “A”

Sl. No.	Particulars	
1.	Name and address of the Unit	<b>AREA HOSPITAL</b>
(a)	Place	WCL, Pathakhera Area
(b)	District	Betul
(c)	Telephone No.	6263751057
2	Industry category	Category “Orange”
3	Bed Capacity	60 Bed
4	Year of Establishment	1979

### PART - “B”

#### WATER & RAW MATERIALS CONSUMPTION Table – (a) Water consumption on Usage Pattern

Sl.No.	Particulars	
1.	Water Consumption (kl/day) :	
(a)	<b>Health care Service Unit :</b>	
(i)	Flushing	6.600 KLD
(ii)	Fire fighting	-
(b)	<b>Domestic Purpose</b>	
(i)	Domestic Use	13.800 KLD
(ii)	Green Belt / Plantation	0.500 KLD
	<b>TOTAL</b>	<b>20.900 KLD</b>

**Table – (b) WATER CONSUMPTION AGAINST PRODUCTION (INCLUDING RECYCLED)**

Name of the Product	Water Consumption per unit of product (including recycled)	
	During the Previous Financial Year 2019-20	During the Current Financial Year 2020-21
Not Applicable as it not a Production Unit, but a <b>Health care Service Unit</b>	-	-

**RAW MATERIAL CONSUMPTION AGAINST PRODUCTION**

Name of the Raw Material	Name of the Product	Consumption of Raw Material per Unit of Product	
		During the Previous Financial Year 2019-20	During the Current Financial Year 2020-21
Not Applicable as it not a Production Unit, but a <b>Health care Service Unit</b>  -		-	-

a



**PART - "C"**

**POLLUTION GENERATED**

(Parameters specified in the consent issued)

1.	Pollutants	Quantity of Pollution Generated	Percentage variation from prescribed standards with reasons
(a)	Water	18 KLD	Adequate Sewage Treatment has been Provided.
(b)	Air	N.A	No Activity in the Hospital Services made any kind of air emission.

**PART - "D-1"**

**HAZARDOUS WASTE**

(As specified under Hazardous Waste/ Management & Handling Rules, 2016)

1.	Hazardous Waste	Total Quantity (kg)	
		During the Previous Financial Year 2019-20	During the Current Financial Year 2020-21
(a)	From Process	Nil	Nil
(b)	From Pollution Control Facilities	Nil	Nil

(As specified under Bio Medical Waste (Management & Handling) Rules, 2016)

1.	Bio Medical Waste Category	Total Quantity (kg)		Remark
		During the Previous Financial Year 2019	During the Current Financial Year 2020	
(a)	Yellow Category	3823.03 kg	3009.93 kg	All category of Bio medical waste has been handed over toera Authorized BMW Operator. i.e. M/s. Environment Protection Corporation
(b)	Red Category	819.22 kg	1231.34 kg	
(c)	White	327.69 kg	492.53 kg	
(d)	Blue Category	491.53 kg	738.80 kg	

## SOLID WASTES

		Total Quantity	
		During the Previous Financial Year 2019-20	During the Current Financial Year 2020-21
(a)	From Process	Nil	Nil
(b)	From Pollution Control Facility	Nil	Nil
(c)	(i) Quantity recycled or re-utilized within the unit dumped on quarry void	Nil	Nil
	(ii) Sold	Nil	Nil
	(iii) Disposed (as external dumps)	Nil	Nil

PLEASE SPECIFY CHARACTERISTICS (IN TERMS OF CONCENTRATION & QUANTUM) OF HAZARD AS WELL AS SOLID WASTES AND INDICATE DISPOSAL PRACTICE ADOPTED FOR BOTH THESE CATEGORIES OF WATER.

Not Applicable As No Hazardous waste has been generated from Hospital

**PART - "G"**

**IMPACTS OF POLLUTION CONTROL MEASURES**

The brief summary of Pollution Control Measures taken is as under:

- G.1** Energy Efficient LED lights have been installed in Hospital.
- G.2** Adequate facilities for treatment of used water from Hospital has been made. There are provision of septic tank & soak pit arrangement to deal with domestic effluent, This is 02 stage Sewage treatment as per IS 2470 part I&II - 1985. The preliminary treatment is being given through septic tank and the secondary treatment is being given through soil absorption system. Hence, this is the standard practice and we are following the system. The arrangement does not allow any sewage to get mixed into any natural water course without treatment.
- G.3** NOISE POLLUTION CONTROL: Strict implementation of The Noise Pollution (Regulation and Control) Rules, 2000 has been carried out.

**PART - "H"**

**ADDITIONAL INVESTMENT PROPOSAL FOR ENVIRONMENTAL PROTECTION  
IN THE AREA:**

**H.1** The project has incurred an expenditure on the followings in connection with environmental management in the area:

S.No	ACCOUNT HEAD	CURRENT YEAR 2020-21	PROGRESSIVE
<b>A</b>	<b><u>ENVIRONMENT CAPITAL HEAD</u></b>		
1	Air Pollution Control	Nil	Nil
2	Water Pollution Control	Nil	Rs 2.50 Lacs (up to 31.03.2021)
<b>B</b>	<b><u>ENVIRONMENT REVENUE HEAD</u></b>		
1	Garden Maintenance	Rs. 1.45 Lacs	Rs. 2.85 Lacs ( up to 31.03.21)
2	Legal Expenses consent fees Paid	Nil	Rs4.40 Lacs (up to 31-08-2021)

**H.2 Future Programme**

- Regular pollution control measures will continue to be followed.

Sl. No.	Particulars	Amount (Rs)
1.	Air pollution control measure	-
2.	Water Pollution control measures	-
3.	Consent Fees	As Per MPPCB Rate Notification
7	Any Other Expenditure	Nil

**PART - "I"**

**MISCELLANEOUS**

**ANY OTHER PARTICULARS IN RESPECT OF ENVIRONMENTAL PROTECTION  
& ABATEMENT OF POLLUTION.**

**AUDITOR'S COMMENT**

1. All Provisions of Biomedical Waste (Management & Handling) Rules 2016 shall be followed.



वेस्टर्न कोलफील्ड्स लिमिटेड  
Western Coalfields Limited  
(मिनीरतन कंपनी) (A Miniratna Company)  
(कोल इंडिया लि. की अनुषंगी कंपनी)  
(A Subsidiary of Coal India Limited)



क्षेत्रीय पर्यावरण अधिकारी कार्यालय पाथाखेड़ा क्षेत्र  
पर्यावरण विभाग

Email: env.pkd.wcl@gmail.com  
CIN: U10100MH1975GO1018626

Office of Area Environment Officer Pathakhera Area  
Environment Department

Phone/FAX: 07146-270455/ 07146-270163

फॉ-न वेस्टर्न कोलफील्ड्स लिमिटेड पाथाखेड़ा- 460449

Regd. Off: WESTERN COALFIELDS LIMITED, PATHAKHERA - 460449

संदर्भ संख्या/Ref.No.: WCL/GM/PKD/ENV /2021 / 750

दिनांक/Date: 28.06.2021

प्रति ,

क्षेत्रीय अधिकारी

क्षेत्रीय कार्यालय

म प्र प्रदूषण नियंत्रण बोर्ड, छिंदवारा रीजन,

मुंल्ला जी पेट्रोल पम्प के सामने

परसिया रोड , छिंदवारा ( म प्र )

पिन - 480001

विषय - Regarding submission of Annual Return for the period from 1<sup>st</sup> January 2020 to 31<sup>st</sup> December 2020 under Bio - Medical Waste ( Management & Handling ) rules 2016 in respect of Area Hospital , Pathakhera Area.

Dear Sir,

With reference to above subject, please find enclosed herewith the Annual Return under Bio - Medical Waste ( Management & Handling ) rules 2018 in form -IV for the Period from 1<sup>st</sup> January 2020 to 31 December 2020 in respect of Area hospital , Pathakhera Area , WCL for your kind perusal .

भवदीय

जे. पी. देशपांडे  
28/6/21  
क्षेत्रीय पर्यावरण अधिकारी  
पाथाखेरा क्षेत्र

Encl- as above.

प्रतिलिपि ,

1- क्षेत्रीय महाप्रबंधक , पाथाखेरा क्षेत्र

2- महाप्रबंधक/ विभागाध्यक्ष ( पर्या ) वेकोलि नागपुर

क्षेत्रीय चिकित्सा अधिकारी , पाथाखेरा क्षेत्र

o/c.



**Form - IV**  
(See rule 13)  
**ANNUAL REPORT**

[To be submitted to the prescribed authority on or before 30<sup>th</sup> June every year for the period from January to December of the preceding year, by the occupier of health care facility (HCF) or common bio-medical waste treatment facility (CBWTF)]

Sl. No.	Particulars	Details
1.	Particulars of the Occupier	AREA HOSPITAL, M/s WESTERN COALFIELDS LIMITED, PATHAKHERA AREA.
	(i) Name of the authorized person (occupier or operator of facility)	Dr. Jayashree Moghe, Chief Medical Officer, WCL, Pathakhara Area
	(ii) Name of HCF or CBMWTF	M/s. Environment Protection Corporation
	(iii) Address for Correspondence	
	(iv) Address of Facility	Area Hospital, WCL, Pathakhara Area, Betul Dist. M.P. 460449
	(v) Tel. No, Fax. No	6263751045, 7987104114
	(vi) E-mail ID	env.pkd.wcl@gmail.com
	(vii) URL of Website	http://www.westerncoal.gov.in/
	(viii) GPS coordinates of HCF or CBMWTF	
	(ix) Ownership of HCF or CBMWTF	(State Government or Private or Semi Govt. or any other) <b>Any other</b> (Government of India Undertaking)
	(x). Status of Authorization under the Bio-Medical Waste (Management and Handling) Rules	Applied for Bio-Medical Waste Authorization
	(xi). Status of Consents under Water Act and Air Act	Applied for Air , Water CTE & CTO
2.	Type of Health Care Facility	
	(i) Bedded Hospital	No. of Beds <u>60</u>
	(ii) Non-bedded hospital	
	(Clinic or Blood Bank or Clinical Laboratory or Research Institute or Veterinary Hospital or any other)	
	(iii) License number and its date of expiry	
3.	Details of CBMWTF	
	(i) Number healthcare facilities covered by CBMWTF	N.A. As WCL is Occupier
	(ii) No of beds covered by CBMWTF	
	(iii) Installed treatment and disposal capacity of CBMWTF	

	(iv) Quantity of biomedical waste treated or disposed by CBMWTF	:				
4.	Quantity of waste generated or disposed in Kg per annum (on monthly average basis)	:	Yellow Category : 3009.93			
			Red Category : 1231.34			
			White : 492.53			
			Blue Category : 738.80			
			General Solid waste :			
5	Details of the Storage, treatment, transportation, processing and Disposal Facility					
(i) Details of the on-site storage facility	:	Size : 2 m X 2 m				
		Capacity : 150 kg				
		Provision of on-site storage : (cold storage or any other provision)				
(ii) Details of the treatment or disposal facilities	:	Type of treatment equipment	No of units	Capacity Kg/ day	Quantity treated or disposed in kg per annum	
		-Incinerators -Plasma Pyrolysis -Autoclaves -Microwave -Hydroclave -Shredder -Needle tip cutter or destroyer -Sharps encapsulation or concrete pit Deep burial pits: -Chemical disinfection: -Any other treatment equipment:	04	0.3		
(iii) Quantity of recyclable wastes sold to authorized recyclers after treatment in kg per annum.	:	Red Category (like plastic, glass etc.) Nil.				
(iv) No of vehicles used for collection and transportation of biomedical waste	:	N.A.				
(v) Details of incineration ash and ETP sludge generated and disposed	:	N.A.				



	during the treatment of wastes in Kg per annum		
	(vi) Name of the Common Bio- Medical Waste Treatment Facility Operator through which wastes are disposed of	:	M/s Environment Protection Corporation
	(vii) List of member HCF not handed over bio-medical waste.		N.A.
6	Do you have bio-medical waste management committee? If yes, attach minutes of the meetings held during the reporting period		Yes , Minutes enclosed.
7	Details trainings conducted on BMW		
	(i) Number of trainings conducted on BMW Management.		04
	(ii) number of personnel trained		10
	(iii) number of personnel trained at the time of induction		04
	(iv) number of personnel not undergone any training so far		00
	(v) Whether standard manual for training is available?		No
	(vi) any other information		----
8	Details of the accident occurred during the year		Nil
	(i) Number of Accidents occurred		---
	(ii) Number of the persons affected		---
	(iii) Remedial Action taken (Please attach details if any)		---
	(iv) Any Fatality occurred, details.		---
9.	Are you meeting the standards of air Pollution from the incinerator? How many times in last year could not met the standards?		N.A.
	Details of Continuous online emission monitoring systems installed		N.A.
10	Liquid waste generated and treatment methods in place. How many times you have not met the standards in a year?		Disinfection provided Nil
11	Is the disinfection method or sterilization meeting the log 4		Yes.

	standards? How many times you have not met the standards in a year?		
12	Any other relevant information		Nil

Certified that the above report is for the period from **01-01-2020** to **31-12-2020**



**Name and Signature of the Head of the Institution**

**DR. JAYASHREE MOGHE,**  
**CHIEF MEDICAL OFFICER,**  
**WCL, PATHAKHERA AREA**

**Date:** 25/06/2021

**Place:** Pathakhera

APPROX. QUANTITY OF BIO MEDICAL WASTE FOR THE YEAR 1st JAN' 2020 TO 31st DEC'2020 TREATED AND DISPOSED OFF THROUGH: M/S ENVIRONMENT PROTECTION CORPORATION, CBWTF, SEHORE							
NAME OF INSTITUTION		WCL Pathakheda, Sarni -Betul					
ADDRESS		Pathakheda Area, Betul					
OWNER/OCCUPIER		94256-57665					
NO OF BEDS		120					
EMAIL ID		0					
CONTACT NO		94256-57665					
PERIOD	BEDS	CAT. OF BMW					
		YELLOW	RED	BLUE	WHITE	LIQUID WASTE	
		in kgs	in kgs	in kgs	in kgs	in ltrs	
		INCINERABLE	AUTOCLAVABLE				
Jan-20	120	369.60	151.20	90.72	60.48		672.00
Feb-20	120	334.95	137.03	82.22	54.81		609.00
Mar-20	120	231.00	94.50	56.70	37.80		420.00
Apr-20	120	23.10	9.45	5.67	3.78		42.00
May-20	120	24.26	9.92	5.95	3.97		44.10
Jun-20	120	75.08	30.71	18.43	12.29		136.50
Jul-20	120	127.05	51.98	31.19	20.79		231.00
Aug-20	120	242.55	99.23	59.54	39.69		441.00
Sep-20	120	358.05	146.48	87.89	58.59		651.00
Oct-20	120	369.60	151.20	90.72	60.48		672.00
Nov-20	120	381.15	155.93	93.56	62.37		693.00
Dec-20	120	473.55	193.73	116.24	77.49		861.00
ANNUAL TOTAL		3009.93	1231.34	738.80	492.53		
MONTHLY AVERAGE		250.83	102.61	61.57	41.04		
DAILY AVERAGE		8.25	3.37	2.02	1.35		

INCINERATION	3009.93
AUTOCLAVING	2462.67

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# **ENVIRONMENT STATEMENT**

**APRIL 2020 - MARCH 2021**



**SEPTEMBER 2021**

## **CHATTARPUR I & II UG MINE**

**PATHAKHEDA AREA**

**WESTERN COALFIELDS LTD.**

# ***ENVIRONMENT STATEMENT***

***FOR THE YEAR***

***APRIL 2020 – MARCH 2021***

## **CHHATARPUR - I & II U/G MINE, WCL**

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## **CHAPTER-I**

### **INTRODUCTION**

#### **1.1 GENESIS**

Industrial pollution in our country is on increase and is creating a high-risk environment. Various legislations viz. The water (Prevention & Control of Pollution) Act, 1974, The Air (Prevention & Control of Pollution) Act, 1981 and The Environment (Protection) Act, 1986 have come into force and organization created to combat pollution. It is being realized that industry and environment should go hand – in – hand so as to achieve sustainable development. Also over the years, awareness has brought in realization to consider environmental protection a bare necessity. Consideration of environmental factors at par with production helps in minimizing material losses and also in reduction of liabilities in the long run.

#### **1.2 NEED OF ENVIRONMENTAL STATEMENT**

Environmental Audit is a technique being introduced for integrating the interest of the industry and the environment so that these could be mutually supportive. This technique is basically a part of industry's internal procedures in meeting their responsibilities towards better environment. Also the policy statement for abatement of pollution by the Govt. of India provides for submission of environmental statement by all concerned industries, which would subsequently evolve into an environmental audit. A notification under the Environment (Protection) Rules, 1986 has been issued on April 22, 1993, requiring industries to submit an environmental statement for the financial Year ending on March 31 in Form V to the concerned State Pollution Control Boards on or before September 30 every Year beginning 1993. The Department of Company Affairs also agreed to include this requirement as a part of the Director's Annual Report.

The submission of an environmental statement is applicable to the following.

- i) Those who require consent under the water (Prevention & Control of Pollution) Act, 1974:
- ii) Those who require consent under the Air (Prevention & Control of Pollution) Act, 1981: and
- (iii) Those who require authorization under Hazardous wastes (Management & Handling) Rules, 1989.

Vide Gazette Notification No. G.S.R.3289(E) dated 13th March, 1992, the Ministry of Environment & Forests, Govt. of India have made provisions for Mandatory Environmental Statement as follows :

“Every person carrying on an industry, operation or process requiring consent under Section 25 of the Water Act, 1974 or under Section 21 of the Air Act, 1981 or both or authorization under the Hazardous Water Rules, 1989 issued under the Environmental Protection Act, 1986 shall submit an Environmental Audit Report for the financial year ending 31st March in Form – V to the concerned State Pollution Control Board on or before 30th September every year beginning 1993”.

In order to comply with the statutory requirement as well as to maintain corporate image in the region recognizing the importance of comprehensive structural mechanism to ensure that the mining activities do not cause any effects on environment.

### **WCL, PATHAKHERA AREA**

## CHAPTER-II - SALIENT FEATURES OF THE PROJECT

1.	Name of the Project	Chhatarpur I & II UG Mine
2.	Location	WCL, Pathakhhera Area, Distt : Betul State : Madhya Pradesh
3.	Production	0.3809 MTPA
4.	Water Consumption	690 KLD
5.	Raw Material Consumption :	
(a)	Explosive	1,90,478.3 kg
(b)	Detonator	3,68,487 Nos.
(c)	Electricity	69,68,000 kWh

### WCL, PATHAKHERA AREA

A. Environment Statement (Form-V) Uploaded in XGN on 23/09/2021 16:59:16 from IP No: 103.247.4.93.

B. 23926-Chattarpur I & II U.G Coal Mine Project(825.338 Hect.),Betul accepts the LEGAL responsibility and undertakes that the furnished information is CORRECT & ACCURATE.



## **CHAPTER – III**

### **BASIS FOR ENVIRONMENTAL STATEMENT**

#### **3.1 WATER QUALITY**

Water is not directly used during mining for coal production except for dust suppression and firefighting. It percolates into working area during mining operation. However, water is consumed for other purposes; mainly for domestic supply, dust suppression, green belt development. Part “B” of the proforma contains detailed break-up of water consumption. Pollution discharged into water has been calculated on the basis of water analysis and identified water pollutants. The main pollutants in mine water are suspended solids. Chhatarpur - I & II UG does not contain HEMM, Hence no Effluent from Workshop is being generated.

#### **3.2. AIR QUALITY**

Ambient air quality is monitored to study the level of air pollution.

#### **3.3 MINING**

Mining activity produces less quantity of any hazardous waste; and it is shown in Part “D” of Form – V.

#### **3.4 POLLUTION CONTROL METHODS**

The pollution abatement measures for the sake of Environmental Statement are:

Dust suppression by water spray;

Asphalted Road to prevent fugitive emission

Afforestation;

Items identical under Part “H” of the proforma are those items which the Consultants have felt necessary which is also true for Part “I” in order to help Western Coalfields Limited to organize their abatement efforts for performing mining activities without adversely affecting the environment.

### **WCL, PATHAKHERA AREA**

**A. Environment Statement (Form-V) Uploaded in XGN on 23/09/2021 16:59:16 from IP No: 103.247.4.93.**

**B. 23926-Chattarpur I & II U.G Coal Mine Project(825.338 Hect.),Betul accepts the LEGAL responsibility and undertakes that the furnished information is CORRECT & ACCURATE.**

## CHAPTER – IV

### FORM – V

#### PART - “A”

Sl. No.	Particulars	
1.	Name and address of the Mine	<b>Chhatarpur I &amp; II UG Mine</b>
(a)	Place	WCL, Pathakhera Area
(b)	District	Betul
(c)	Telephone No.	07146-290026
(d)	FAX No.	07146-270566
2.	Date of last Environmental Statement Report submitted	29 <sup>th</sup> May, 2020
3.	Industry category Primary-(STC Code) Secondary-(STC Code)	Category “A”
4.	Approved Production Capacity	1.0 MTY
5.	Year of Establishment	1992

#### PART - “B”

#### WATER & RAW MATERIALS CONSUMPTION

Table – (a) Water consumption on Usage Pattern

Sl.No.	Particulars	
1.	Water Consumption (kl/day) :	
(a)	<b>Process – Industrial :</b>	
(i)	Dust suppression	140 KLD
(ii)	Fire fighting	
(iii)	Workshop and others	
(iv)	CHP Beneficiation	
(b)	<b>Domestic Purpose</b>	
(i)	Domestic Use (from other source)	41 KLD
(ii)	Plantation	509 KLD
	<b>TOTAL</b>	<b>690 KLD</b>

#### WCL, PATHAKHERA AREA

A. Environment Statement (Form-V) Uploaded in XGN on 23/09/2021 16:59:16 from IP No: 103.247.4.93.

B. 23926-Chattarpur I & II U.G Coal Mine Project(825.338 Hect.),Betul accepts the LEGAL responsibility and undertakes that the furnished information is CORRECT & ACCURATE.

**Table – (b)**  
**WATER CONSUMPTION AGAINST PRODUCTION (INCLUDING RECYCLED)**

Name of the Product	Water Consumption per unit of product (including recycled)	
	<b>During the Previous Financial Year 2019-20</b>	<b>During the Current Financial Year 2020-21</b>
COAL	451.857 l/t of coal produced	554.317 l/t of coal produced

**RAW MATERIAL CONSUMPTION AGAINST PRODUCTION (INCLUDING RECYCLED)**

Name of the Raw Material	Name of the Product	Consumption of Raw Material per Unit of Product	
		<b>During the Previous Financial Year 2019-20</b>	<b>During the Current Financial Year 2020-21</b>
<b>Explosive</b>	<b>Coal</b>	0.5032 kg/t	0.5000 kg/t
<b>Detonator</b>	<b>Coal</b>	0.955 No/t	0.967 No/t
<b>Electricity (Industrial)</b>	<b>Coal</b>	15.42 kWh/t	18.29 kWh/t

**PART - “C”**  
**POLLUTION GENERATED**  
(PParameters specified in the consent issued)

1.	Pollutants	Quantity of Pollution Generated	Percentage variation from prescribed standards with reasons
(a)	Water	See Annexure-A2	Values of parameters are within permissible limits.
(b)	Air	See Annexure-A1	Levels of air pollutants are within permissible limits.

**WCL, PATHAKHERA AREA**

**PART - "D"**

**HAZARDOUS WASTE**

(As specified under Hazardous Waste/ Management & Handling Rules, 1989)

1.	Hazardous Waste	Total Quantity (kg)	
		During the Previous Financial Year 2019-20	During the Current Financial Year 2020-21
(a)	From Process	Nil	Nil
(b)	From Pollution Control Facilities	Nil	Nil

**PART - "E"**

**SOLID WASTES**

		Total Quantity	
		During the Previous Financial Year 2019-20	During the Current Financial Year 2020-21
(a)	From Process	Nil	Nil
(b)	From Pollution Control Facility	Nil	Nil
(c)	(i) Quantity recycled or re-utilised within the unit dumped on quarry void	Nil	Nil
	(ii) Sold	Nil	Nil
	(iii) Disposed (as external dumps)	Nil	Nil

**(It is an underground mine)**

**WCL, PATHAKHERA AREA**

**PART - "F"**

PLEASE SPECIFY CHARACTERISTICS (IN TERMS OF CONCENTRATION & QUANTUM) OF HAZARD AS WELL AS SOLID WASTES AND INDICATE DISPOSAL PRACTICE ADOPTED FOR BOTH THESE CATEGORIES OF WATER.

The hazardous waste is disposed through:

- i. Oil and grease is disposed off through authorized/registered recyclers/re-refiner if any.
- ii. Total quantity of solid wastes generated in the case of underground mine is very less, almost negligible.

**PART - "G"**

**IMPACTS OF POLLUTION CONTROL MEASURES ON CONSERVATION OF NATURAL RESOURCES AND CONSEQUENTLY ON COAL PRODUCTION.**

The brief summary of Pollution Control Measures taken for this mine is as under:

**G.0** In order to carry out mining operations in an environmentally, friendly and planned manner, the sources of pollution were identified and measures implemented to keep them within permissible limits.

**G.1 SOURCES OF AIR POLLUTION**

The likely sources of air pollution are as under:

- Loading and transportation of Coal;
- Coal Stockyard

**G.1.1 Measures for Control of Air Pollution**

Air Pollution Control Measures :

- Unit shall maintain pollution control facilities properly to avoid discharge of Pollutants in the environment.
- Separate officer should be posted at unit level to look after the matters related to environment.

**G.1.2 Implementation Status**

- This is an underground mine. All the mining activities i.e. Drilling, Blasting, Loading, unloading, transportation of coal from district to surface has been carried out in the closed condition w.r.t. an open cast mine where all the activities are being carried out in exposed circumstances.
- Pollution Control facilities established and maintained properly.
- Separate Environment Management Cell has been established.

**WCL, PATHAKHERA AREA**

- Spray points have been provided in conveyor belt to prevent emission due to transportation.
- CHHATARPUR - I & II UG mine does not contain Coal Crushing facility which automatically prevent addition of pollution load to atmosphere.
- All the internal roads have been black topped and regularly maintained to prevent fugitive emission.
- Total **29,231 Nos** of trees have been planted in the Mine Campus to check the emission and leading towards compensate the carbon emission through natural process.

## **G.2 WATER POLLUTION**

### **G.2.1 Sources of Water Pollution**

The identified sources of water pollution are as under:

TDS and TSS due to mining operation present in the mine water (mainly coal particles);

### **G.2.2 Water Pollution Control Measures**

- The main pollutant responsible for water pollution is suspended solids. Sedimentation pond should be provided to take care of this pollutant.

### **G.2.3 Implementation Status**

Mine water is retained in the mine sump / Sedimentation Tank of 1.89 MLD capacity before discharged to nearby surface water / nullah or used internally.

Water Treatment Plant is provided with 1.7 MGD Capacity.

## **G.3 NOISE POLLUTION**

### **G.3.1 Sources of Noise Pollution**

The sources of noise pollution are as under:

- Drilling Operation;
- Ventilation System (Fan);

### **G.3.2 Noise Pollution Control Measures suggested**

The measures for reduction of noise level as envisaged in the EMP are as under :

- Selection of mining equipments so as to keep noise level below 85 dB(A);
- Provision of green belt around Workshop, CHP and other sensitive areas.

### **G.3.3 Implementation Status**

Mining equipment are kept in good condition to reduce noise level.

Refer Annexure-A3 for Noise level monitoring reports.

## **WCL, PATHAKHERA AREA**

**PART - "H"**

**ADDITIONAL INVESTMENT PROPOSAL FOR ENVIRONMENTAL PROTECTION IN  
THE AREA:**

**H.1** The project has incurred an expenditure (in FY 2020-21) on the followings in connection with environmental management in the area:

<b>Sl. N.</b>	<b>Heads</b>	<b>Chhatarpur – I &amp;II</b>	
		Current Year 2020-21	Progressive
<b>A</b>	<b>ENVIRONMENT CAPITAL ACCOUNT HEAD</b>		
1	Reclamation	Nil	-----
2	Air Pollution control	Nil	Rs 68.50 Lacs (Up to 31.03. 2021)
3	Water pollution control	Nil	Rs 11.10 Lacs (Up to 31.03. 2021)
4	Other (Water Meter)	Nil	Rs 0.89 Lacs (Up to 31.03. 2021)
<b>B</b>	<b>ENVIRONMENT REVENUE ACCOUNT HEAD</b>		
1	Afforestation	Nil	From 1997-98 Rs 5.91 Lacs (upto 31.03. 2021)
2	Monitoring (Air + Water +Noise)	Rs. 27.68 Lacs	From 01.04.2010 Rs 180.19 Lacs (upto 31.03. 2021)
3	Water Cess	Nil	From 01.04.2010 Rs 2.83 Lacs (upto 31.03. 2021)
5	Consent renewal fees, Air & Water)	Nil	From 31.03.2011 Rs. 88.08 Lacs Upto 31.10.2022
6	Repair of Road	Rs. 19.37 Lacs	Rs. 132.39 Lacs Upto 31.03.2021
7	Ground Water Monitoring Charges	Rs. 8.57 Lacs	From 01.04.2015 Rs. 13.80 Lacs Upto 31.03.2021
8	Environment statement/ Audit.	Nil	From 01.04.2010 Rs 8,25,418.00 Upto 31.03.2021

**WCL, PATHAKHERA AREA**

## **H.2 Future Programme**

Regular pollution control measures will continue to be followed.

Sl. No.	Particulars	Amount (Rs)
1.	Air pollution control measure	Rs 10,00,000
2.	Water Cess	-
3.	Consent Fees	As per MPPCB Rate Notification
4.	Air, Water, Noise Quality Monitoring, etc.	Rs 30,00,000.00
5.	Plantation	-
7	Any Other Expenditure if any	Nil

## **PART - "I"**

### **MISCELLANEOUS**

**ANY OTHER PARTICULARS IN RESPECT OF ENVIRONMENTAL PROTECTION & ABATEMENT OF POLLUTION.**

### **AUDITOR'S COMMENT**

1. Good Housekeeping Practices shall be adopted.
2. Desilting of Siltation Pond and Garland Drain shall be carried out.
3. Installation of Dust Suppression Measures shall be carried out.

## **WCL, PATHAKHERA AREA**



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holding an official position in the CIL / Government

## ENVIRONMENTAL MONITORING REPORT

### CHATTARPUR I & II UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



SEPTEMBER 2020


#### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

#### CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
---	--------------------	--

TEST REPORT NO.	RIN/TR/SEPTEMBER-20/79	DATE OF ISSUE	30.10.2020
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance		
NAME OF AREA	PATHARKHERA	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	CHATTARPUR I & II UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SUBSTATION-CHATTARPUR I UG: PKCUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
04.09.20	05.09.20	92	70	29	11	BDL	CLEAR, MODERATE BREEZE
28.09.20	29.09.20	99	65	34	10	BDL	CLEAR CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SAM OFFICE: PKCUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
04.09.20	05.09.20	72	51	28	14	BDL	CLEAR, MODERATE BREEZE
28.09.20	29.09.20	82	63	24	12	BDL	CLEAR CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SUBSTATION-CHATTARPUR II UG: PKCUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
04.09.20	05.09.20	92	65	29	11	BDL	CLEAR, MODERATE BREEZE
28.09.20	29.09.20	88	72	36	14	BDL	CLEAR CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

CHATTARPUR VILLAGE: PKCUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
04.09.20	05.09.20	70	49	23	10	BDL	CLEAR, MODERATE BREEZE
28.09.20	29.09.20	72	55	20	13	BDL	CLEAR CALM
NAAQS, 2009		-	100	60	80	80	

*Labimkhane*

Analysed by

*Deepanshu*

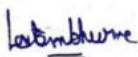
Deepanshu sahu  
Authorised Signatory

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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE-I UG: PKCUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
04.09.2020	8.1	40	44	BDL
27.09.2020	8.24	48	44	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

MINE WATER DISCHARGE II UG: PKCUW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
04.09.2020	7.90	24	32	BDL
27.09.2020	8.01	28	36	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

FAN HOUSE-I UG:		PKCUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
Sep-20	03.09.2020	60.8	59.3
Sep-20	26.09.2020	61.3	59.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

FAN HOUSE-II UG:		PKCUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
Sep-20	03.09.2020	62.1	61.4
Sep-20	26.09.2020	61.7	59.6
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY:		PKCUN3	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
Sep-20	03.09.2020	43.7	42.5
Sep-20	26.09.2020	42.3	40.9
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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## ENVIRONMENTAL MONITORING REPORT

# CHATTARPUR I & II UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MARCH 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
---	--------------------	--

TEST REPORT NO.	RIN/TR/MAR-21/79	DATE OF ISSUE	28.04.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> : IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	PATHARKHERA	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	CHATTARPUR I & II UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SUBSTATION-CHATTARPUR I UG: PKCUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09.03.2021	10.03.2021	291	188	42	15	BDL	Clear/Lightbreeze
23.03.2021	24.03.2021	273	194	38	13	BDL	Clear/Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SAM OFFICE: PKCUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09.03.2021	10.03.2021	260	190	36	12	BDL	Clear/Lightbreeze
23.03.2021	24.03.2021	282	181	40	10	BDL	Clear/Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	Clear / Calm

SUBSTATION-CHATTARPUR II UG: PKCUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09.03.2021	10.03.2021	281	196	40	14	BDL	Clear/Lightbreeze
23.03.2021	24.03.2021	297	184	35	13	BDL	Clear/Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

CHATTARPUR VILLAGE: PKCUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09.03.2021	10.03.2021	128	96	27	9	BDL	Clear/Lightbreeze
23.03.2021	24.03.2021	134	84	33	11	BDL	Clear/Lightbreeze
NAAQS, 2009		-	100	60	80	80	

*Labhume*

*[Signature]*  
Authorised Signatory

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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O & G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE-I UG: PKCUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
09.03.2021	8.43	24	28	BDL
23.03.2021	8.32	28	32	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

MINE WATER DISCHARGE II UG: PKCUW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
09.03.2021	7.5	30	36	BDL
23.03.2021	7.63	28	40	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

  
Analysed by

 u  
Authorised Signatory

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**NOISE LEVEL MONITORING DATA**

FAN HOUSE-I UG:		PKCUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
MAR'21	09.03.2021	69.4	68.1
MAR'21	30.03.2021	70.4	69.7
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

FAN HOUSE-II UG:		PKCUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
MAR'21	09.03.2021	68.8	67.9
MAR'21	30.03.2021	69.9	68.8
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY:		PKCUN3	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
MAR'21	09.03.2021	44.6	43.4
MAR'21	30.03.2021	43.2	42.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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# **ENVIRONMENT STATEMENT**

**APRIL 2020 - MARCH 2021**



**SEPTEMBER 2021**

## **REGIONAL WORKSHOP**

**PATHAKHERA AREA**

**WESTERN COALFIELDS LTD.**

***ENVIRONMENT STATEMENT***

***FOR THE YEAR***

***APRIL, 2020 – MARCH, 2021***

**REGIONAL WORKSHOP,  
WCL**

**CMPDI, RI-IV, NAGPUR**

**A. Environment Statement (Form-V) Uploaded in XGN on 30/09/2021 19:05:40 from IP No: 103.246.40.227.**  
**B. 30713-Western Coal Fields Ltd.(Regional Workshop Pathakheda), Betul accepts the LEGAL responsibility and undertakes that the furnished information is CORRECT & ACCURATE.**

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**3.2 Air Quality**

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## CHAPTER-I INTRODUCTION

### 1.1 GENESIS

Industrial pollution in our country is on increase and is creating a high-risk environment. Various legislations viz. The water (Prevention & Control of Pollution) Act, 1974, The Air (Prevention & Control of Pollution) Act, 1981 and The Environment (Protection) Act, 1986 have come into force and organization created to combat pollution. It is being realized that industry and environment should go hand – in – hand so as to achieve sustainable development. Also over the years, awareness has brought in realization to consider environmental protection a bare necessity. Consideration of environmental factors at par with production helps in minimizing material losses and also in reduction of liabilities in the long run.

### 1.2 NEED OF ENVIRONMENTAL STATEMENT

Environmental Audit is a technique being introduced for integrating the interest of the industry and the environment so that these could be mutually supportive. This technique is basically a part of industry's internal procedures in meeting their responsibilities towards better environment. Also the policy statement for abatement of pollution by the Govt. of India provides for submission of environmental statement by all concerned industries, which would subsequently evolve into an environmental audit. A notification under the Environment (Protection) Rules, 1986 has been issued on April 22, 1993, requiring industries to submit an environmental statement for the financial Year ending on March 31 in Form V to the concerned State Pollution Control Boards on or before September 30 every Year beginning 1993. The Department of Company Affairs also agreed to include this requirement as a part of the Director's Annual Report.

The submission of an environmental statement is applicable to the following.

- i) Those who require consent under the water (Prevention & Control of Pollution) Act, 1974:
- ii) Those who require consent under the Air (Prevention & Control of Pollution) Act, 1981: and
- iii) Those who require authorization under Hazardous wastes (Management & Handling) Rules, 1989.

Vide Gazette Notification No. G.S.R.3289(E) dated 13th March, 1992, the Ministry of Environment & Forests, Govt. of India have made provisions for Mandatory Environmental Statement as follows :

“Every person carrying on an industry, operation or process requiring consent under Section 25 of the Water Act, 1974 or under Section 21 of the Air Act, 1981 or both or authorization under the Hazardous Water Rules, 1989 issued under the Environmental Protection Act, 1986 shall submit an Environmental Audit Report for the financial year ending 31st March in Form – V to the concerned State Pollution Control Board on or before 30th September every year beginning 1993”.

In order to comply with the statutory requirement as well as to maintain corporate image in the region recognizing the importance of comprehensive structural mechanism to ensure that the mining activities do not cause any effects on environment.

1.	Name of the Project	REGIONAL WORKSHOP
2.	Location	WCL, Pathakhhera Area, Distt : Baitul State : Madhya Pradesh
3.	Production	
(a)	Roof Bolt	1,46,269 Nos
(b)	Bearing Plate	1,47,975 Nos
4.	Water Consumption	4.07 KLD
5.	Raw Material Consumption :	
(a)	TMT Bar (20mm dia.)	7,43,480 kg
(b)	M.S. PLATE (8 mm thickness)	2,67,010 kg
(c)	Electricity	13,14,000 kWh
6.	Consent & Authorization Details	
(a)	Consent to Operate under Air & Water Act	Consent To Operate No.: AW-58275, dated 06/10/2018 Valid upto : 24/09/2023
(b)	Consent to Operate under Hazardous Waste Rules	Consent To Operate No.: H-57240, dated 25/08/2018 Valid upto : 10/07/2023

## CHAPTER – III

### BASIS FOR ENVIRONMENTAL STATEMENT

#### 3.1 Water Quality

Water is not directly used during production. Hence, No Effluent has been generated due to Production. Water is being used in Domestic purpose and Flushing purpose. Adequate facilities for treatment of used water from RWS has been made. There are provision of septic tank & soak pit arrangement to deal with domestic effluent. This is 02 stage Sewage treatment as per IS 2470 part I&II - 1985. The preliminary treatment is being given through septic tank and the secondary treatment is being given through soil absorption system. Hence, this is the standard practice and we are following the system. The arrangement does not allow any sewage to get mixed into any natural water course without treatment.

#### 3.2. Air Quality

The only Air Pollution source is the fugitive emission.

Following are the Pollution Control Measures:

1. Adequate greenbelt has been developed to control the fugitive emission.
2. Asphaltting of Road has been carried out to check the fugitive emission.
3. All the Operations have been carried out under the properly covered industrial shed.

#### 3.3 Hazardous Waste:

Welding Machine produces very less quantity of any hazardous waste i.e. Burnt Oil; and it is shown in Part "D" of Form – V.

**FORM – V**  
**PART - “A”**

Sl. No.	Particulars	
1.	Name and address of the Unit	<b>Regional Workshop</b>
(a)	Place	WCL, Pathakhera Area
(b)	District	Baitul
(c)	Telephone No.	7987104114
2	Industry category Secondary-(STC Code)	Small Scale Industry As the Capital Investment is below Rs. 10 Crore
3	Year of Establishment	1987

**WATER & RAW MATERIALS CONSUMPTION**  
**Table – (a) Water consumption on Usage Pattern**

Sl.No.	Particulars	
1.	Water Consumption (kl/day) :	
<b>(a)</b>	<b>Operation – Industrial :</b>	
(ii)	Fire fighting	-
<b>(b)</b>	<b>Domestic Purpose</b>	
(i)	Domestic Use	2.38 KLD
(ii)	Flushing	1.19 KLD
(iii)	Green Belt / Plantation	0.5 KLD
	<b>TOTAL</b>	<b>4.07 KLD</b>



**Table – (b) WATER CONSUMPTION AGAINST PRODUCTION  
(INCLUDING RECYCLED)**

Name of the Product	Water Consumption per unit of product (including recycled)	
	During the Previous Financial Year 2019-20	During the Current Financial Year 2020-21
Roof Bolt	Nil	Nil
Bearing Plate	Nil	Nil

**RAW MATERIAL CONSUMPTION AGAINST PRODUCTION**

Name of the Raw Material	Name of the Product	Consumption of Raw Material per Unit of Product	
		During the Previous Financial Year 2019-20	During the Current Financial Year 2020-21
TMT Bar (20mm dia.)	Roof Bolt	4.31 kg / Piece	5.08 kg / Piece
M.S. PLATE (8 mm thickness)	Bearing Plate	1.45 kg / Piece	1.80 kg / Piece

## POLLUTION GENERATED

1.	Pollutants	Quantity of Pollution Generated	Percentage variation from prescribed standards with reasons
(a)	Water (Domestic Sewage)	4.07 KLD	Adequate Sewage Treatment has been Provided.
(b)	Air	N.A	Only Fugitive Emission.

## HAZARDOUS WASTE

1.	Hazardous Waste (Burnt Oil)	Total Quantity (kg)	
		During the Previous Financial Year 2019-20	During the Current Financial Year 2020-21
(a)	From Operation of Welding Machine	250 Liters	90 Liters
(b)	From Pollution Control Facilities	Nil	Nil

## SOLID WASTES

		Total Quantity	
		During the Previous Financial Year 2019-20	During the Current Financial Year 2020-21
(a)	From Operation	Nil	Nil
(b)	From Pollution Control Facility	Nil	Nil
(c)	(i) Quantity recycled or re-utilized within the unit dumped on quarry void	Nil	Nil
	(ii) Sold	Nil	Nil
	(iii) Disposed (as external dumps)	Nil	Nil

PLEASE SPECIFY CHARACTERISTICS (IN TERMS OF CONCENTRATION & QUANTUM) OF HAZARD AS WELL AS SOLID WASTES AND INDICATE DISPOSAL PRACTICE ADOPTED FOR BOTH THESE CATEGORIES OF WATER.

- (i) Used Oil is disposed off through authorized/registered recyclers/refiner if any.
- (ii) Total quantity of solid wastes generated in the case of Regional Workshop is negligible.

## IMPACTS OF POLLUTION CONTROL MEASURES ON CONSERVATION OF NATURAL RESOURCES AND CONSEQUENTLY ON COAL PRODUCTION.

**G.0** In order to carry out operations in an environmentally, friendly and planned manner, the sources of pollution were identified and measures were suggested to keep them within permissible limits.

The likely sources of air pollution are as under:

- ### G.1.1 Measures for Control of Air Pollution

For control of air pollution, measures suggested are:

1. Adequate greenbelt shall be developed to control the fugitive emission.
2. Asphaltting of Road shall be carried out to check the fugitive emission.
3. All the Operations shall be carried out under the properly covered industrial shed.

1. Adequate greenbelt has been developed to control the fugitive emission.
2. Asphalting of Road has been carried out to check the fugitive emission.
3. All the Operations have been carried out under the properly covered industrial shed.
- 4.

### G.2.1 Sources of Water Pollution

Water is not directly used during production. Hence, No Effluent has been generated due to Production. Water is being used in Domestic purpose and Flushing purpose.

Adequate facilities for treatment of used water from RWS has been made. There are provision of septic tank & soak pit arrangement to deal with domestic effluent. This is 02 stage Sewage treatment as per IS 2470 part I&II - 1985. The preliminary treatment is being given through septic tank and the secondary treatment is being given through soil absorption system. Hence, this is the standard practice and we are following the system. The arrangement does not allow any sewage to get mixed into any natural water course without treatment.

Adequate facilities for treatment of used water from RWS has been made. There are provision of septic tank & soak pit arrangement to deal with domestic effluent. This is 02 stage Sewage treatment as per IS 2470 part I&II - 1985. The preliminary treatment is being given through septic tank and the secondary treatment is being given through soil absorption system. Hence, this is the standard practice and we are following the system. The arrangement does not allow any sewage to get mixed into any natural water course without treatment.

### G.3 NOISE POLLUTION

#### G.3.1 Sources of Noise Pollution

The sources of noise pollution are as under:

- Drilling Operation;

#### G.3.2 Noise Pollution Control Measures suggested

The measures for reduction of noise level as envisaged in the EMP are as under :

- Proper maintenance of equipments so as to keep noise level below 75 dB(A);
- Development of green belt around Workshop.
- Provision of PPEs like Ear Plug

#### G.3.3 Implementation Status

- Proper maintenance of equipments have been carried out so as to keep noise level below 75 dB(A);
- Development of green belt around Workshop.
- PPEs like Ear Plug have been provided to Employees, wherever required.

### PART - "H"

#### ADDITIONAL INVESTMENT PROPOSAL FOR ENVIRONMENTAL PROTECTION IN THE AREA:

H.1 The project has incurred an expenditure on the followings in connection with environmental management in the area:

S.No	ACCOUNT HEAD	CURRENT YEAR 2020-21	PROGRESSIVE
<b>A</b>	<b>ENVIRONMENT CAPITAL HEAD</b>		
1	Air Pollution Control	Nil	Nil
2	Water Pollution Control	Nil	Rs 2.50 Lacs (up to 31.03.2021)
<b>B</b>	<b>ENVIRONMENT REVENUE HEAD</b>		
1	Green Belt Development	Nil	Rs. 1.45 Lacs ( up to 31.03.21)
2	Legal Expenses consent fees Paid	Nil	Rs 1.07 Lacs (up to 31-08-2021)
3	Repair of road	Nil	From 2011-12 Rs 1.21 Lacs (Up to 31.03.2021)

## H.2 Future Programme

- Regular pollution control measures will continue to be followed.

Sl. No.	Particulars	Amount (Rs)
1.	Air pollution control measure	-
2.	Water Pollution control measures	-
3.	Consent Fees	As Per MPPCB Rate Notification
4	Any Other Expenditure	Nil

### PART - "I"

#### MISCELLANEOUS

**ANY OTHER PARTICULARS IN RESPECT OF ENVIRONMENTAL PROTECTION  
& ABATEMENT OF POLLUTION.**

#### AUDITOR'S COMMENT

1. Proper housekeeping shall be maintained.

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# **ENVIRONMENT STATEMENT**

**APRIL 2020 - MARCH 2021**



**SEPTEMBER 2021**

## **SARNI UG MINE**

**PATHAKHERA AREA**

**WESTERN COALFIELDS LTD.**



# ***ENVIRONMENT STATEMENT***

***FOR THE YEAR***

***APRIL, 2020 – MARCH, 2021***

## **SARNI U/G MINE, WCL**

**CMPDI, RI-IV, NAGPUR**

**A. Environment Statement (Form-V) Uploaded in XGN on 23/09/2021 17:05:36 from IP No: 103.247.4.93.**

**B. 18268-Sarni UG Coal Mine Project, Betul accepts the LEGAL responsibility  
and undertakes that the furnished information is CORRECT & ACCURATE.**

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## CHAPTER-I INTRODUCTION

### 1.1 GENESIS

Industrial pollution in our country is on increase and is creating a high-risk environment. Various legislations viz. The water (Prevention & Control of Pollution) Act, 1974, The Air (Prevention & Control of Pollution) Act, 1981 and The Environment (Protection) Act, 1986 have come into force and organization created to combat pollution. It is being realized that industry and environment should go hand – in – hand so as to achieve sustainable development. Also over the years, awareness has brought in realization to consider environmental protection a bare necessity. Consideration of environmental factors at par with production helps in minimizing material losses and also in reduction of liabilities in the long run.

### 1.2 NEED OF ENVIRONMENTAL STATEMENT

Environmental Audit is a technique being introduced for integrating the interest of the industry and the environment so that these could be mutually supportive. This technique is basically a part of industry's internal procedures in meeting their responsibilities towards better environment. Also the policy statement for abatement of pollution by the Govt. of India provides for submission of environmental statement by all concerned industries, which would subsequently evolve into an environmental audit. A notification under the Environment (Protection) Rules, 1986 has been issued on April 22, 1993, requiring industries to submit an environmental statement for the financial Year ending on March 31 in Form V to the concerned State Pollution Control Boards on or before September 30 every Year beginning 1993. The Department of Company Affairs also agreed to include this requirement as a part of the Director's Annual Report.

The submission of an environmental statement is applicable to the following.

- i) Those who require consent under the water (Prevention & Control of Pollution) Act, 1974:
- ii) Those who require consent under the Air (Prevention & Control of Pollution) Act, 1981: and
- iii) Those who require authorization under Hazardous wastes (Management & Handling) Rules, 1989.

Vide Gazette Notification No. G.S.R.3289(E) dated 13th March, 1992, the Ministry of Environment & Forests, Govt. of India have made provisions for Mandatory Environmental Statement as follows :

“Every person carrying on an industry, operation or process requiring consent under Section 25 of the Water Act, 1974 or under Section 21 of the Air Act, 1981 or both or authorization under the Hazardous Water Rules, 1989 issued under the Environmental Protection Act, 1986 shall submit an Environmental Audit Report for the financial year ending 31st March in Form – V to the concerned State Pollution Control Board on or before 30th September every year beginning 1993”.

In order to comply with the statutory requirement as well as to maintain corporate image in the region recognizing the importance of comprehensive structural mechanism to ensure that the mining activities do not cause any effects on environment.

**CHAPTER-II**  
**SALIENT FEATURES OF THE PROJECT**

1.	Name of the Project	Sarni UG Mine
2.	Location	WCL, Pathakhera Area, Distt : Baitul State : Madhya Pradesh
3.	Production	0.0739 MTPA
4.	Water Consumption	204.99 KLD
5.	Raw Material Consumption :	
(a)	Explosive	21,032 kg
(b)	Detonator	46,554 Nos
(c)	Electricity	30,13,000 kWh
6.	Environmental Clearance Details	EC Letter No:- J-11015/195/2008/-IA. II (M) Date:- 02.02.2009

## CHAPTER – III

### BASIS FOR ENVIRONMENTAL STATEMENT

#### 3.1 Water Quality

Water is not directly used during mining for coal production except for dust suppression. It percolates into working area during mining operation. However, water is consumed for other purposes; mainly for domestic supply, industrial supply. Part “B” of the proforma contains detailed break-up of water consumption.

Pollution discharged into water has been calculated on the basis of water analysis and identified water pollutants. The main pollutants in mine water are suspended solids. The other sources of pollution in the effluent from various processes include oil and grease.

#### 3.2. Air Quality

Ambient air quality is monitored to study the level of air pollution.

#### 3.3 Mining

Mining activity produces less quantity of any hazardous waste; and it is shown in Part “D” of Form – V.

#### 3.4 Pollution Control Methods

The pollution abatement measures for the sake of Environmental Statement are :

- (i) Dust suppression by water sprinkling;
- (ii) Conveyor belt coal transport System
- (iii) Afforestation;
- (iv) Water Settling

Items identical under Part “H” of the proforma are those items which the Consultants have felt necessary which is also true for Part “I” in order to help Western Coalfields Limited to organise their abatement efforts for performing mining activities without adversely affecting the environment.

## CHAPTER – IV

### FORM – V PART - “A”

Sl. No.	Particulars	
1.	Name and address of the Mine	<b>Sarni UG Mine</b>
(a)	Place	WCL, Pathakhera Area
(b)	District	Baitul
(c)	Telephone No.	07146-270757
(d)	FAX No.	07146-270455
2	Industry category Primary-(STC Code) Secondary-(STC Code)	Category “A”
3	Production Capacity	0.720 MTPA
4	Year of Establishment	1979
5	Date of last Environmental Statement Report submitted	5 <sup>th</sup> June, 2020

### PART - “B”

#### WATER & RAW MATERIALS CONSUMPTION

**Table – (a) Water consumption on Usage Pattern**

Sl.No.	Particulars	
1.	Water Consumption (kl/day) :	
(a)	<b>Process – Industrial :</b>	
(i)	Dust suppression	150.00 KLD
(ii)	Fire fighting	-
(iii)	Workshop and others	-
(iv)	CHP Beneficiation	-
(b)	<b>Domestic Purpose</b>	
(i)	Domestic Use	4.99 KLD
(ii)	Green Belt / Plantation	50.00 KLD
	<b>TOTAL</b>	<b>204.99 KLD</b>

**Table – (b) WATER CONSUMPTION AGAINST PRODUCTION (INCLUDING RECYCLED)**

Name of the Product	Water Consumption per unit of product (including recycled)	
	During the Previous Financial Year 2019-20	During the Current Financial Year 2020-21
COAL	660.34 l/t of coal produced	847.89 l/t of coal produced

**RAW MATERIAL CONSUMPTION AGAINST PRODUCTION**

Name of the Raw Material	Name of the Product	Consumption of Raw Material per Unit of Product	
		During the Previous Financial Year 2019-20	During the Current Financial Year 2020-21
<b>Explosive</b>	<b>Coal</b>	0.3198 kg/t	0.2842 kg/t
<b>Detonator</b>	<b>Coal</b>	0.6940 No/t	0.6292 No/t
<b>Electricity (Industrial)</b>	<b>Coal</b>	24.0847 kWh/t	40.7272 kWh/t



**PART - "C"**

**POLLUTION GENERATED**

(Parameters specified in the consent issued)

1.	Pollutants	Quantity of Pollution Generated	Percentage variation from prescribed standards with reasons
(a)	Water	See Annexure-A2	Values of parameters are within permissible limits.
(b)	Air	See Annexure-A1	Levels of air pollutants are within permissible limits.

**PART - "D"**

**HAZARDOUS WASTE**

(As specified under Hazardous Waste/ Management & Handling Rules, 1989)

1.	Hazardous Waste	Total Quantity (kg)	
		During the Previous Financial Year 2019-20	During the Current Financial Year 2020-21
(a)	From Process	Nil	Nil
(b)	From Pollution Control Facilities	Nil	Nil

**PART - "E"**  
**SOLID WASTES**

		Total Quantity	
		During the Previous Financial Year 2019-20	During the Current Financial Year 2020-21
(a)	From Process	Nil	Nil
(b)	From Pollution Control Facility	Nil	Nil
(c)	(i) Quantity recycled or re-utilized within the unit dumped on quarry void	Nil	Nil
	(ii) Sold	Nil	Nil
	(iii) Disposed (as external dumps)	Nil	Nil

**(It is an underground mine)**

**PART - "F"**

**PLEASE SPECIFY CHARACTERISTICS (IN TERMS OF CONCENTRATION & QUANTUM) OF HAZARD AS WELL AS SOLID WASTES AND INDICATE DISPOSAL PRACTICE ADOPTED FOR BOTH THESE CATEGORIES OF WATER.**

The hazardous waste is disposed through:

- (i) Oil and grease is disposed off through authorized/registered recyclers/re-refiner if any.
- (ii) Total quantity of solid wastes generated in the case of underground mine is very less, almost negligible.

**PART - "G"**

**IMPACTS OF POLLUTION CONTROL MEASURES ON CONSERVATION OF NATURAL RESOURCES AND CONSEQUENTLY ON COAL PRODUCTION.**

The brief summary of Pollution Control Measures taken for this mine is as under:

**G.0** In order to carry out mining operations in an environmentally, friendly and planned manner, the sources of pollution were identified and measures were suggested to keep them within permissible limits.

**G.1 SOURCES OF AIR POLLUTION**

The likely sources of air pollution are as under:

- Drilling operation;
- Blasting operation;
- Loading and transportation of Coal/OB;

**G.1.1 Measures for Control of Air Pollution**

For control of air pollution, measures suggested are:

- Water sprinkling should be done before drilling holes and on coal faces.
- Sprinkling of water on coal before transportation;
- Spraying of water on coal stocks.
- Asphalting of Internal Road.
- Regular cleaning of coal transportation road.

### **G.1.2 Implementation Status**

- Water is sprinkled on coal faces before drilling and transportation and on coal stocks.
- Regular water sprinkling is done before drilling and on coal faces.
- 15 nos. fixed sprinklers have been provided for spraying water at coal stockyard, CHP, Coal Transportation road and at Weigh Bridge.

## **G.2 WATER POLLUTION**

### **G.2.1 Sources of Water Pollution**

The identified sources of water pollution are as under:

- TDS and TSS due to mining operation present in the mine water (mainly coal particles);

### **G.2.2 Water Pollution Control Measures**

- The main pollutant responsible for water pollution is suspended solids. Sedimentation pond should be provided to take care of this pollutant.

### **G.2.3 Implementation Status**

- Mine water is retained in the mine sump / Sedimentation Tank before discharged to nearby surface water / nullah or used internally.
- Sedimentation tank with 0.96 MGD Capacity is provided for mine water. Pressure filter with 0.378 MLD is also provided for treatment of mine water and supplying for domestic uses.

## **G.3 NOISE POLLUTION**

### **G.3.1 Sources of Noise Pollution**

The sources of noise pollution are as under:

- Drilling Operation;
- Ventilation System (Fan);

### **G.3.2 Noise Pollution Control Measures suggested**

The measures for reduction of noise level as envisaged in the EMP are as under :

- Selection of mining equipments so as to keep noise level below 85 dB(A);
- Provision of green belt around Workshop, CHP and other sensitive areas.

- Mining equipment are kept in good condition to reduce noise level.
- Refer Annexure-A3 for Noise level monitoring reports .
- Tree plantation of about 3300 Nos. have been done in mine premise.

**ADDITIONAL INVESTMENT PROPOSAL FOR ENVIRONMENTAL PROTECTION**  
**IN THE AREA:**

S.No	ACCOUNT HEAD	CURRENT YEAR 2020-21	PROGRESSIVE
<b>A</b>	<b><u>ENVIRONMENT CAPITAL HEAD</u></b>		
1	Reclamation (HEMM)	NA	NA
2	Air Pollution Control	Nil	Rs 0.20 Lacs
3	Water Pollution Control	Nil	Rs 14.68 Lacs (up to 31.03.2021)
4	Compensation against damage of forest growth and Afforestation measures including compensatory afforestation.	Nil	Rs. 20 Lacs (up to 31.03.2021)
5	Other ( Water meter)	Nil	Rs. 0.95 Lacs (up to 31.03.2021)
<b>B</b>	<b><u>ENVIRONMENT REVENUE HEAD</u></b>		
1	Afforestation	----	From 1997-98 Rs. 1.87 Lacs ( up to 31.03.21)
2	Air , Water & Noise Monitoring Charges	Rs. 25.60 Lacs	From 2007-08 Rs. 148.94 Lacs ( up to 31.03.21)
3	Legal Expenses consent fees Paid	Nil	Rs. 63.40 Lacs (up to 31-08-2021)
4	Other (Water Cess) Paid	Nil	From 01.01-2009 Rs 2.02 Lacs (upto 31.03.2021)
5	Environment Audit Statement (up to 31.03.2019 )	Nil	From 2007-08 Rs 5.98 Lacs (Up to 31.03.2021)
6	Ground Water Monitoring Charges	Rs. 2.92 Lacs	From 2015-16 Rs 9.16 Lacs (Up to 31.03.2021)
7	Repair of road	Rs. 14.64 Lacs	From 2011-12 Rs 46.94 Lacs (Up to 31.03.2021)

## H.2 Future Programme

- Regular pollution control measures will continue to be followed.

Sl. No.	Particulars	Amount (Rs)
1.	Air pollution control measure	-
2.	Water Cess	-
3.	Consent Fees	As Per MPPCB Rate Notification
4.	Air, Water, Noise Quality Monitoring, etc. for Year 2019-20	15, 00,000.00
5.	Water Pollution control measures	-
6.	Ground water Monitoring	1,50,000.00
7.	Any Other Expenditure	Nil

### PART - "I"

#### MISCELLANEOUS

ANY OTHER PARTICULARS IN RESPECT OF ENVIRONMENTAL PROTECTION & ABATEMENT OF POLLUTION.

#### AUDITOR'S COMMENT

1. Regular Cleaning of Siltation pond and garland drain shall be carried out.
2. Water Spraying on coal conveyor system is required to be improve.

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## ENVIRONMENTAL MONITORING REPORT

### SARNI UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



SEPTEMBER 2020


#### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

#### CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/SEPTEMBER-20/80	DATE OF ISSUE	30.10.2020
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance		
NAME OF AREA	PATHARKHERA	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	SARNI UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SUBSTATION SARNI UG: PKSUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
02.09.20	03.09.20	99	66	27	15	BDL	CLEAR CALM
27.09.20	28.09.20	89	60	30	12	BDL	CLEAR CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

NEAR DY.CME OFFICE: PKSUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
02.09.20	03.09.20	79	55	20	16	12	CLEAR CALM
27.09.20	28.09.20	74	62	26	14	BDL	CLEAR CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

GM OFFICE ENTRANCE GATE: PKSUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
02.09.20	03.09.20	87	59	29	10	BDL	CLEAR CALM
27.09.20	28.09.20	90	51	27	11	BDL	CLEAR CALM
NAAQS, 2009		-	100	60	80	80	

PATHAKHERA COLONY: PKSUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
02.09.20	03.09.20	82	55	23	12	BDL	CLEAR CALM
27.09.20	28.09.20	87	63	26	10	BDL	CLEAR CALM
NAAQS, 2009		-	100	60	80	80	

*Labimkhera*

Analysed by

*Deepanshu*


Deepanshu sahu  
Authorised Signatory

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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: PKS UW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
02.09.2020	7.60	22	32	BDL
27.09.2020	7.87	24	28	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



Analysed by


Deepanshu sahu  
Authorised Signatory

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**NOISE LEVEL MONITORING DATA**

FAN HOUSE:		PKSUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
Sep-20	03.09.2020	59.9	58.6
Sep-20	26.09.2020	58.9	57.8
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY(SARNI)		PKSUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
Sep-20	03.09.2020	42.5	41.6
Sep-20	26.09.2020	41.3	39.9
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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## ENVIRONMENTAL MONITORING REPORT

### SARNI UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MARCH 2021

### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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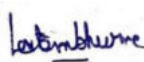
TEST REPORT NO.		RIN/TR/MAR-21/80		DATE OF ISSUE		28.04.2021	
NAME OF CUSTOMER		GM(ENV.), WCL(HQ), NAGPUR					
CUSTOMER LETTER REFERENCE NO.		WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20					
TEST REQUIRED		SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance					
NAME OF AREA		PATHARKHERA		SAMPLING PLAN : LQR 47			
NAME OF PROJECT		SARNI UG					
SAMPLE DESCRIPTION		Air sample					
SAMPLING METHOD : LSOP 4							

SUBSTATION SARNI UG: PKSUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
02.03.2021	03.03.2021	278	193	38	16	12	Clear/ Lightbreeze
28.03.2021	29.03.2021	259	184	32	14	11	Clear/ Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

NEAR DY.CME OFFICE: PKSUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
02.03.2021	03.03.2021	257	182	36	13	BDL	Clear/ Lightbreeze
28.03.2021	29.03.2021	264	193	30	15	11	Clear/ Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

GM OFFICE ENTRANCE GATE: PKSUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
02.03.2021	03.03.2021	155	92	25	15	BDL	Clear/ Lightbreeze
28.03.2021	29.03.2021	143	88	30	13	BDL	Clear/ Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

PATHAKHERA COLONY: PKSUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
02.03.2021	03.03.2021	137	81	28	13	BDL	Clear/ Lightbreeze
28.03.2021	29.03.2021	129	79	32	15	BDL	Clear/ Lightbreeze
NAAQS, 2009		-	100	60	80	80	



Analysed by



Deepanshu sahu

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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: PKSUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
02.03.2021	7.99	26	32	BDL
16.03.2021	8.1	24	36	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

FAN HOUSE:		PKSUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
MAR'21	09.03.2021	69.8	68.9
MAR'21	30.03.2021	69.8	69.1
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY(SARNI)		PKSUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
MAR'21	09.03.2021	44.2	43.7
MAR'21	30.03.2021	44.9	43.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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# **ENVIRONMENT STATEMENT**

**APRIL 2020 - MARCH 2021**



**SEPTEMBER 2021**

## **SHOBHAPUR UG MINE PATHAKHERA AREA WESTERN COALFIELDS LTD.**

***ENVIRONMENT STATEMENT***

***FOR THE YEAR***

***APRIL, 2020 – MARCH, 2021***

**SHOBHAPUR U/G MINE,  
WCL**



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## **CHAPTER-I INTRODUCTION**

### **1.1 GENESIS**

Industrial pollution in our country is on increase and is creating a high-risk environment. Various legislations viz. The water (Prevention & Control of Pollution) Act, 1974, The Air (Prevention & Control of Pollution) Act, 1981 and The Environment (Protection) Act, 1986 have come into force and organization created to combat pollution. It is being realized that industry and environment should go hand – in – hand so as to achieve sustainable development. Also over the years, awareness has brought in realization to consider environmental protection a bare necessity. Consideration of environmental factors at par with production helps in minimizing material losses and also in reduction of liabilities in the long run.

### **1.2 NEED OF ENVIRONMENTAL STATEMENT**

Environmental Audit is a technique being introduced for integrating the interest of the industry and the environment so that these could be mutually supportive. This technique is basically a part of industry's internal procedures in meeting their responsibilities towards better environment. Also the policy statement for abatement of pollution by the Govt. of India provides for submission of environmental statement by all concerned industries, which would subsequently evolve into an environmental audit. A notification under the Environment (Protection) Rules, 1986 has been issued on April 22, 1993, requiring industries to submit an environmental statement for the financial Year ending on March 31 in Form V to the concerned State Pollution Control Boards on or before September 30 every Year beginning 1993. The Department of Company Affairs also agreed to include this requirement as a part of the Director's Annual Report.

The submission of an environmental statement is applicable to the following.

- i) Those who require consent under the water (Prevention & Control of Pollution) Act, 1974:
- ii) Those who require consent under the Air (Prevention & Control of Pollution) Act, 1981: and
- iii) Those who require authorization under Hazardous wastes (Management & Handling) Rules, 1989.

**ENV. STATEMENT  
SHOBHAPUR UG**

Vide Gazette Notification No. G.S.R.3289(E) dated 13th March, 1992, the Ministry of Environment & Forests, Govt. of India have made provisions for Mandatory Environmental Statement as follows :

“Every person carrying on an industry, operation or process requiring consent under Section 25 of the Water Act, 1974 or under Section 21 of the Air Act, 1981 or both or authorisation under the Hazardous Water Rules, 1989 issued under the Environmental Protection Act, 1986 shall submit an Environmental Audit Report for the financial year ending 31st March in Form – V to the concerned State Pollution Control Board on or before 30th September every year beginning 1993”.

In order to comply with the statutory requirement as well as to maintain corporate image in the region recognizing the importance of comprehensive structural mechanism to ensure that the mining activities do not cause any effects on environment.

**CHAPTER-II  
SALIENT FEATURES OF THE PROJECT**

1.	Name of the Project	Shobhapur UG Mine
2.	Location	WCL, Pathakhera Area, Distt : Baitul State : Madhya Pradesh
3.	Production	1,56,156 Te for FY 2020-21
4.	Water Consumption	75.085 KLD
5.	Raw Material Consumption :	
(a)	Explosive	53,689 kg
(b)	Detonator	1,43,822 Nos.
(c)	Electricity	29,53,000 kWh
6.	Environmental Clearance Details	EC Letter No:- J- 11015/ 236/2005/- IA. II(M) Date:- 04.10.2006

## **CHAPTER – III**

### **BASIS FOR ENVIRONMENTAL STATEMENT**

#### **3.1 Water Quality**

Water is not directly used during mining for coal production except for dust suppression. It percolates into working area during mining operation. However, water is consumed for other purposes; mainly for domestic supply, industrial supply. Part “B” of the proforma contains detailed break-up of water consumption.

Pollution discharged into water has been calculated on the basis of water analysis and identified water pollutants. The main pollutants in mine water are suspended solids. The other sources of pollution in the effluent from various processes include oil and grease.

#### **3.2. Air Quality**

Ambient air quality is monitored to study the level of air pollution.

#### **3.3 Mining**

Mining activity produces less quantity of any hazardous waste; and it is shown in Part “D” of Form – V.

#### **3.4 Pollution Control Methods**

The pollution abatement measures for the sake of Environmental Statement are :

- (i) Dust suppression by water spray;
- (ii) Afforestation;
- (iii) Water Settling

Items identical under Part “H” of the proforma are those items which the Consultants have felt necessary which is also true for Part “I” in order to help Western Coalfields Limited to organize their abatement efforts for performing mining activities without adversely affecting the environment.

## CHAPTER – IV

### FORM – V

#### PART - “A”

Sl. No.	Particulars	
1.	Name and address of the Mine	<b>Shobhapur UG Mine</b>
(a)	Place	WCL, Pathakhera Area
(b)	District	Baitul
(c)	Telephone No.	07146-270064, 270566
(d)	FAX No.	07146-270566
2	Industry category Primary-(STC Code) Secondary-(STC Code)	Category “A”
3	Approved Production Capacity	0.600 MTPA
4	Year of Establishment	1975
5	Date of last Environmental Statement Report submitted	07 <sup>th</sup> June , 2020

#### PART - “B”

### WATER & RAW MATERIALS CONSUMPTION

**Table – (a) Water consumption on Usage Pattern**

Sl.No.	Particulars	
1.	Water Consumption (kl/day) :	
<b>(a)</b>	<b>Process – Industrial :</b>	
(i)	Dust suppression	56.000 KLD
(ii)	Fire fighting	-
(iii)	Workshop and others	-
(iv)	CHP Beneficiation	-
<b>(b)</b>	<b>Domestic Purpose</b>	
(i)	Domestic Use	14.085 KLD
(ii)	Green Belt / Plantation	5.000 KLD
	<b>TOTAL</b>	<b>75.085 KLD</b>

**Table – (b) WATER CONSUMPTION AGAINST PRODUCTION (INCLUDING RECYCLED)**

Name of the Product	Water Consumption per unit of product (including recycled)	
	During the Previous Financial Year 2019-20	During the Current Financial Year 2020-21
COAL	255.019 l/t of coal produced	147.134 l/t of coal produced

**RAW MATERIAL CONSUMPTION**

Name of the Raw Material	Name of the Product	Consumption of Raw Material per Unit of Product	
		During the Previous Financial Year 2019-20	During the Current Financial Year 2020-21
<b>Explosive</b>	<b>Coal</b>	0.3756 kg/t	0.3438 kg/t
<b>Detonator</b>	<b>Coal</b>	1.0220 No/t	0.9210 No/t
<b>Electricity (Industrial)</b>	<b>Coal</b>	16.9537 kWh/t	18.91 kWh/t

**PART - "C"**

**POLLUTION GENERATED**

(Parameters specified in the consent issued)

1.	Pollutants	Quantity of Pollution Generated	Percentage variation from prescribed standards with reasons
(a)	Water	See Annexure-A2	Values of parameters are within permissible limits.
(b)	Air	See Annexure-A1	Levels of air pollutants are within permissible limits.

**PART - "D"**

**HAZARDOUS WASTE**

(As specified under Hazardous Waste/ Management & Handling Rules, 1989)

1.	Hazardous Waste	Total Quantity (kg)	
		During the Previous Financial Year 2019-20	During the Current Financial Year 2020-21
(a)	From Process	Nil	Nil
(b)	From Pollution Control Facilities	Nil	Nil



**PART - "E"**

**SOLID WASTES**

		Total Quantity	
		During the Previous Financial Year 2019-20	During the Current Financial Year 2020-21
(a)	From Process	Nil	Nil
(b)	From Pollution Control Facility	Nil	Nil
(c)	(i) Quantity recycled or re-utilised within the unit dumped on quarry void	Nil	Nil
	(ii) Sold	Nil	Nil
	(iii) Disposed (as external dumps)	Nil	Nil

**(It is an underground mine)**

**PART - "F"**

**PLEASE SPECIFY CHARACTERISTICS (IN TERMS OF CONCENTRATION & QUANTUM) OF HAZARD AS WELL AS SOLID WASTES AND INDICATE DISPOSAL PRACTICE ADOPTED FOR BOTH THESE CATEGORIES OF WATER.**

The hazardous waste is disposed through:

- (i) Oil and grease is disposed off through authorized/registered recyclers/re-refiner if any.
- (ii) Total quantity of solid wastes generated in the case of underground mine is very less, almost negligible.

**PART - "G"**

**IMPACTS OF POLLUTION CONTROL MEASURES ON CONSERVATION OF NATURAL RESOURCES AND CONSEQUENTLY ON COAL PRODUCTION.**

The brief summary of Pollution Control Measures taken for this mine is as under:

**G.0** In order to carry out mining operations in an environmentally, friendly and planned manner, the sources of pollution were identified and measures were suggested to keep them within permissible limits.

**G.1 SOURCES OF AIR POLLUTION**

The likely sources of air pollution are as under:

- Drilling operation;
- Blasting operation;
- Loading and transportation of Coal;

**G.1.1 Measures for Control of Air Pollution**

For control of air pollution, measures suggested are:

- Water sprinkling should be done before drilling holes and on coal faces.
- Sprinkling of water on coal before transportation;
- Spraying of water on coal stocks.
- Regular cleaning of coal transportation road.
- Black topping of Roads

**G.1.2 Implementation Status**

- Water is sprinkled on coal faces before drilling and transportation and on coal stocks.
- Regular water sprinkling is done before drilling and on coal faces.
- 6 nos. fixed sprinklers have been provided to cover 210 m length of road and 2 nos. fixed sprinklers are proposed to be provided to cover 100 m length of road
- Coal Transport by belt conveyor directly to TPS, MPEB Sarni.

**G.2 WATER POLLUTION**

**G.2.1 Sources of Water Pollution**

The identified sources of water pollution are as under:

- TDS and TSS due to mining operation present in the mine water (mainly coal particles);

**G.2.2 Water Pollution Control Measures**

- The main pollutant responsible for water pollution is suspended solids. Sedimentation pond should be provided to take care of this pollutant.

**G.2.3 Implementation Status**

- Mine water is retained in the mine sump / Sedimentation Tank before discharged to nearby surface water / nullah or used internally.
- Water Treatment Plant (Sedimentation and Chlorination) is provided with 1.848 MGD Capacity.

**G.3 NOISE POLLUTION**

**G.3.1 Sources of Noise Pollution**

The sources of noise pollution are as under:

- Drilling Operation;
- Ventilation System (Fan);

**G.3.2 Noise Pollution Control Measures suggested**

The measures for reduction of noise level as envisaged in the EMP are as under:

- Selection of mining equipments so as to keep noise level below 85 dB(A);
- Provision of green belt around SAM Office , Workshop, CHP and other sensitive areas.
-

### **G.3.3 Implementation Status**

- Mining equipment are kept in good condition to reduce noise level.
- Refer Annexure-A3 for Noise level monitoring reports.

### **PART - "H"**

### **ADDITIONAL INVESTMENT PROPOSAL FOR ENVIRONMENTAL PROTECTION IN THE AREA:**

**H.1** The project has incurred an expenditure on the followings in connection with environmental management in the area:

<b>Sl. Particulars</b>	<b>Current</b>	<b>Progressive</b>
<b><u>ENVIRONMENT CAPITAL HEAD</u></b>		
1. Reclamation	Nil	NIL
2. Air pollution	Nil	Rs 0.60 lacs (upto 31.03.2021)
3. Water pollution control	Nil	Rs 6.72 Lacs (upto 31.03.2021)
4. Others (Water meter )	Nil	Rs. 53,026.00 (upto 31.03.2021)
<b><u>ENVIRONMENT REVENUE HEAD</u></b>		
1-Affore station	Nil	Rs. 0.30 Lacs (upto 31.03.2021)
2- Lagal expenses (consent fees)	Rs 6.88. Lacs	Rs. 42.20 Lacs (Upto 31.12.2021)
3- Others (water cess)	Nil	From 01.08.2009 Rs 1,95,126.00 (Upto 31.03.2021)
4 - Environment audit statement	Nil	From 2007-08 Rs 6,11,898.00 (Upto 31.03.21)
5. Air Water Noise, quality Monitoring	Rs. 26.26 Lacs	From 2007-08 Rs 142.85 Lacs (upto 31.03.21)
6. Ground Water Monitoring	Rs. 2.92 Lacs	From 2015-16 Rs. 6.84 Lacs (upto 31.03.21)
7- Repair of roads 31.03.2012	Nil	From 2011-12 Rs 16.44 Lakhs (upto 31.03.21)

## H.2 Future Programme

- Regular pollution control measures will continue to be followed.

Sl. No.	Particulars	Amount (Rs)
1.	Air pollution control measure	-
2.	Water Cess	-
3.	Consent Fees	As per MPPCB Rate Notification
4.	Air, Water, Noise Quality Monitoring, etc.	10,00,000.00
5.	Plantation	-
6.	Ground water Monitoring	1,50,000.00

## PART - "I"

### MISCELLANEOUS

ANY OTHER PARTICULARS IN RESPECT OF ENVIRONMENTAL PROTECTION  
& ABATEMENT OF POLLUTION.

### AUDITOR'S COMMENT

1. Good Housekeeping Shall be maintained.
2. Proper Cleaning of Siltation Pond shall be done.

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## ENVIRONMENTAL MONITORING REPORT

### SHOBHAPUR UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



SEPTEMBER 2020


#### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

#### CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/SEPTEMBER-20/81	DATE OF ISSUE	30.10.2020
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance		
NAME OF AREA	PATHARKHERA	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	SHOBHAPUR UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SAM OFFICE: PKSHUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
03.09.20	04.09.20	99	69	29	10	BDL	CLEAR, LIGHT BREEZE
26.09.20	27.09.20	86	72	25	12	BDL	CLEAR CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SUBSTATION: PKSHUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
03.09.20	04.09.20	96	66	30	15	11	CLEAR, LIGHT BREEZE
26.09.20	27.09.20	90	55	24	13	11	CLEAR CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SHOBHAPUR VILLAGE: PKSHUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
03.09.20	04.09.20	85	54	27	12	BDL	CLEAR, LIGHT BREEZE
26.09.20	27.09.20	79	60	22	14	BDL	CLEAR CALM
NAAQS, 2009		-	100	60	80	80	

SHOBHAPUR COLONY: PKSHUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
03.09.20	04.09.20	68	49	28	13	BDL	CLEAR, LIGHT BREEZE
26.09.20	27.09.20	79	55	32	15	BDL	CLEAR CALM
NAAQS, 2009		-	100	60	80	80	

*Deepanshu*

Analysed by

*Deepanshu*

Deepanshu sahu  
Authorised Signatory

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- 2 This report refers to the values related to the items tested.

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: PKSUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
03.09.2020	7.78	24	36	BDL
25.09.2020	7.79	38	44	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



Analysed by


Deepanshu sahu  
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**NOISE LEVEL MONITORING DATA**

FAN HOUSE:		PKSUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
Sep-20	03.09.2020	62.3	61.7
Sep-20	26.09.2020	61.7	60.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY(SHOBHAPUR):		PKSUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
Sep-20	03.09.2020	42.9	41.3
Sep-20	26.09.2020	40.9	39.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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## ENVIRONMENTAL MONITORING REPORT

### SHOBHAPUR UG

PATHAKHERA AREA

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JOB NO. 4634420035



MARCH 2021


#### Environment Laboratory

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AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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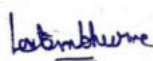
TEST REPORT NO.	RIN/TR/MAR-21/81	DATE OF ISSUE	28.04.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	PATHARKHERA	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	SHOBHAPUR UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SAM OFFICE: PKSHUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
07.03.2021	08.03.2021	277	168	14	17	12	Clear / Lightbreeze
21.03.2021	22.03.2021	289	180	35	15	12	Clear / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SUBSTATION: PKSHUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
07.03.2021	08.03.2021	325	201	42	12	BDL	Clear / Lightbreeze
21.03.2021	22.03.2021	311	183	39	14	12	Clear / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SHOBHAPUR VILLAGE: PKSHUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
07.03.2021	08.03.2021	124	78	24	11	BDL	Clear / Lightbreeze
21.03.2021	22.03.2021	133	89	27	10	BDL	Clear / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

SHOBHAPUR COLONY: PKSHUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
07.03.2021	08.03.2021	136	92	26	15	BDL	Clear / Lightbreeze
21.03.2021	22.03.2021	142	81	33	16	BDL	Clear / Lightbreeze
NAAQS, 2009		-	100	60	80	80	




Analysed by


Deepanshu sahu  
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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE:		PKSUW1		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
07.03.2021	7.6	28	32	BDL
21.03.2021	7.65	32	40	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

FAN HOUSE:		PKSUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
MAR'21	09.03.2021	70.2	69.6
MAR'21	30.03.2021	68.8	67.5
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY(SHOBHAPUR):		PKSUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
MAR'21	09.03.2021	44.7	43.9
MAR'21	30.03.2021	44.6	43.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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# **ENVIRONMENT STATEMENT**

**APRIL 2020 - MARCH 2021**



**SEPTEMBER 2021**

## **TAWA - II UG MINE**

**(PATHAKHEDA AREA)**

## **WESTERN COALFIELDS LTD.**

***ENVIRONMENT STATEMENT***

***FOR THE YEAR***

***APRIL, 2020 – MARCH, 2021***

**TAWA-II UG MINE, WCL**

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## **CHAPTER-I INTRODUCTION**

### **1.1 GENESIS**

Industrial pollution in our country is on increase and is creating a high-risk environment. Various legislations viz. The water (Prevention & Control of Pollution) Act, 1974, The Air (Prevention & Control of Pollution) Act, 1981 and The Environment (Protection) Act, 1986 have come into force and organization created to combat pollution. It is being realized that industry and environment should go hand – in – hand so as to achieve sustainable development. Also over the years, awareness has brought in realization to consider environmental protection a bare necessity. Consideration of environmental factors at par with production helps in minimizing material losses and also in reduction of liabilities in the long run.

### **1.2 NEED OF ENVIRONMENTAL STATEMENT**

Environmental Audit is a technique being introduced for integrating the interest of the industry and the environment so that these could be mutually supportive. This technique is basically a part of industry's internal procedures in meeting their responsibilities towards better environment. Also the policy statement for abatement of pollution by the Govt. of India provides for submission of environmental statement by all concerned industries, which would subsequently evolve into an environmental audit. A notification under the Environment (Protection) Rules, 1986 has been issued on April 22, 1993, requiring industries to submit an environmental statement for the financial Year ending on March 31 in Form V to the concerned State Pollution Control Boards on or before September 30 every Year beginning 1993. The Department of Company Affairs also agreed to include this requirement as a part of the Director's Annual Report.

The submission of an environmental statement is applicable to the following.

- i) Those who require consent under the water (Prevention & Control of Pollution) Act, 1974:
- ii) Those who require consent under the Air (Prevention & Control of Pollution) Act, 1981: and
- iii) Those who require authorization under Hazardous wastes (Management & Handling) Rules, 1989.

**ENV. STATEMENT**  
**TAWA II U/G**

Vide Gazette Notification No. G.S.R.3289(E) dated 13th March, 1992, the Ministry of Environment & Forests, Govt. of India have made provisions for Mandatory Environmental Statement as follows :

“Every person carrying on an industry, operation or process requiring consent under Section 25 of the Water Act, 1974 or under Section 21 of the Air Act, 1981 or both or authorization under the Hazardous Water Rules, 1989 issued under the Environmental Protection Act, 1986 shall submit an Environmental Audit Report for the financial year ending 31st March in Form – V to the concerned State Pollution Control Board on or before 30th September every year beginning 1993”.

In order to comply with the statutory requirement as well as to maintain corporate image in the region recognizing the importance of comprehensive structural mechanism to ensure that the mining activities do not cause any effects on environment.

**CHAPTER-II**  
**SALIENT FEATURES OF THE PROJECT**

1.	Name of the Project	Tawa II UG Mine
2.	Location	WCL, Pathakhera Area, Distt : Baitul State : Madhya Pradesh
3.	Production	3,08,000 Te for the year 2020-21
4.	Water Consumption	375.145 KLD
5.	Raw Material Consumption :	
(a)	Explosive	1,63,201 kg
(b)	Detonator	3,26,403 Nos.
(c)	Electricity	44,87,000 kWh
6.	Environmental Clearance Details	<ul style="list-style-type: none"><li>• EC Letter No:- J- 11015/53/2006/-IA. II(M) Date:- 02.08.2006</li><li>• EC Letter No:- J- 11015/53/2006/-IA. II(M) Date:- 15.01.2021</li></ul>

## **CHAPTER – III**

### **BASIS FOR ENVIRONMENTAL STATEMENT**

#### **3.1 Water Quality**

Water is not directly used during mining for coal production except for dust suppression. It percolates into working area during mining operation. However, water is consumed for other purposes; mainly for domestic supply, industrial supply. Part “B” of the proforma contains detailed break-up of water consumption.

Pollution discharged into water has been calculated on the basis of water analysis and identified water pollutants. The main pollutants in mine water are suspended solids. The other sources of pollution in the effluent from various processes include oil and grease.

#### **3.2. Air Quality**

Ambient air quality is monitored to study the level of air pollution.

#### **3.3 Mining**

Mining activity produces less quantity of any hazardous waste; and it is shown in Part “D” of Form – V.

#### **3.4 Pollution Control Methods**

The pollution abatement measures for the sake of Environmental Statement are :

- (i) Dust suppression by water spray;
- (ii) Afforestation;
- (iii) Water Settling

Items identical under Part “H” of the proforma are those items which the Consultants have felt necessary which is also true for Part “I” in order to help Western Coalfields Limited to organize their abatement efforts for performing mining activities without adversely affecting the environment.

## CHAPTER – IV

### FORM – V

#### PART - “A”

Sl. No.	Particulars	
1.	Name and address of the Mine	<b>Tawa II UG Mine</b>
(a)	Place	WCL, Pathakhera Area
(b)	District	Baitul
(c)	Telephone No.	07146-271363-271433
(d)	FAX No.	-
2	Industry category Primary-(STC Code) Secondary-(STC Code)	Category “A”
3	Approved Production Capacity	0.60 MTY
4	Year of Establishment	2006
5	Date of last Environmental Statement Report submitted	29 <sup>th</sup> May, 2020

#### PART - “B”

### WATER & RAW MATERIALS CONSUMPTION

**Table – (a) Water consumption on Usage Pattern**

Sl.No.	Particulars	
1.	Water Consumption (kl/day) :	
<b>(a)</b>	<b>Process – Industrial :</b>	
(i)	Dust suppression	340.000 KLD
(ii)	Fire fighting	NIL
(iii)	Workshop and others	NIL
(iv)	Green Belt / Plantation	NIL
(v)	CHP Beneficiation	NIL
<b>(b)</b>	<b>Domestic Purpose</b>	
(i)	Domestic Use	35.145 KLD
(ii)	Plantation	NIL
	<b>TOTAL</b>	<b>375.145 KLD</b>

**Table – (b) WATER CONSUMPTION AGAINST PRODUCTION (INCLUDING RECYCLED)**

Name of the Product	Water Consumption per unit of product (including recycled)	
	During the Previous Financial Year 2019-20	During the Current Financial Year 2020-21
COAL	73.920 l/t of coal produced	372.708 l/t of coal produced

**RAW MATERIAL CONSUMPTION AGAINST PRODUCTION**

Name of the Raw Material	Name of the Product	Consumption of Raw Material per Unit of Product	
		During the Previous Financial Year 2019-20	During the Current Financial Year 2020-21
<b>Explosive</b>	<b>Coal</b>	0.4846 kg/t	0.5298 kg/t
<b>Detonator</b>	<b>Coal</b>	1.0004 No/t	1.0597 No/t
<b>Electricity (Industrial)</b>	<b>Coal</b>	10.7272 kWh/t	14.5681 kWh/t

**PART - "C"**

**POLLUTION GENERATED**

(Parameters specified in the consent issued)

1.	Pollutants	Quantity of Pollution Generated	Percentage variation from prescribed standards with reasons
(a)	Water	See Annexure-A2	Values of parameters are within permissible limits.
(b)	Air	See Annexure-A1	Levels of air pollutants are within permissible limits.

**PART - "D"**

**HAZARDOUS WASTE**

(As specified under Hazardous Waste/ Management & Handling Rules, 1989)

1.	Hazardous Waste	Total Quantity (kg)	
		During the Previous Financial Year 2019-20	During the Current Financial Year 2020-21
(a)	From Process	Nil	Nil
(b)	From Pollution Control Facilities	Nil	Nil

**PART - "E"**  
**SOLID WASTES**

		Total Quantity	
		During the Previous Financial Year 2019-20	During the Current Financial Year 2020-21
(a)	From Process	Nil	Nil
(b)	From Pollution Control Facility	Nil	Nil
(c)	(i) Quantity recycled or re-utilised within the unit dumped on quarry void	Nil	Nil
	(ii) Sold	Nil	Nil
	(iii) Disposed (as external dumps)	Nil	Nil

**(It is an underground mine)**



**PART - "F"**

**PLEASE SPECIFY CHARACTERISTICS (IN TERMS OF CONCENTRATION & QUANTUM) OF HAZARD AS WELL AS SOLID WASTES AND INDICATE DISPOSAL PRACTICE ADOPTED FOR BOTH THESE CATEGORIES OF WATER.**

The hazardous waste is disposed through:

- (i) Oil and grease is disposed off through authorized/registered recyclers/re-refiner if any.
- (ii) Total quantity of solid wastes generated in the case of underground mine is very less, almost negligible.

**PART - "G"**

**IMPACTS OF POLLUTION CONTROL MEASURES ON CONSERVATION OF NATURAL RESOURCES AND CONSEQUENTLY ON COAL PRODUCTION.**

The brief summary of Pollution Control Measures taken for this mine is as under:

**G.0** In order to carry out mining operations in an environmentally, friendly and planned manner, the sources of pollution were identified and measures were suggested to keep them within permissible limits.

**G.1 SOURCES OF AIR POLLUTION**

The likely sources of air pollution are as under:

- Drilling operation;
- Blasting operation;
- Loading and transportation of Coal;

**G.1.1 Measures for Control of Air Pollution**

For control of air pollution, measures suggested are:

- Water sprinkling should be done before drilling holes and on coal faces.
- Sprinkling of water on coal before transportation;
- Spraying of water on coal stocks.
- Regular cleaning of coal transportation road.
- Construction of RCC road to avoid fugitive emission
- Ventilation System (Fan);

**G.1.2 Implementation Status**

- Water is sprinkled on coal faces before drilling and transportation and on coal stocks.
- Regular water sprinkling is done before drilling and on coal faces.
- RCC ROAD constructed from Way Bridge to Bunker (length 220 m)
- Asphaltting of Approach road has been carried out (length 5.2 km)

**G.2 WATER POLLUTION**

**G.2.1 Sources of Water Pollution**

The identified sources of water pollution are as under:

- TDS and TSS due to mining operation present in the mine water (mainly coal particles);

**G.2.2 Water Pollution Control Measures**

- The main pollutant responsible for water pollution is suspended solids. Sedimentation pond should be provided to take care of this pollutant.

**G.2.3 Implementation Status**

- Mine water is retained in the mine sump / Sedimentation Tank and
- ADDITIONAL 5000 GPH PRESSURE FILTER has been installed in mine.
- Water Treatment Plant is provided with 1.7 MGD Capacity.

**G.3 NOISE POLLUTION**

**G.3.1 Sources of Noise Pollution**

The sources of noise pollution are as under:

- Drilling Operation;
- Ventilation System (Fan);

**G.3.2 Noise Pollution Control Measures suggested**

The measures for reduction of noise level as envisaged in the EMP are as under :

- Selection of mining equipments so as to keep noise level below 85 dB(A);
- Provision of green belt around Workshop, CHP and other sensitive areas.

### **G.3.3 Implementation Status**

- Mining equipment are kept in good condition to reduce noise level.
- Refer Annexure-A3 for Noise level monitoring reports..

### **PART - "H"**

### **ADDITIONAL INVESTMENT PROPOSAL FOR ENVIRONMENTAL PROTECTION IN THE AREA:**

**H.1** The project has incurred an expenditure on the followings in connection with environmental management in the area:

<b>ENVIRONMENT CAPITAL HEAD</b>			
	<b>ACCOUNT HEAD</b>	<b>CURRENT YEAR</b>	<b>PROGRESSIVE</b>
1	Reclamation (HEMM)	Not Applicable	Not Applicable
2	Air Pollution control	Nil	Rs 9,47,000 Upto 31.03.2021
3	Water pollution control	Nil	Rs 10,00,000.00 Up to 31.03. 2021
4	Other (WATER METER)	Nil	Rs. 19,026 /- Up to 31.03. 2021
<b>ENVIRONMENT REVENUE HEAD</b>			
1	Afforestation	Nil	Nil
2	Air, Water & Noise Monitoring ( upto 31.03.2017)	Rs. 8.58 Lacs	From 2007-08 Rs 66.12 LACS (upto 31.03. 2021)
3	EIA / EMP Preparation	Rs. 139.83 Lacs	From 2020-21 Rs 139.83 LACS (upto 31.03. 2021)
4	Legal Expenses consent fees	Nil	Rs 63,24,000.00 (upto 31.08.2022)
5	Other (Water Cess)	Nil	Rs. 0.71 LACS (up to 31.03.2021)
6.	Environment Audit statement 2008-09 upto 31.03.2017	Nil	From 2007-08 Rs. 4,52,439.00 (upto 31.03.2021)
7	Ground Water Monitoring Charges	Rs. 2.92 Lacs	From 2015-16 Rs. 5.95 LACS (upto 31.03.2021)
8	Road	Nil	Rs. 41.59 LACS Upto 31.03.2021
9	Compensation paid for land acquisition	Nil	Rs. 3,81,240.00 ( For Compensatory Afforestation ) Upto 31.03.2021

## **H.2 Future Programme**

- Regular pollution control measures will continue to be followed.

Sl. No.	Particulars	Amount (Rs)
1.	Air pollution control measure	9,00,000.00
2.	Water Cess	-
3.	Consent Fees	As per MPPCB Rate Notification
4.	Air, Water, Noise Quality Monitoring, etc.	20,00,000.00
5.	Water Pollution Control	-
6.	Any Other Expenditure	Nil

## **PART - "I"**

### **MISCELLANEOUS**

**ANY OTHER PARTICULARS IN RESPECT OF ENVIRONMENTAL PROTECTION  
& ABATEMENT OF POLLUTION.**

### **AUDITOR'S COMMENT**

1. Unit shall maintain pollution control facilities properly to avoid discharge of Pollutants in the environment.
2. Fugitive emission shall be kept under control.
3. Dust Suppression mechanism shall be established in the mine.

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## ENVIRONMENTAL MONITORING REPORT

### TAWA-II UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



SEPTEMBER 2020

### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022


### CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY

A. Environment Statement (Form-V) Uploaded in XGN on 23/09/2021 18:56:02 from IP No: 103.247.4.93.

B. 19080-Tawa - II UG Coal Mine, Betul accepts the LEGAL responsibility  
and undertakes that the furnished information is CORRECT & ACCURATE.

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/SEPTEMBER-20/82	DATE OF ISSUE	30.10.2020
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance		
NAME OF AREA	PATHARKHERA	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	TAWA-II UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE-TAWA II: PKT2UA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
01.09.20	02.09.20	92	67	26	13	BDL	CLEAR CALM
25.09.20	26.09.20	81	56	20	15	BDL	RAINY CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SAM OFFICE: PKTUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
01.09.20	02.09.20	89	66	26	14	BDL	CLEAR CALM
25.09.20	26.09.20	77	50	21	12	BDL	RAINY CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

MPEB COLONY: PKTUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
01.09.20	02.09.20	78	54	24	15	BDL	CLEAR CALM
25.09.20	26.09.20	69	49	22	14	BDL	RAINY CALM
NAAQS, 2009		-	100	60	80	80	

HIRA PALLA/BHAGAIAKHAPA VILLAGE: PKT2UA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
01.09.20	02.09.20	66	49	27	12	BDL	CLEAR CALM
25.09.20	26.09.20	60	45	21	13	BDL	RAINY CALM
NAAQS, 2009		-	100	60	80	80	



Analysed by


Deepanshu sahu  
Authorised Signatory

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- 2 This report refers to the values related to the items tested.

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: PKTUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
02.09.2020	7.6	22	32	BDL
27.09.2020	7.87	24	28	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



Analysed by


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**NOISE LEVEL MONITORING DATA**

FAN HOUSE:		PKTUN1	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
Sep-20	03.09.2020	60.8	59.2
Sep-20	26.09.2020	60.1	58.9
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70



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## ENVIRONMENTAL MONITORING REPORT

### TAWA-II UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MARCH 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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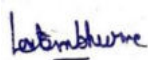
TEST REPORT NO.	RIN/TR/MAR-21/82	DATE OF ISSUE	28.04.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	PATHARKHERA	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	TAWA-II UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE-TAWA II: PKT2UA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
08.03.2021	09.03.2021	278	188	37	14	BDL	Clear / Lightbreeze
22.03.2021	23.03.2021	289	197	31	12	BDL	Clear / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SAM OFFICE: PKTUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
08.03.2021	09.03.2021	267	172	41	13	BDL	Clear / Lightbreeze
22.03.2021	23.03.2021	272	169	36	15	11	Clear / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

MPEB COLONY: PKTUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
08.03.2021	09.03.2021	130	97	27	10	BDL	Clear / Lightbreeze
22.03.2021	23.03.2021	136	89	28	11	BDL	Clear / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

HIRA PALLA/BHAGAIAKHAPA VILLAGE: PKT2UA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
08.03.2021	09.03.2021	122	82	24	9	BDL	Clear / Lightbreeze
22.03.2021	23.03.2021	141	84	34	9	BDL	Clear / Lightbreeze
NAAQS, 2009		-	100	60	80	80	




Analysed by


Deepanshu sahu  
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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017), TSS: IS 3025-Part 17:1984(RA 2017), COD: APHA (23rd Edition) 5220 C :2017, O & G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: PKTUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
08.03.2021	8.01	48	52	BDL
22.03.2021	8.23	38	44	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

FAN HOUSE:		PKTUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
MAR'21	09.03.2021	70.7	69.4
MAR'21	30.03.2021	71.9	71.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

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# **ENVIRONMENT STATEMENT**

**APRIL 2020 - MARCH 2021**



**SEPTEMBER 2021**

## **TAWA UG MINE**

**(PATHAKHERA AREA)**

**WESTERN COALFIELDS LTD.**

# ENVIRONMENT STATEMENT

FOR THE YEAR

APRIL, 2020 – MARCH, 2021

## **TAWA U/G MINE, WCL**

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## **CHAPTER-I INTRODUCTION**

### **1.1 GENESIS**

Industrial pollution in our country is on increase and is creating a high-risk environment. Various legislations viz. The water (Prevention & Control of Pollution) Act, 1974, The Air (Prevention & Control of Pollution) Act, 1981 and The Environment (Protection) Act, 1986 have come into force and organization created to combat pollution. It is being realized that industry and environment should go hand – in – hand so as to achieve sustainable development. Also over the years, awareness has brought in realization to consider environmental protection a bare necessity. Consideration of environmental factors at par with production helps in minimizing material losses and also in reduction of liabilities in the long run.

### **1.2 NEED OF ENVIRONMENTAL STATEMENT**

Environmental Audit is a technique being introduced for integrating the interest of the industry and the environment so that these could be mutually supportive. This technique is basically a part of industry's internal procedures in meeting their responsibilities towards better environment. Also the policy statement for abatement of pollution by the Govt. of India provides for submission of environmental statement by all concerned industries, which would subsequently evolve into an environmental audit. A notification under the Environment (Protection) Rules, 1986 has been issued on April 22, 1993, requiring industries to submit an environmental statement for the financial Year ending on March 31 in Form V to the concerned State Pollution Control Boards on or before September 30 every Year beginning 1993. The Department of Company Affairs also agreed to include this requirement as a part of the Director's Annual Report.

The submission of an environmental statement is applicable to the following.

- i) Those who require consent under the water (Prevention & Control of Pollution) Act, 1974:
- ii) Those who require consent under the Air (Prevention & Control of Pollution) Act, 1981: and
- iii) Those who require authorization under Hazardous wastes (Management & Handling) Rules, 1989.



**ENV. STATEMENT**  
**TAWA U/G**

Vide Gazette Notification No. G.S.R.3289(E) dated 13th March, 1992, the Ministry of Environment & Forests, Govt. of India have made provisions for Mandatory Environmental Statement as follows :

“Every person carrying on an industry, operation or process requiring consent under Section 25 of the Water Act, 1974 or under Section 21 of the Air Act, 1981 or both or authorisation under the Hazardous Waste Rules, 1989 issued under the Environmental Protection Act, 1986 shall submit an Environmental Audit Report for the financial year ending 31st March in Form – V to the concerned State Pollution Control Board on or before 30th September every year beginning 1993”.

In order to comply with the statutory requirement as well as to maintain corporate image in the region recognizing the importance of comprehensive structural mechanism to ensure that the mining activities do not cause any effects on environment.

**CHAPTER-II**  
**SALIENT FEATURES OF THE PROJECT**

1.	Name of the Project	Tawa UG Mine
2.	Location	WCL, Pathakhera Area, Distt : Baitul State : Madhya Pradesh
3.	Approved Production Capacity	0.80 MTPA
4.	Production in current FY	3,69,600 Te in FY 2020-21
5.	Water Consumption	133.13 KLD
6.	Raw Material Consumption :	
(a)	Explosive	1,62,389 kg
(b)	Detonator	3,79,973 Nos
(c)	Electricity	59,63,000 kWh
7.	Environmental Clearance Details	EC vide MoEF&CC Letter No. J-11015/30/89-IA.II(M) Dated 4 <sup>th</sup> Feb.94

## CHAPTER – III

### BASIS FOR ENVIRONMENTAL STATEMENT

#### **3.1 Water Quality**

Water is not directly used during mining for coal production except for dust suppression. It percolates into working area during mining operation. However, water is consumed for other purposes; mainly for domestic supply, industrial supply. Part “B” of the proforma contains detailed break-up of water consumption.

Pollution discharged into water has been calculated on the basis of water analysis and identified water pollutants. The main pollutants in mine water are suspended solids. The other sources of pollution in the effluent from various processes include oil and grease.

#### **3.2. Air Quality**

Ambient air quality is monitored to study the level of air pollution.

#### **3.3 Mining**

Mining activity produces less quantity of any hazardous waste; and it is shown in Part “D” of Form – V.

#### **3.4 Pollution Control Methods**

The pollution abatement measures for the sake of Environmental Statement are:

- Dust suppression by water sprinkling;
- Afforestation;
- Transportation of Coal in tarpaulin covered vehicle
- Water settling

Items identical under Part “H” of the proforma are those items which the Consultants have felt necessary which is also true for Part “I” in order to help Western Coalfields Limited to organize their abatement efforts for performing mining activities without adversely affecting the environment.

## CHAPTER – IV

### FORM – V

#### PART - “A”

Sl. No.	Particulars	
1.	Name and address of the Mine	<b>Tawa UG Mine</b>
(a)	Place	WCL, Pathakhera Area
(b)	District	Baitul
(c)	Telephone No.	07146-290083
(d)	FAX No.	07146-270566
2	Industry category Primary-(STC Code) Secondary-(STC Code)	Category “A”
3	Approved Production Capacity	0.80 MTY
4	Year of Establishment	1992
5	Date of last Environmental Statement Report submitted	29 <sup>th</sup> May, 2020

#### PART - “B”

#### WATER & RAW MATERIALS CONSUMPTION

Table – (a) Water consumption on Usage Pattern

Sl.No.	Particulars	
1.	Water Consumption (kl/day) :	
(a)	<b>Process – Industrial :</b>	
(i)	Dust suppression	85.00 KLD
(ii)	Fire fighting	-
(iii)	Workshop and others	-
(iv)	Green Belt / Plantation	-
(v)	CHP Beneficiation	-
(b)	<b>Domestic Purpose</b>	
(i)	Domestic Use	41.13 KLD
(ii)	Plantation	7 KLD
	<b>TOTAL</b>	<b>133.13 KLD</b>

Table – (b) WATER CONSUMPTION AGAINST PRODUCTION (INCLUDING RECYCLED)

Name of the Product	Water Consumption per unit of product (including recycled)	
	<b>During the Previous Financial Year 2019-20</b>	<b>During the Current Financial Year 2020-21</b>
COAL	91.73 l/t of coal produced	110.22 l/t of coal produced

**RAW MATERIAL CONSUMPTION AGAINST PRODUCTION**

Name of the Raw Material	Name of the Product	Consumption of Raw Material per Unit of Product	
		<b>During the Previous Financial Year 2019-20</b>	<b>During the Current Financial Year 2020-21</b>
<b>Explosive</b>	<b>Coal</b>	<b>0.4352 kg/t</b>	<b>0.4393 kg/t</b>
<b>Detonator</b>	<b>Coal</b>	<b>1.0525 No/t</b>	<b>1.0280 No/t</b>
<b>Electricity (Industrial)</b>	<b>Coal</b>	<b>16.2942 kWh/t</b>	<b>16.1336 kWh/t</b>

**PART - “C”**

**POLLUTION GENERATED**

(Parameters specified in the consent issued)

1.	Pollutants	Quantity of Pollution Generated	Percentage variation from prescribed standards with reasons
(a)	Water	See Annexure-A2	Values of parameters are within permissible limits.
(b)	Air	See Annexure-A1	Levels of air pollutants are within permissible limits mostly.

**PART - "D"**  
**HAZARDOUS WASTE**

(As specified under Hazardous Waste/ Management & Handling Rules, 1989)

1.	Hazardous Waste	Total Quantity (kg)	
		During the Previous Financial Year 2019-20	During the Current Financial Year 2020-21
(a)	From Process	Nil	Nil
(b)	From Pollution Control Facilities	Nil	Nil

**PART - "E"**  
**SOLID WASTES**

		Total Quantity	
		During the Previous Financial Year 2019-20	During the Current Financial Year 2020-21
(a)	From Process	Nil	Nil
(b)	From Pollution Control Facility	Nil	Nil
(c)	(i) Quantity recycled or re-utilised within the unit dumped on quarry void	Nil	Nil
	(ii) Sold	Nil	Nil
	(iii) Disposed (as external dumps)	Nil	Nil

**(It is an underground mine)**

**PART - "F"**

**PLEASE SPECIFY CHARACTERISTICS (IN TERMS OF CONCENTRATION & QUANTUM) OF HAZARD AS WELL AS SOLID WASTES AND INDICATE DISPOSAL PRACTICE ADOPTED FOR BOTH THESE CATEGORIES OF WATER.**

Total quantity of solid wastes generated in the case of underground mine is very less, almost negligible.

**PART - "G"**

**IMPACTS OF POLLUTION CONTROL MEASURES ON CONSERVATION OF NATURAL RESOURCES AND CONSEQUENTLY ON COAL PRODUCTION.**

The brief summary of Pollution Control Measures taken for this mine is as under:

**G.0** In order to carry out mining operations in an environmentally, friendly and planned manner, the sources of pollution were identified and measures were suggested to keep them within permissible limits.

**G.1 SOURCES OF AIR POLLUTION**

The likely sources of air pollution are as under:

- Loading and transportation of Coal
- Vehicular Movement
- Loading & Unloading of Coal

**G.1.1 Measures for Control of Air Pollution**

For control of air pollution, measures suggested are:

- Water sprinkling should be done before drilling holes and on coal faces.
- Sprinkling of water on coal before transportation.
- Spraying of water on coal stocks.
- Regular cleaning of coal transportation road.

**G.1.2 Implementation Status**

- Water is sprinkled on coal faces before drilling and transportation and on coal stocks.
- Regular water sprinkling is done before drilling and on coal faces.
- 12 nos. fixed sprinklers have been provided in Mine premise as Air pollution control measures.

## **G.2 WATER POLLUTION**

### **G.2.1 Sources of Water Pollution**

The identified sources of water pollution are as under:

TDS and TSS due to mining operation present in the mine water (mainly coal particles);

### **G.2.2 Water Pollution Control Measures**

- The main pollutant responsible for water pollution is suspended solids. Sedimentation pond should be provided to take care of this pollutant.

### **G.2.3 Implementation Status**

Mine water is retained in the mine sump / Sedimentation Tank before discharged to nearby surface water / nullah or used internally.

Water Treatment Plant is provided with 1.7 MGD Capacity.

## **G.3 NOISE POLLUTION**

### **G.3.1 Sources of Noise Pollution**

The sources of noise pollution are as under:

Drilling Operation;

Ventilation System (Fan);

### **G.3.2 Noise Pollution Control Measures suggested**

- The measures for reduction of noise level as envisaged in the EMP are as under :
  - Selection of mining equipments so as to keep noise level below 85 dB(A);
- Provision of green belt around SAM Office, Workshop, CHP and other sensitive areas.

### **G.3.3 Implementation Status**

Mining equipment are kept in good condition to reduce noise level.

Refer Annexure-A3 for Noise level monitoring reports



**PART - "H"**

**ADDITIONAL INVESTMENT PROPOSAL FOR ENVIRONMENTAL PROTECTION IN THE AREA:**

**H.1** The project has incurred an expenditure on the followings in connection with environmental management in the area:

	ACCOUNT HEAD	CURRENT YEAR 2020-21	PROGRESSIVE
	<b><u>ENVIRONMENT CAPITAL HEAD</u></b>		
1	Reclamation (HEMM)	Not Applicable	Not Applicable
2	Air Pollution control	Nil	Rs. 9,98,000/- (up to 31.03.2021)
3	Water pollution control	Nil	Rs. 10,29,000/- (up to 31.03. 2021)
4	Compensation against damage of forest growth and afforestation measures including compensatory afforestation.	Nil	Rs. 23,37,000 /- (up to 31.03. 2021)
5	Data generation for EMP	Nil	NIL
6	Other (water meter )	Nil	Rs. 0.52 Lacs (up to 31.03. 2021)
	<b><u>ENVIRONMENT REVENUE HEAD</u></b>		
1	Afforestation	Nil	Rs. 2000/-
2	Air , Water, & Noise Monitoring	Rs. 18.99 Lacs	( From 2007-08 ) Rs. 120.36 Lacs (upto 31.03. 2021)
3	Legal Expenses consent fees	Nil	Rs. 69.72 Lacs upto 31.12.2022
4	Water Cess Charges	Nil	From 01.10.09 Rs 2.02 Lacs (up to 31.03.2021)
5	Environment audit statement	Nil	( From 2007 – 08) Rs 5,90,406.00 (up to 31.03. 2021)
6	Ground Water Monitoring	Rs. 3.34 Lacs	From 01.04.2015 Rs. 6.45 Lacs (up to 31.03. 2021)
7	Repair of Road	Rs. 4.38 Lacs	Rs 1.25Crore upto 31.03. 2021
8	Subsidence Management	Rs. 23.77 Lacs	From 01.04.2020 Rs. 23.77 Lacs (up to 31.03. 2021)

## **H.2 Future Programme**

Regular pollution control measures will continue to be followed.

Sl. No.	Particulars	Amount (in Rs)
1.	Air pollution control measure	9,00,000.00
2.	Water Cess	-
3.	Consent Fees	As per MPPCB Rate Notification
4.	Air, Water, Noise Quality Monitoring, etc.	20,00,000.00
5.	Ground water Monitoring	1,50,000.00
6.	Water Pollution control measures	-
7.	Any other expenditure	Nil

### **PART - "I"**

#### **MISCELLANEOUS**

**ANY OTHER PARTICULARS IN RESPECT OF ENVIRONMENTAL PROTECTION & ABATEMENT OF POLLUTION.**

#### **AUDITOR'S COMMENT**

1. Unit shall maintain pollution control facilities properly to avoid discharge of pollutants in the environment.
2. Desilting of Drain and Settling Pond Shall be carried out.

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## ENVIRONMENTAL MONITORING REPORT

### TAWA UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



SEPTEMBER 2020

### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

### CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/SEPTEMBER-20/83	DATE OF ISSUE	30.10.2020
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance		
NAME OF AREA	PATHERKHERA	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	TAWA UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SAM OFFICE: PKTUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
01.09.20	02.09.20	89	66	26	14	BDL	CLEAR CALM
25.09.20	26.09.20	77	50	21	12	BDL	RAINY CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

MANAGER OFFICE-TAWA II: PKT2UA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
01.09.20	02.09.20	92	57	26	13	BDL	CLEAR CALM
25.09.20	26.09.20	81	56	20	15	BDL	RAINY CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

MPEB COLONY: PKTUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
01.09.20	02.09.20	78	54	24	15	BDL	CLEAR CALM
25.09.20	26.09.20	69	49	22	14	BDL	RAINY CALM
NAAQS, 2009		-	100	60	80	80	

HIRA PALLA/BHAGAIAKHAPA VILLAGE: PKT2UA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
01.09.20	02.09.20	66	49	27	12	BDL	CLEAR CALM
25.09.20	26.09.20	60	45	21	13	BDL	RAINY CALM
NAAQS, 2009		-	100	60	80	80	

*Latimburne*

Analysed by

*Deepanshu sahu*

Deepanshu sahu  
Authorised Signatory

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- 2 This report refers to the values related to the items tested.

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE:		PKTUW1		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
02.09.2020	7.52	28	36	BDL
27.09.2020	7.85	26	40	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



Analysed by



Deepanshu sahu  
Authorised Signatory

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**NOISE LEVEL MONITORING DATA**

FAN HOUSE:		PKTUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
Sep-20	03.09.2020	58.1	57.3
Sep-20	26.09.2020	57.6	56.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY(TAWA):		PKTUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
Sep-20	03.09.2020	41.7	40.2
Sep-20	26.09.2020	40.3	39.7
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

### TAWA UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MARCH 2021

### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022


### CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY

A. Environment Statement (Form-V) Uploaded in XGN on 23/09/2021 19:48:39 from IP No: 157.34.56.55.

B. 22953-Tawa Mine No.1, Wcl Pathakhera, Betul accepts the LEGAL responsibility  
and undertakes that the furnished information is CORRECT & ACCURATE.

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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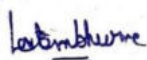
TEST REPORT NO.	RIN/TR/MAR-21/83	DATE OF ISSUE	28.04.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001 (RA 2017)		
NAME OF AREA	PATHERKHERA	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	TAWA UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SAM OFFICE: PKTUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
08.03.2021	09.03.2021	267	172	41	13	BDL	Clear / Lightbreeze
22.03.2021	23.03.2021	272	169	36	15	11	Clear / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

MANAGER OFFICE-TAWA II: PKT2UA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
08.03.2021	09.03.2021	278	188	37	14	BDL	Clear / Lightbreeze
22.03.2021	23.03.2021	289	197	31	12	BDL	Clear / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

MPEB COLONY: PKTUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
08.03.2021	09.03.2021	130	97	27	10	BDL	Clear / Lightbreeze
22.03.2021	23.03.2021	136	89	28	11	BDL	Clear / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

HIRA PALLA/BHAGAIAKHAPA VILLAGE: PKT2UA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
08.03.2021	09.03.2021	122	82	24	9	BDL	Clear / Lightbreeze
22.03.2021	23.03.2021	141	84	34	9	BDL	Clear / Lightbreeze
NAAQS, 2009		-	100	60	80	80	



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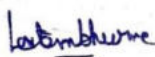

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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O & G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: PKTUW1		ANALYSIS RESULTS		
DATE OF SAMPLE COLLECTION	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
08.03.2021	7.96	28	32	BDL
22.03.2021	8.09	26	36	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

<b>FAN HOUSE: PKTUN1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
MAR'21	09.03.2021	69.6	68.3
MAR'21	30.03.2021	69.5	68.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY(TAWA): PKTUN2</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
MAR'21	09.03.2021	45.2	44.5
MAR'21	30.03.2021	44.8	43.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>