

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

Address

Ballarpur Opencast Mine, Ballarpur Area, WCL

Plot no

284 285 286 287 288 289 290

Capital Investment (In lakhs)

2500

Pincode 442706

Telephone Number

007500000

8275968299

Region

SRO-Chandrapur

Last Environmental statement submitted

online yes

Consent Valid Upto

30/06/2021

Industry Category Primary (STC Code) &

Secondary (STC Code)

Application UAN number

9401

Taluka

Ballarpur

Scale

L.S.I

Person Name

Rajesh Kumar Mishra

Fax Number

07173230076

Industry Category

Red

Consent Number

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

R/CC/1806000238

Establishment Year

1979

Village

-

City

Chandrapur

Designation

Sub Area Manager

Email

envbocm@gmail.com

Industry Type

R35 Mining and ore beneficiation

Consent Issue Date

05/06/2018

Date of last environment statement

submitted

Sep 19 2020 12:00:00:000AM

Product Information

Product NameConsent QuantityActual QuantityUOMCoal0.6250.225MT/A

By-product Information

By Product Name Consent Quantity Actual Quantity UOM
- 0 MT/A

	0.00	0	00			
		U	.00			
	180.00		160.00			
	0.00	0	0.00			
	640.00	6	20.00			
on in CMD / MLD						
	Consent Qua 1391.5	-		_	UOM CMD	
	ion (cubic meter of					
roduction)					UOM	
NNE)	0.26	i8	0.746		CMD	
sumption (Consumpti	on of raw material					
als					UOM	
2)	0.195		0.448			
	Company assembles	A atrial Or			24	
	0	594	iantity			
to environment/unit	of output (Parameter as speci	fied in the conse	nt issued)			
Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration	from presc standards	ribed with reasons	Standard	Reason	
0	0	-		-	-	
Quantity of	Concentration of Pollutants					
discharged (kL/day)	discharged(Mg/NM3) Concentration			Standard	Reason	
)	0	-		-	-	
	to environment/unit Quantity of Pollutants discharged (kL/day) Quantity of Pollutants Countity of Cou	Consent Quality of Quantity of Quantity Of Concentration O O Quantity of Quantity Of Concentration O O Quantity of Quantity O Quantity of Concentration of Pollutants discharged (KL/day) Quantity O Quantity of Concentration of Pollutants discharged (KL/day) Concentration O Quantity Of Concentration O Quantity O	Consent Quantity 1391.5 Consent Quantity 1391.5 Consess Water Consumption (cubic meter of int of product) Production NNE) During the Previous financial Year 0.268 During the Previous financial Year 0.195 Consent quantity 0 195 Consent quantity 0 594 Concentration of Pollutants discharged (kL/day) Quantity of Concentration 0 0 Concentration of Pollutants discharged (kL/day) Quantity of Concentration of Pollutants discharged (kL/day) Quantity of Concentration of Pollutants discharged (kL/day) Concentration wvariation wvariation	Consent Quantity 1391.5 During the Previous financial Year Financial Y	Consent Quantity 1391.5 Consent Quantity 1472 Consent Quantity 1472 Consent Quantity 1472 Consent Quantity 1574 Consent Qu	

Total During Previous Financial year

Total During Current Financial year

0

UOM

Ton/Y

2) From Pollution Control Facilities

5.2 Wastes or residues containing oil 0

HAZARDOUS WASTES
1) From Process

Hazardous Waste Type

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

Part-E

SOLID WASTES	
1) From Process	

Non Hazardous Waste TypeTotal During Previous Financial yearTotal During Current Financial yearUOMOverburden112000140000M3/Anum

2) From Pollution Control Facilities

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

3) Quantity Recycled or Re-utilized within the unit

Waste TypeTotal During Previous Financial yearTotal During Current Financial yearUOM year000CMD

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 KL/A -

2) Solid Waste

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

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.

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 thepollution 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

Detail of measures for Environmental Protection

Environmental Protection Measures Capital Investment

(Lacks)

Capital Expenditure For new sedimentation tank 2

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection Environmental Protection Measures

Capital Investment (Lacks)

For New Sedimentation tank and ETP

environmental protection abatement of pollution, prevention of pollution

13

Part-I

Any other particulars for improving the quality of the environment.

Particulars

Name & Designation

Sub Area Manager

UAN No:

MPCB-ENVIRONMENT STATEMENT-0000037546

Submitted On:



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 **Application UAN number**

09399 Ballarpur Colliery 3 &4 pits

Address

Ballarpur Colliery 3 & 4 pit , Ballarpur Area, WCL

Plot no Taluka Village Ballarpur

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

Capital Investment (In lakhs) Scale City

L.S.I 3897 Chandrapur

Designation Pincode Person Name 442701 Rajesh Kumar Mishra Sub Area Manager

Telephone Number Fax Number **Email**

8275968299 envbc34@gmail.com

Region **Industry Category Industry Type**

R35 Mining and ore beneficiation SRO-Chandrapur Red

Last Environmental statement submitted **Consent Number Consent Issue Date**

online

BO/JD(APC)/UAN No. 08/06/2017 yes 09399/R/CC-1706000438

Establishment Year Date of last environment Consent Valid Upto

statement submitted 30/06/2021 1968 Sep 19 2020 12:00:00:000AM

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

Product Information Product Name Consent Quantity Actual Quantity UOM 0.60

0.107 Coal MT/A

By-product Information

By Product Name **Consent Quantity Actual Quantity** иом MT/A

	ion in m3/day for	Consent Quantity in 1 42.00	m3/day	Actual Quantity 42.00	in m3/day	
Process Cooling		0.00		0.00		
Domestic						
All others		1500.00		1500.00		
Total		0.00		0.00 1542.00		
Total		1542.00		1542.00		
2) Effluent Generati	on in CMD / MLD					
Particulars Daily trade offluent		Consent (2900	Quantity	Actual Quantity 1297		<i>UOM</i> CMD
Daily trade effluent		2900		1297	,	CMD
	cess Water Consumptio	on (cubic meter of				
process water per u Name of Products (F			uring the Previou			UOM
and CUDIC METER TO	AINE)		nancial Year	Financial y	rear	CMD
coal (CUBIC METER/TO	INNE)	0	152	0.143		CMD
	sumption (Consumption	n of raw material				
per unit of product) Name of Raw Mater		Durin	g the Previous	During the o	urrent	UOM
Maine of Naw Mater	iais		cial Year	Financial ye		OON
EXPLOSIVES (KG/TONN	NE)	0.376		0.261		
4) Fuel Consumption	n					
Fuel Name	_	Consent quantity		Quantity	UOM	
-		0	5		KL/A	
Part-C						
	d to environment/unit o	f output (Parameter as spe	cified in the cons	sent issued)		
[A] Water Pollutants Detail	Quantity of	Concentration of Pollutant	s Percenta	age of variation		
	Pollutants	discharged(Mg/Lit) Except	from pre			
	discharged (kL/day)	Concentration	%variati		Standard	Reason
	Quantity	Concentiation				
WATER REPORT	Quantity 0	0	-		-	-
WATER REPORT ATTACHED IN PART I	•		-		-	-
	•		-		-	
ATTACHED IN PART I	•	Concentration of Pollutar discharged(Mg/NM3)	from pre	nge of variation scribed Is with reasons	-	
[B] Air (Stack) Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutar discharged(Mg/NM3) Concentration	from pre	scribed Is with reasons	- Standard	Reasor
ATTACHED IN PART I [B] Air (Stack)	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutar discharged(Mg/NM3)	from pre standard	scribed Is with reasons	- Standard -	Reason

HAZARDOUS WASTES
1) From Process

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

Total During Current Financial year

UOM KL/A

0

2) From Pollution	on Control Fa	cilities				
Hazardous Was				During Previou cial year	ıs Total During Financial yea	
34.2 Sludge from / disposal of barre		waste water arising out of c		·	0	Ton/Y
Part-E						
SOLID WASTES 1) From Process	s					
		Total During Previous I 0	Financial year	Total Duri 0	ing Current Financial	year UOM M3/Anum
2) From Pollution						
Non Hazardous -	Waste Type	Total During Pr 0	evious Financia	al year Total I 0	During Current Finan	ncial year UOM M3/Anum
	cycled or Re-u	utilized within the				
unit Waste Type			tal During Prev ancial year		Total During Current year	t Financial UOM
0		0	,		0	M3/Anum
Part-F						
		ristics(in terms of conce lopted for both these ca			ardous as well as sol	id wastes and
1) Hazardous W						
Type of Hazard 0	ous Waste Ge	enerated Qty of 0	Hazardous Wa	ste UOM KL/A	Concentration of Ha	azardous Waste
2) Solid Waste						
Type of Solid W	aste Generat	ted Qty of a	Solid Waste	<i>UOM</i> M3/Anum	Concentration of 0	Solid Waste
Part-G						
Impact of the p	ollution Cont	rol measures taken on c	onservation of	natural resour	ces and consequenti	y on the cost of
Description	Reduction in Water Consumption (M3/day)	Fuel & Solvent	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.

Detail of measures for Environmental Protection

Statement

[A] Investment made during the period of Environmental

Environmental Protection Measures

Capital Investment (Lacks)

- 0

[B] Investment Proposed for next Year

Fogging machine for Railway siding

Detail of measures for Environmental Protection Environmental Protection Measures

Capital Investment (Lacks)

7

Part-I

Any other particulars for improving the quality of the environment.

Particulars

Name & Designation

Sub Area Manager

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000037498

Submitted On:



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

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

Capital Investment (In lakhs)

8621

Pincode 442706

Telephone Number

9552265303

Region

SRO-Chandrapur

Last Environmental statement submitted

online yes

Consent Valid Upto

31.03.2021

Industry Category Primary (STC Code) & Secondary (STC Code) Application UAN number

Taluka

Rajura

Scale

LSI

Person Name

GVS Prasad

Fax Number

07173230076

Industry Category

Red

Consent Number

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

Establishment Year

2012

Village

City

Chandrapur

Designation

SUB AREA MANAGER

Email

envgourideep@gmail.com

Industry Type

R35 Mining and ore beneficiation

Consent Issue Date

07.09.2020

Date of last environment statement submitted

Sep 19 2020 12:00:00:000AM

Product Information

Product NameConsent QuantityActual QuantityUOMCOAL0.600.536MT/A

By-product Information

By Product NameConsent QuantityActual QuantityUOMNA00CMD

1) Water Consumption Water Consumption Process		Consent Q (222.00	uantity in m3/da	-	actual Quantity 22.00	in m3/day	,
Cooling		0.00		0	.00		
Domestic		10.00		1	0.00		
All others		170.00		1	70.00		
Total		402.00		4	02.00		
2) Effluent Generati	ion in CMD / MLD						
Particulars			Consent Quan 1237	-	Actual Quantity 1237		<i>JOM</i> CMD
daily trade effluent Domestic effluent			6		i 237		CMD
Domestic enluent			0				.МО
2) Product Wise Proprocess water per u	ocess Water Consumptio	on (cubic meter o	<u>f</u>				
Name of Products (During financia	the Previous al Year	During the Financial y		UOM
coal (CUBIC METER/TC	ONNE)		0.135		0.151		CMD
3) Raw Material Cor	nsumption (Consumption	n of raw material	1				
per unit of product)			Desire a the	- Dravious	Descripe the		иом
Name of Raw Mater	riais		During the financial Y		During the o		UOM
EXPLOSIVES (KG/TONI	NE)		0.81		1.16		
4) Fuel Consumptio	on .		_	_	_		
Fuel Name Diesel		Consent qua 0	ntity	Actual Qu 3340	antity	UO ! KL/ <i>!</i>	
Diesei		U		3340		KL//	4
Part-C							
	d to environment/unit o	f output (Parame	eter as specified	I in the conse	nt issued)		
[A] Water Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of discharged (Mg/L) PH, Temp, Colour Concentration	Lit) Except	from pres	with reasons	Standard	Reason
WATER REPORT ATTACHED IN PART I	0	0		-		-	-
[B] Air (Stack) Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration discharged (Mg		from preso	with reasons	Standard	Reason
NO AIR STACK MONITORING	0	0		- -	•	-	-
Part-D							

1) From Process	5							
Hazardous Was 5.2 Wastes or res			g Previous Finar	ncial year	Total 1	During Current Fina	ncial year	UOM Ton/Y
5.1 Used or spent	_	0			0			Ton/\
2) From Pollution Hazardous Was		ities	Total During Pr	evious Fina		Total During Curren year	nt Financial	иом
35.3 Chemical slu	ıdge from waste v	water treatment	-			2		Ton/Y
Part-E								
	Waste Type To	_	vious Financial y			g Current Financial	-	ИОМ
OVERBURDEN	14	118000		3	484000		I	M3/Anum
2) From Pollution	on Control Facil	ities						
Non Hazardous -	Waste Type	Total Du i 0	ring Previous Fin	ancial year	Total 0	During Current Find	ancial year	UOM CMD
3) Quantity Rec	ycled or Re-util	ized within the						
Waste Type			Total Durin year	g Previous	Financial	Total During Curr year	ent Financia	I UOM
0			0			0		CMD
Part-F								
			concentration a		ı) of hazaı	rdous as well as sol	id wastes an	d
1) Hazardous W							-	
Type of Hazardo	ous Waste Gene	erated	Qty of Hazardou 0	ıs Waste	UOM KL/A	Concentration of Ha	azardous Wa	ste
2) Solid Waste Type of Solid W OVERBURDEN	aste Generated	,	Qty of Solid Wa : 3484000		<i>JOM</i> 13/Anum	Concentration o	f Solid Wast	e
Part-G								
Impact of the production.	ollution Control	measures take	en on conservati	on of natura	al resourc	es and consequentl	y on the cos	t of
Description	Reduction in Water Consumption (M3/day)	Reduction Fuel & Solv Consumpti (KL/day)	vent Raw	Powe	umption	Capital Investment(in Lacs)	Reduction Maintenan Lacs)	
Impact of the pollution Control measures	50	-2.561	-136000	-2570	00	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 Environmental Protection Measures Capital Investment (Lacks)

CAPITAL EXPENDITURE VARIOUS AIR, WATER AND NOISE CONTROL 0

MEASURES INCLUDING CESS.

[B] Investment Proposed for next Year

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

CAPITAL INVESTMENT VARIOUS AIR, WATER AND NOISE CONTROL MEASURES 0

Part-I

Any other particulars for improving the quality of the environment.

Particulars

rai ticulai

Name & Designation

GVS . Prasad, SUB AREA MANAGER

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000037759

Submitted On:



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

Address

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

Plot no

Capital Investment (In lakhs)

13131.42

Pincode

442706

Telephone Number

9552265303

Region

SRO-Chandrapur

Last Environmental statement submitted

online yes

Consent Valid Upto

31.03.2021

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

Application UAN number

Taluka

Rajura **Scale**

LSI

Person Name

GVS Prasad

Fax Number

07173230076

Industry Category

Red

Consent Number

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

Establishment Year

2011

Village

-

City

Chandrapur

Designation

Sub Area Manager

Email

envgouri12@gmail.com

Industry Type

R35 Mining and ore beneficiation

Consent Issue Date

2020-09-07

Date of last environment statement submitted

Sep 19 2020 12:00:00:000AM

Product Information

Product NameConsent QuantityActual QuantityUOMCOAL0.80.76MT/A

By-product Information

By Product NameConsent QuantityActual QuantityUOMNA0CMD

Water Consumption	for	Consent Quantity in m3	/day	Actual Quantity	in m3/day	
Process		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 Generati	on in CMD / MLD					
Particulars		Consent Qua	-	Actual Quantity		UOM
daily trade effluent		753		628.4	(CMD
	cess Water Consumptio	on (cubic meter of				
Name of Products (I			ng the Previous			UOM
			icial Year	Financial y	rear	
coal (CUBIC METER/TC	NNE)	0.392		0.324		CMD
	sumption (Consumption	n of raw material				
per unit of product) Name of Raw Mater		During t	the Previous	During the d	urrent	UOM
EXPLOSIVES (KG/TONN	IE)	financia 3.065	l Year	Financial ye 1.255	ar	
EXPLOSIVES (RG/TOINI)	NE)	3.003		1.255		
4) Fuel Consumption	n					
Fuel Name		Consent quantity	Actual Q	uantity	UOI	=
Diesel		0	2077		KL/A	4
Part-C						
	d to environment/unit o	f output (Parameter as specifi	ied in the conse	ent issued)		
[A] Water	Quantity of	Concentration of Pollutants	Percenta	ge of variation		
Pollutants Detail		discharged(Mg/Lit) Except	from pres	cribed		
Pollutants Detail	Pollutants			:+		
Pollutants Detail	discharged (kL/day)	PH,Temp,Colour	standards			_
	discharged (kL/day) Quantity	PH,Temp,Colour Concentration	standards %variatio		Standard	Reasor
WATER REPORT ATTACHED IN PART I	discharged (kL/day)	PH,Temp,Colour			Standard -	Reason -
WATER REPORT	discharged (kL/day) Quantity	PH,Temp,Colour Concentration			Standard -	Reasor
WATER REPORT ATTACHED IN PART I	discharged (kL/day) Quantity	PH,Temp,Colour Concentration	%variatio - Percentag from pres standards	ge of variation cribed with reasons	Standard -	Reasor -
WATER REPORT ATTACHED IN PART I [B] Air (Stack) Pollutants Detail	discharged (kL/day) Quantity 0 Quantity of Pollutants discharged (kL/day) Quantity	PH,Temp,Colour Concentration 0 Concentration of Pollutants discharged(Mg/NM3) Concentration	%variatio - Percentag	ge of variation cribed with reasons	Standard - Standard	-
WATER REPORT ATTACHED IN PART I [B] Air (Stack)	discharged (kL/day) Quantity 0 Quantity of Pollutants discharged (kL/day)	PH,Temp,Colour Concentration Concentration of Pollutants discharged(Mg/NM3)	%variatio - Percentag from pres standards	ge of variation cribed with reasons	-	-

H/	ZA	RDOU.	S WAS	STES
1)	Fro	m Pro	cess	

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

Hazardous Waste Type

Total During Previous Financial

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

Waste Type

Total During Previous Financial vear

Total During Current Financial year

UOM

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

OVERBURDEN

Type of Solid Waste Generated

Qty of Solid Waste

UOM

Concentration of Solid Waste

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	0	5.60	968000	-1122000	0	0

Part-H

measures

[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection

Environmental Protection Measures

Capital Investment (Lacks)

CAPITAL EXPENDITURE

FOR VARIOUS AIR, WATER AND NOISE CONTROL

MEASURES INCLUDING CESS.

-

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection

Environmental Protection Measures

Capital Investment (Lacks)

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:



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.

Address

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

Last Environmental statement submitted

Industry Category Primary (STC Code) &

Plot no

Capital Investment (In lakhs)

16882.53

Pincode

442706

Telephone Number

7767988059

Region

SRO-Chandrapur

online

yes

Consent Valid Upto

31/03/2021

Application UAN number

Taluka

Rajura

Scale

L.S.I

Person Name J.Eakambaram

Fax Number

07173230076

Industry Category

Consent Number

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

Establishment Year

2016

Village

Sakhari

City

Chandrapur

Designation

Sub Area Manager

Email

envpouni2@gmail.com

Industry Type

R35 Mining and ore beneficiation

Consent Issue Date

02/09/2020

Date of last environment statement

submitted

Sep 19 2020 12:00:00:000AM

Product Information

Secondary (STC Code)

Product Name Consent Quantity Actual Quantity UOM 3.25 2.8 Coal MT/A

By-product Information

By Product Name **Consent Quantity Actual Quantity UOM** 0 0 MT/A

1) Water Consumption Water Consumption		Consent Quantity in	n m3/day	Actual Quantity	in m2/day	
Process	II IOI	347.00	-	actual Qualitity 347.00	III III3/Uay	
Cooling		0.00		0.00		
Domestic		20.00	:	20.00		
All others		210.00		210.00		
Total		577.00		577.00		
2) Effluent Genera	tion in CMD / MLD					
Particulars			nt Quantity	Actual Quantity	=	ОМ
Trade effluent		454		104	С	MD
Domestic Trade efflu	ent	16		16	C	MD
	rocess Water Consumpt	ion (cubic meter of				
process water per Name of Products		1	During the Previous	During the	current	UOM
	(,		financial Year	Financial y		
coal (CUBIC METER/T	ONNE)	(0.060	0.045		CMD
3) Raw Material Co per unit of product	onsumption (Consumpti	ion of raw material				
Name of Raw Mate			ring the Previous ancial Year	During the Financial ye		UOM
EXPLOSIVES (KG/TON	INE)	0.50)5	1.81		
4) Fuel Consumpti	on					
Fuel Name		Consent quantity	Actual Q	uantity	UOI	М
Diesel		0	299		KL/A	١
Part-C						
	ed to environment/unit	of output (Parameter as sp	ecified in the conse	ent issued)		
[A] Water Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutant discharged(Mg/Lit) Except PH,Temp,Colour Concentration	t from pres	with reasons	Standard	Reason
Report attached in Part I	0	0	-		-	-
[B] Air (Stack) Pollutants Detail	Quantity of Pollutants	Concentration of Pollutant discharged(Mg/NM3)	ts Percentage from presc	e of variation ribed		
	. 0114441143					
	discharged (kL/day)		standards	with reasons		
	discharged (kL/day) Quantity	Concentration	standards %variation		Standard	Reasor

Part-D

		!! 0			0			KL/A
5.2 Wastes or res	sidues containin	ig oii 0						
2) From Polluti	on Control Fac	cilities						
Hazardous Was	ste Type		Total year	During Previou	s Financial	Total During Current year	Financial	UOI
35.3 Chemical sl	udge from wast	e water treatm	ent 0			7.94		Ton
art-E								
SOLID WASTES								
) From Proces								
Non Hazardous		_	Previous I	Financial year		ing Current Financial	-	ОМ
Overburden		6469000			15565000		М	3/Anu
2) From Polluti Non Hazardous			During Pr	evious Financia	al year Tot	al During Current Find	ancial year	ио СМІ
3) Quantity Red	cycled or Re-u	tilized within	the					
unit Waste Type			7	otal During Pre	evious Financi	al Total During Curr	ent Financial	UO
			1/	·		year		
)			0	year)		0		CM
Part-F Please specify			s of conce	ntration and qu		0 zardous as well as sol	id wastes and	
Part-F Please specify indicate dispos	al practice ad		s of conce)			id wastes and	
Part-F Please specify Indicate dispos	al practice ad Vaste	opted for bot	s of conce th these ca	ntration and quategories of was	stes.	zardous as well as sol		<u> </u>
Part-F Please specify indicate dispos 1) Hazardous V Type of Hazard	al practice ad Vaste	opted for bot	s of conce th these ca	ntration and qu	stes.			<u> </u>
Part-F Please specify indicate dispose 1) Hazardous V Type of Hazard	al practice ad Vaste Jous Waste Ge	opted for bot	s of conce th these ca Qty of	ntration and quategories of was	ste UOM KL/A	zardous as well as sol Concentration of Ha	azardous Was	te
Part-F Please specify indicate dispose 1) Hazardous V Type of Hazard	al practice ad Vaste Jous Waste Ge	opted for bot	s of conce th these ca Qty of	ntration and quategories of was	stes.	Concentration of Ha	azardous Was	te
Part-F Please specify indicate dispose 1) Hazardous V Type of Hazardous V 2) Solid Waste Type of Solid W Overburden	al practice ad Vaste Jous Waste Ge	opted for bot	s of conce th these ca Qty of 0	ntration and quategories of was	stes. ste UOM KL/A	Concentration of Ha	azardous Was	te
Part-F Please specify indicate dispose specify indicate dispose specify indicate specific spe	al practice ad Vaste Jous Waste Ge Vaste Generate	opted for bot	of conce th these can Qty of 0 Qty of 155650	ntration and quategories of was	stes. ste UOM KL/A UOM M3/Anum	Concentration of Ha	azardous Was f Solid Waste	te
Please specify Indicate dispose Indicate Indic	Vaste Vaste Vaste Vaste Ge Vaste Generate Vaste Generate Vaste Generate Vaste Generate Vaste Generate Vaste Generate Consumption	nerated rol measures Reduct Fuel & S	Qty of Qty of 155650 taken on of ion in Solvent nption	ntration and quategories of was F Hazardous Was F Solid Waste 000 Conservation of Reduction in Raw Material	stes. ste UOM KL/A UOM M3/Anum natural resou Reduction in Power Consumption	Concentration of Haracon Concentration of the Conce	azardous Was f Solid Waste	of n
Part-F Please specify indicate disposed in the property of th	Vaste Vaste Vaste Vaste Ge Vaste Generate Vaste Generate Vaste Generate Vaste Generate Vaste Generate	nerated ed Reduct Fuel &	Qty of Qty of 155650 taken on of ion in Solvent nption	ntration and quategories of was F Hazardous Was F Solid Waste 000 Conservation of Reduction in Raw	stes. ste UOM KL/A UOM M3/Anum natural resou Reduction in Power	Concentration of Haracon Concentration of the Conce	azardous Was f Solid Waste y on the cost Reduction i Maintenand	of n

KL/A

5.1 Used or spent oil

[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 abatement of pollution, prevention of pollution

(Lacks)

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection Environmental Protection Measures

Capital Investment (Lacks)

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:



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

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

Capital Investment (In lakhs)

9615.3

Pincode

442706

Telephone Number

9552265303

Region

SRO-Chandrapur

Last Environmental statement submitted

online

yes

Consent Valid Upto

31/03/2021

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

Application UAN number

88154

Taluka

Rajura

Scale

LSI

Person NameGVS Prasad

Fax Number

07173230076

Industry Category

Red

Consent Number

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

Establishment Year

1998

Village

-

City

Chandrapur

Designation

Sub Area Manager

Email

envpouni@gmail.com

Industry Type

R35 Mining and ore beneficiation

Consent Issue Date

02/09/2020

Date of last environment statement submitted

Sep 19 2020 12:00:00:000AM

Product Information

Product NameConsent QuantityActual QuantityUOMCOAL0.90.43MT/A

By-product Information

By Product NameConsent QuantityActual QuantityUOMNA00CMD

1) Water Consump							
Water Consumptio	n for		ntity in m3/da	-	Actual Quantity	y in m3/day	•
Process		1170.00			318.00		
Cooling		0.00		1	0.00		
Domestic All others		16.00			16.00		
		90.00		(0.00		
Total		1276.00		:	334.00		
2) Effluent Genera	tion in CMD / MLD						
Particulars			Consent Quar	ntity	Actual Quantit	-	IOM
daily trade effluent			967		892	C	MD
domestic trade efflue	ent		5		5	C	MD
	rocess Water Consumpt	ion (cubic meter of					
process water per Name of Products			During t	the Previous	During the	e current	иом
			financia		Financial y		
coal (CUBIC METER/T	TONNE)		0.141		0.283		CMD
	onsumption (Consumpti	on of raw material					
per unit of product Name of Raw Mate			During the	Previous	During the	current	иом
			financial Ye		Financial ye		
EXPLOSIVES (KG/TON	NNE)		1.375		1.605		
4) Fuel Consumpti	on						
Fuel Name		Consent quanti	ity	Actual Qu	uantity	UO	
Diesel		0		2812		KL/	4
Part-C							
	ed to environment/unit	of output (Paramete	r as specified	in the conse	ent issued)		
[A] Water Pollutants Detail	Quantity of	Concentration of Po	allutante	Percentan	e of variation		
ronutants Detail	Pollutants	discharged(Mg/Lit)		from pres			
	discharged (kL/day)	PH,Temp,Colour			with reasons	a	_
WATER REPORT	Quantity 0	Concentration 0		%variatio	n	Standard	Keason
ATTACHED	O .	·					
[B] Air (Stack)							
Pollutants Detail	Quantity of	Concentration of			e of variation		
	Pollutants discharged (kL/day	discharged(Mg/Ni v)	M3)	from pres standards	cribed with reasons		
	Quantity	Concentration		%variatio		Standard	Reason
NO AIR STACK	0	0				-	-
MONITORING							

Part-D

5.1 Used or spent	oil	6			18	8			KL/A
5.2 Wastes or res	idues containi	ng oil 2			0				Ton/Y
2) From Pollution Hazardous Was		cilities	Total year	During Previou	ıs Financia		otal During Current ear	Financial	иом
35.3 Chemical slu	dge from was	te water treatmer	•			-	.87		Ton/Y
Part-E									
SOLID WASTES 1) From Process									
Non Hazardous OVERBURDEN	_	Total During P 2583000	revious I	Financial year	Total 19880		g Current Financial	year	<i>UOM</i> M3/Anum
2) From Pollutio			uuina Du	ovious Einonsi	al vaar	Total	During Commont Fina	maial was a	иом
Non Hazardous -	waste rype	0	uring Pr	evious Financia	-	1 ota 1 0	During Current Fina	nciai year	UOM CMD
3) Quantity Rec	ycled or Re-u	ıtilized within t	he						
unit Waste Type			Т	otal During Pre	evious Fina	ncial	Total During Curre	ent Financia	al UOM
0			y 0	ear			year 0		CMD
Part-F									
Please specify t						hazaı	rdous as well as soli	d wastes a	nd
1) Hazardous W Type of Hazardo		enerated	Otv o	f Hazardous W	aste	иом	Concentration of I	Hazardous	Waste
5.2 Wastes or res			0			Ton/Y	′ -		
35.3 Chemical slu	dge from was	te water treatmer	nt 7.87			Ton/Y	' -		
2) Solid Waste Type of Solid W	aste General	ted	Qty of S	olid Waste	иом		Concentration of Sc	olid Waste	
overburden			1988000		M3/Anur	m	onsite captive landfill		
Part-G									
Impact of the population.	ollution Cont	rol measures ta	ken on c	onservation of	natural re	sourc	es and consequently	on the co	st of
Description	Reduction in Water Consumption (M3/day)	Fuel & So	olvent	Reduction in Raw Material (Kg)	Reduction Power Consump (KWH)		Capital Investment(in Lacs)	Reduction Maintena 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:



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

Address

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

Plot no

Capital Investment (In lakhs) 25797.6

Pincode 442706

Telephone Number 8275968348

SRO-Chandrapur

Last Environmental statement submitted online

Region

yes

Consent Valid Upto

31/03/2021

Secondary (STC Code)

Industry Category Primary (STC Code) &

Application UAN number

88081

Taluka

Rajura

Scale LSI

Person Name

litendra Tiwari

Fax Number

07173230076

Industry Category

Red

Consent Number

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

Establishment Year

1985

Village

City

Chandrapur

Designation

Sub Area Manager

Email

envsocm@gmail.com

Industry Type

R35 Mining and ore beneficiation

Consent Issue Date

07/09/2020

Date of last environment statement submitted

Sep 19 2020 12:00:00:000AM

Product Information

Product Name Consent Quantity Actual Quantity UOM COAL 2.0 1.79 MT/A

By-product Information

By Product Name **Consent Quantity Actual Quantity** иом MT/A

1) Water Consum	ption in m3/day								
Water Consumpt Process			Consent 566	Quantity in	m3/day	Actual 566	Quantity in	n m3/da	у
Cooling			0			0			
Domestic			40			40			
All others			210			0			
Total			816			606			
2) Effluent Gener	ration in CMD / MLD)							
Particulars		_		Consent Q	uantity	Actual (Quantity	ι	ЈОМ
TRADE EFFLUENT				6604		6454.60	8	C	CMD
DOMESTIC EFFLUE	NT			20		20		C	CMD
	Process Water Con	sumption	(cubic meter o	of					
process water per Name of Products	er unit of product)			Durin	g the Previous	Dur	ing the curi	ront	иом
name of Froduce.	3 (1 roduction)				cial Year		ancial year	Circ	001-1
COAL				0.122		0.11	15		CMD
3) Raw Material (Consumption (Cons	umption o	of raw materia	I					
per unit of produ Name of Raw Ma				During t	the Previous	Duri	ng the curre	ent	иом
EXPLOSIVE				financia 3.83			ncial year		
4) Fuel Consump Fuel Name	tion		Consont au	antitu.	Actual	Ouantitu		UOI	M
Diesel			Consent qua	antity	4383	Quantity		KL/A	-
Part-C									
Dollation dischar		*/	outerat (Damana				(المحد		
[A] Water	ged to environmen	t/unit of c	output (Parame	eter as spec	inea in the con	sent Issu	ea)		
Pollutants Detail	Quantity of Pollutants discharged (k Quantity	d L/day) P	oncentration o ischarged(Mg/ H,Temp,Coloui oncentration	Lit) Except	from pro	age of va escribed ds with r	easons	andard	Reason
WATER REPORT ATTACHED IN PART	0	0	oncentration		-	.0	-	unuuru	-
[B] Air (Stack)									
Pollutants Detail	Quantity of Pollutants discharged (kL/day)		ntration of Pol rged(Mg/NM3)		Percentage of variation from prescribed state with reasons	ndards			
	Quantity		ntration		%variation		Standard		
-	0	0			-		-	NO STA	
Part-D									

HAZARDOUS WASTES

1) From Process

			Total During I year	rievious i ilialic	ciai io ye	tal During Current l ar	Financial	UOM
35.3 Chemical sludge from waste water treatment		te water treatment	17		35	35.46		Ton/\
art-E								
SOLID WASTES								
1) From Process		Total During Dro	vieus Einensie	Lucar Tot	hal Durine	. Current Einensiel		иом
	waste rype	Total During Pre	vious rinancia	-	_	Current Financial	,	UOM M2/Anuma
OVERBURDEN		12480000		104	151000			M3/Anum
2) From Pollutio	n Control Fa	cilities						
Non Hazardous			ring Previous F	inancial year	Total L	During Current Fina	ncial year	иом
		0			0			Ton/Y
	/cled or Re-u	ıtilized within the	<u> </u>					
<u>unit</u> Waste Type			Total Duri year	ing Previous Fi	nancial	Total During Curre	nt Financia	I UOM
0			0			0		Kg
0			0			0		Kg
art-F								
		istics(in terms of lopted for both th			of hazard	dous as well as solic	d wastes ar	nd
indicate disposa	l practice ad				of hazard	dous as well as solid	d wastes ar	nd
indicate disposa 1) Hazardous W	l practice ac	lopted for both th		s of wastes.		dous as well as solid		
indicate disposa 1) Hazardous Wo Type of Hazardo	al practice ac aste ous Waste Ge	lopted for both the	ese categories	s of wastes.		Concentration of		
 Hazardous Word Type of Hazardo Wastes or resi 	aste ous Waste Ge dues containin	lopted for both the	Qty of Hazard	s of wastes.	иом	Concentration of		
indicate disposa 1) Hazardous Wo Type of Hazardo 5.2 Wastes or resi 35.3 Chemical slu	aste ous Waste Ge dues containin	lopted for both the enerated ng oil	Qty of Hazard	s of wastes.	UOM Ton/\	Concentration of		
indicate disposa 1) Hazardous W. Type of Hazardo 5.2 Wastes or resi 35.3 Chemical slud 2) Solid Waste	aste ous Waste Ge dues containing	enerated ng oil te water treatment	Qty of Hazard	of wastes.	UOM Ton/\	Concentration of	Hazardous	
indicate disposa 1) Hazardous W. Type of Hazardo 5.2 Wastes or resi 35.3 Chemical slud 2) Solid Waste	aste ous Waste Ge dues containing	enerated ng oil te water treatment	Qty of Hazard 7.16 35.46	of wastes. Hous Waste Waste	UOM Ton/\	Concentration of	Hazardous	
 Hazardous Word Type of Hazardo Wastes or resi 	aste ous Waste Ge dues containing	enerated ng oil te water treatment	Qty of Hazard 7.16 35.46 Qty of Solid	of wastes. Hous Waste Waste	UOM Ton/\ Ton/\	Concentration of	Hazardous	
1) Hazardous Wo Type of Hazardo 5.2 Wastes or resi 35.3 Chemical slu- 2) Solid Waste Type of Solid Wa - Part-G	aste aste dues Waste Ge dues containin dge from wast	enerated ng oil te water treatment	Qty of Hazard 7.16 35.46 Qty of Solid I	of wastes. Hous Waste Waste U	UOM Ton/\ Ton/\ TOM on/Y	Concentration of	Hazardous olid Waste	Waste
indicate disposa 1) Hazardous Wa Type of Hazardo 5.2 Wastes or resi 35.3 Chemical sluce 2) Solid Waste Type of Solid Wa - Part-G	aste aste dues Waste Ge dues containin dge from wast	enerated ng oil te water treatment red	Qty of Hazard 7.16 35.46 Qty of Solid N 0	of wastes. Hous Waste Waste U	UOM Ton/\frac{1}{2} TOM on/\frac{1}{2} resource	Concentration of Concentration of So	Hazardous olid Waste	Waste
1) Hazardous Wa Type of Hazardo 5.2 Wastes or resi 35.3 Chemical slud 2) Solid Waste Type of Solid Wa Part-G	aste bus Waste Ge dues containing dge from wast aste Generat collution Cont	enerated ng oil te water treatment red rol measures take in Reduction Fuel & So	Qty of Hazard 7.16 35.46 Qty of Solid N 0	of wastes. Hous Waste Waste U Triangle of the second o	UOM Ton/\frac{1}{2} TOM on/\frac{1}{2} resource	Concentration of Concentration of So and consequently Capital	Hazardous olid Waste on the cos	Waste

Total During Previous Financial year

Total During Current Financial year

38.43

7.16

UOM

KL/A

Ton/Y

Hazardous Waste Type

5.2 Wastes or residues containing oil 2

2) From Pollution Control Facilities

5.1 Used or spent oil

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)

Mechanical road sweeping machine Capital Investment

40.0

Part-I

Any other particulars for improving the quality of the environment.

Particulars

Name & Designation

Sub Area Manager

UAN No:

MPCB-ENVIRONMENT STATEMENT-0000037571

Submitted On:



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 Application UAN number

88029 Sasti Underground Mine

Address

Near Sasti Village on Rajura Ballarpur road

Plot no Taluka Village 140, 141, 142 Rajura

Capital Investment (In lakhs) Scale Citv 2896 LSI Chandrapur

Pincode **Person Name** Designation 442706 Jitendra Tiwari Sub Area Manager

Telephone Number Fax Number **Email**

8275968348 07173230076 envballarpur@gmail.com

Industry Category Region **Industry Type**

SRO-Chandrapur Red R35 Mining and ore beneficiation

Last Environmental statement submitted **Consent Number** Consent Issue Date online

BO/JD(APC)/UAN no 01004/R/CC/ 2020-12-31 yes

1709000970

Date of last environment statement Consent Valid Upto Establishment Year submitted

2021-03-31 1916 Sep 19 2020 12:00:00:000AM

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

Product Information

Consent Quantity Actual Quantity UOM Product Name

0.36 COAL 0.076 MT/A

By-product Information

By Product Name **Consent Quantity Actual Quantity UOM** 0 MT/A

Water Consul Process	mption for	Consent Qu 2253.00	antity in m3/day	Actual Quantity 2253.00	in m3/day
Cooling		0.00		0.00	
Domestic		1071.00		1071.00	
All others		0.00		0.00	
Total		3324.00		3324.00	
2) Effluent Ge	eneration in CMD / M	LD	Consont Quantity	Actual Quantity	v UOM
TRADE EFFLUE	ENT		Consent Quantity 0	Actual Quantit y 0	CMD
		onsumption (cubic meter of			
	er per unit of product ducts (Production)	<u>)</u>	During the Previo	ous During the c Financial ye	
COAL			7.68	10.82	CMD
	rial Consumption (Co unit of product)	nsumption of raw			
Name of Raw			During the Previous	During the curre	nt UOM
EXPLOSIVE			financial Year 42000	Financial year 32000	Kg/Annum
4) Fuel Consu	umption				
Fuel Name HSD		Consent quan 0	tity Act (400)	ual Quantity ∩	UOM Ltr/A
Part-C					
Ballantan dia					
[A] Water	charged to environme	ent/unit of output (Parame	ter as specined in the	consent issued)	
Pollutants Detail	Quantity of Pollutants discharged	Concentration of Pollu discharged(Mg/Lit) Ex PH,Temp,Colour	cept from pres	ge of variation scribed s with reasons	
	(kL/day) Quantity	Concentration	%variatio	n Stand	ard Reason
-	0	0	-	-	NO TRADE EFFLUENT
[B] Air (Stack					
Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollo discharged(Mg/NM3)	variation fi prescribed with reaso	rom standards ns	
-	Quantity 0	Concentration 0	%variation -	Standa -	rd Reason NO STACK EMMISSION
Part-D					
HAZARDOUS					
1) From Proce Hazardous W		Total During F vear		Total During Current vear	Financial UOM

year year 5.1 Used or spent oil 0 0

3) Quantity Recycled or Re-utilized within the

2) From Pollution Control Facilities			
Hazardous Waste Type	Total During Previous Financial	Total During Current Financial	UOM
	year	year	
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

unit				
Waste Type	Total During Previous Financial	Total During Current Financial	UOM	
	year	year		
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 0	Qty of Hazardous Waste 0	UOM Ton/Y	Concentration of Hazardous Waste
2) Solid Waste Type of Solid Waste Generated	Qty of Solid Waste 0	<i>UOM</i> Ton/Y	Concentration of Solid Waste

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

[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:



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

Address

POST-BHATADI

Plot no

Document uploaded

Capital Investment (In lakhs)

26925.84

Pincode 442404

Telephone Number

07172-220363

Region

SRO-Chandrapur

Last Environmental statement submitted online

yes

Consent Valid Upto

31.03.2021

Industry Category Primary (STC Code) &

Secondary (STC Code)

Application UAN number

MPCB-CONSENT-0000088190

Taluka

Chandrapur

Scale

L.S.I

Shri. Devendra Prasad

Fax Number

Person Name

Industry Category

Red

1995

Consent Number

MPCB-CONSENT-0000088190 08.05.2020

Establishment Year

Date of last environment statement

Village

City

Email

Bhatadi Village

Chandrapur

Designation

Sub Area Manager

Industry Type

wclchaenv@gmail.com

Consent Issue Date

submitted

Aug 28 2020 12:00:00:000AM

R35 Mining and ore beneficiation

Product Information

Product Name Consent Quantity Actual Quantity UOM Coal 1.465 1.231 MT/A

By-product Information

By Product Name **Consent Quantity Actual Quantity UOM** NA 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

Process		500			500		
Cooling		-			-		
Domestic		65			65		
All others		-			-		
Total		565			565		
2) Effluent Genera	ntion in CMD / MLD						
Particulars Daily Trade Effluent		Coi 932	nsent Quantit 20	У	Actual Quantity 18245	y	UOM CMD
							_
2) Product Wise P	rocess Water Consumpt unit of product)	ion (cubic meter of					
Name of Products	(Production)		During the lift		During the Financial ye		UOM
Mining			0.0997	aı	0.148	zai	CMD
3) Raw Material Co	onsumption (Consumpti	on of raw material					
Name of Raw Mate			During the P		During the		UOM
Explosive (Kg/Tonne	.)		financial Yea	ar	Financial ye 2.33	ear	
explosive (kg/Tollile	:)		0.910		2.33		
4) Fuel Consumpti	ion						
Fuel Name		Consent quantity	•	Actual Q	uantity	U	ОМ
Diesel		-		4033.25		KL	<u>.</u> /A
Part-C							
	ed to environment/unit	of output (Parameter	as specified i	n the cons	sent issued)		
[A] Water Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Podischarged (Mg/Lit) E		from pre	age of variation escribed ds with reasons		
	Quantity	Concentration		%variati	ion	Standar	d Reasor
Monitoring Report Enclosed in Step-I	-	-		-		-	-
[B] Air (Stack)	0			.			
Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollo discharged(Mg/NM3)		from pres	ge of variation cribed with reasons		
No Stack Monitoring	Quantity -	Concentration -		%variatio -	n	Standar -	d Reasoi -
Part-D							
HAZARDOUS WAS	TES						
1) From Process	Type Total During Pre-	vious Einansial voor	Total	During C	irront Einamaial :	voar.	UOM
5.1 Used or spent oi	Type Total During Prev 30.20	rious rilianciai year	28.23	During Cl	ırrent Financial y	rear .	KL/A
J.1 OJCU OI SPEIR OI	1 30.20		20.23				KL/A

Hazardous Waste Type

5.2 Wastes or residues containing oil 5.80 1.04 35.3 Chemical sludge from waste water treatment 42.85 23.22		
5.2 Wastes or residues containing oil 5.80 1.04	Ton/Y	
	Ton/Y	

Non Hazardous Waste Type	Total During Previous Financial year	Total During Curren
1) From Process		
SOLID WASTES		

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	иом
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			
· · · · · · · · · · · · · · · · · · ·	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

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

35.3 Chemical sludge from waste water treatment 23.22

Ton/Y Disposed by MEPL

[B] Investment Proposed for next Year

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

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:

 ${\tt MPCB-ENVIRONMENT_STATEMENT-0000033502}$

Submitted On:

20-07-2021



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

Address

Plot no

Post- Babupeth

Document attached

Capital Investment (In lakhs)

1898.00

Pincode 442401

Telephone Number

8275967921

SRO-Chandrapur

Last Environmental statement submitted

online

Region

yes

Consent Valid Upto

31.12.2020

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

Application UAN number

MPCB-CONSENT-0000066146

Taluka

Chandrapur

Scale

LSI

Person Name Shri. G. D. Khobragade

Fax Number

07172-255287

Industry Category

Red

Consent Number

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

Establishment Year

1954

Village

Rayatwari Area

City

Chandrapur

Designation

Colliery Manager

Email

crcchandrapur@gmail.com

Industry Type

R35 Mining and ore beneficiation

Consent Issue Date

Date of last environment statement

submitted

May 19 2020 12:00:00:000AM

Product Information

Product Name Consent Quantity Actual Quantity UOM 0.06 0.00 Coal MT/A

By-product Information

By Product Name **Consent Quantity Actual Quantity UOM** MT/A

Part-B (Water & Raw Material Consumption)

Process	on for	Consent C 170	Quantity in m3/day	Actual Quant 100	tity in m3/da	ay
Cooling		-		-		
Domestic		185		170		
All others		-		-		
Total		355		270		
2) Effluent Genera	tion in CMD / MLD					
Particulars Daily Trade Effluent			Consent Quantity 0.00	Actual Quant 50.00	ity	UOM CMD
	rocess Water Consumpt	tion (cubic meter of				
process water per Name of Products			During the Pre			UOM
Mining			financial Year 0.00	Financial 0.00	year	CMD
3) Raw Material Co	onsumption (Consumpti	ion of raw				
material per unit of Name of Raw Mate			During the Previous	During the cur	ront	иом
Name of Naw Mate	er iais		financial Year	Financial year		OOM
Explosive		(0.00	0.00		Kg/Annum
4) Fuel Consumpti	<u>ion</u>					
4) Fuel Consumpti Fuel Name Diesel	<u>ion</u>	Consent quant	-	Actual Quantity	UC KL	
Fuel Name	<u>ion</u>	Consent quant 9.00	-	Actual Quantity 0.00	UC KL	
Fuel Name Diesel Part-C Pollution discharg	ed to environment/unit	9.00	C	0.00		
Fuel Name Diesel Part-C		9.00 of output (Paramet Concentration of F discharged(Mg/Lit	er as specified in the Pollutants Pe) Except fro sta	0.00	KL	/A
Fuel Name Diesel Part-C Pollution discharg [A] Water	ed to environment/unit Quantity of Pollutants discharged (kL/day)	9.00 of output (Paramet Concentration of F discharged(Mg/Lit PH,Temp,Colour	er as specified in the Pollutants Pe) Except fro sta	e consent issued) rcentage of variation m prescribed andards with reasons	KL,	/A
Fuel Name Diesel Part-C Pollution discharg [A] Water Pollutants Detail Water Report	ed to environment/unit Quantity of Pollutants discharged (kL/day)	9.00 of output (Paramet Concentration of F discharged(Mg/Lit PH,Temp,Colour	er as specified in the Pollutants Pe) Except fro sta	e consent issued) rcentage of variation m prescribed andards with reasons	KL,	/A
Fuel Name Diesel Part-C Pollution discharg [A] Water Pollutants Detail Water Report Attached in I	ed to environment/unit Quantity of Pollutants discharged (kL/day)	9.00 of output (Paramet Concentration of F discharged(Mg/Lit PH,Temp,Colour	er as specified in the Pollutants Per Star Star Per Star	e consent issued) rcentage of variation m prescribed andards with reasons	KL,	l Reasor

HAZARDOUS WASTES
1) From Process

Hazardous Waste Type Total During Previous Financial year
0 NA

Total During Current Financial year ${\sf NA}$

UOM Ton/Y

2) From Pollution Control Fa	cilities					
Hazardous Waste Type		uring Previous Financial year	Total	During Current Finan	cial year	UOM
0	NA		NA			Ton/Y
Part-E						
SOLID WASTES						
1) From Process						
Non Hazardous Waste Type	Total E	Ouring Previous Financial year	Total L	During Current Financ	cial year	UOM
NA	NA		NA			M3/Anum
2) From Pollution Control Fa	cilities					
Non Hazardous Waste Type		Total During Previous Financial ye	ar 1	otal During Current I	inancial year	UOM
NA		NA	N	IA		Ton/Y
3) Quantity Recycled or Re-	ıtilized	within the				
unit						
Waste Type		Total During Previous year	s Finan	cial Total During Cu year	rrent Financia	il UOM
0		NA		NA		Ton/Y
Part-F						
		terms of concentration and quant for both these categories of wastes.		hazardous as well as	solid wastes a	nd
1) Hazardous Waste						
Type of Hazardous Waste Go	enerate	d Qty of Hazardous Waste	UOI	M Concentration of	^F Hazardous W	'aste
0		NA	Ton	/Y NA		
2) Solid Waste						
Type of Solid Waste General	ted	Qty of Solid Waste	UOM	Concentration of	of Solid Waste	
NA		NA	Ton/\	/ NA		
Part-G						
Impact of the pollution Cont	rol mea	sures taken on conservation of nat	ural res	ources and conseque	ntly on the co	st of
p						

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	0.00	0.00	0.00	3328	0.00	-

Part-H

Measures

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 Capital Investment (Lacks) Measures 0.00 0.00 Capital Investment

[B] Investment Proposed for next Year

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

Capital Investment Air & Water Pollution Control Measures 8.02

Part-I

Any other particulars for improving the quality of the environment.

Particulars

Attachments as asked

Name & Designation

Shri. G. D. Khobragade, Colliery Manager

IIAN No:

MPCB-ENVIRONMENT_STATEMENT-0000033425

Submitted On:



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

Address

POST-DURGAPUR

Plot no Document uploaded

Capital Investment (In lakhs)

29685.88

Pincode 442404

Telephone Number

8275967702

Region

SRO-Chandrapur

Last Environmental statement submitted

online

yes

Consent Valid Upto

31.03.2021

Industry Category Primary (STC Code) &

Secondary (STC Code)

Application UAN number

MPCB-CONSENT-0000066122

Taluka

Chandrapur

Village

City

Durgapur, WCL-Chandrapur Area

Scale

L.S.I

Chandrapur

Person Name Designation Shri. Arun M. Lakhe Sub Area Manager

Fax Number

Email durgapurocwcl@gmail.com

Red

Industry Category Industry Type

R35 Mining and ore beneficiation

Consent Number

Consent Issue Date

MPCB-CONSENT-0000066122 20.05.2020

Establishment Year

Date of last environment statement

submitted

1980 Jul 27 2020 12:00:00:000AM

Product Information

Product Name Consent Quantity Actual Quantity UOM 3.00 1.74 Coal MT/A

By-product Information

By Product Name **Consent Quantity Actual Quantity UOM** MT/A

Part-B (Water & Raw Material Consumption)

1) Water Consump							
Water Consumption Process		Consent Qual	ntity in m3/day		Actual Quantit 550	y in m3/da	y .
Cooling		-		_			
Domestic		1500		3	.500		
All others		-		-			
Total		2050		2	2050		
2) Effluent Genera	tion in CMD / MLD						
Particulars			sent Quantity		Actual Quantity	y	UOM
Daily Trade Effluent		269	0	2	2050		CMD
2) Product Wise Process water per	rocess Water Consumpt	ion (cubic meter of					
Name of Products			During the Prev	rious	During the o		иом
Mining			0.106		0.115	a.	KL/A
3) Raw Material Co	onsumption (Consumpti	on of raw material					
per unit of produc Name of Raw Mate			Description that Descrip	•	Danis a tha	-	иом
Name of Kaw Mate	eriais		During the Previ financial Year	ious	During the o		UOM
Explosives (Kg/Tonno	e)		1.65		2.68		
4) Fuel Consumpti	on						
Fuel Name		Consent quantity		tual Qua	ntity	UC	
Diesel		-	452	22.35		KL,	'A
Part-C							
	ed to environment/unit	of output (Parameter a	as specified in th	e conser	nt issued)		
[A] Water	Quantity of	Concentration of Pol	lutants Pe	rcentage	e of variation		
Pollutants Detail	Pollutants discharged (kL/day)	discharged(Mg/Lit) E	ixcept fro sta	om presc andards variation	with reasons	Standard	l Reason
Monitoring Report Enclosed in Step-I	Pollutants	discharged(Mg/Lit) E PH,Temp,Colour	ixcept fro sta	andards	with reasons	Standard -	Reason -
Monitoring Report Enclosed in Step-I	Pollutants discharged (kL/day) Quantity	discharged(Mg/Lit) E PH,Temp,Colour Concentration -	except fro sta %v -	andards variation	with reasons	Standard -	Reason -
Monitoring Report	Pollutants discharged (kL/day)	discharged(Mg/Lit) E PH,Temp,Colour	ixcept fro sta %v - itants Pero fron stan	andards variation centage (n prescri	with reasons		Reason

HAZARDOUS WAS	TES
1) From Process	

Hazardous Waste Type Total During Previous Financial year 5.1 Used or spent oil 37.17 41.58

Total During Current Financial year UOM KL/A

2) From Pollution Control Facilities			
Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	ИОМ
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

Non Hazardous Waste Type	Total During Previous Financial year	Total During Curren
1) From Process		
SOLID WASTES		

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Overburden	15972.60	26712.33	CMD

2) From Pollut	ion 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	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

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
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.

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	0.00	-1.2	-1542207	7658167	14.15	-

Part-H

Measures

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 Pollution Control Measures 14.15

[B] Investment Proposed for next Year

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

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:



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

Address

Post- Chandrapur

Plot no

338/7

Capital Investment (In lakhs)

6591.85

Pincode

442401

Telephone Number

8806458486

Region

SRO-Chandrapur

Last Environmental statement submitted online

yes

Consent Valid Upto

31.03.2021

Industry Category Primary (STC Code) &

Secondary (STC Code)

Application UAN number

MPCB-CONSENT-0000066166

Taluka

Chandrapur

Scale

L.S.I

Person Name Shri, U. B. Bodhe

Fax Number

Industry Category

Red

1982

Consent Number

MPCB-CONSENT-0000066166 22.05.2020

Establishment Year

submitted

Jun 12 2020 12:00:00:000AM

Village

City

Email

Rayatwari Area

Chandrapur

Designation

Sub Area Manager

agentrsa@gmail.com

Consent Issue Date

R35 Mining and ore beneficiation

Date of last environment statement

Industry Type

Product Information

UOM Product Name Consent Quantity Actual Quantity 0.92 0.049 Coal MT/A

By-product Information

Bv Product Name Consent Quantity Actual Quantity UOM NA Ton/Y

Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption Process	n for	Consent (Quantity in m3	g/day	Actual Quantit 80	ty in m3/d	ay	
Cooling		-			-			
Domestic		200			161			
All others		-			-			
Total		200			241			
		200			211			
2) Effluent Generat	ion in CMD / MLD							
Particulars			Consent Quant	tity	Actual Quantit	У	UOM	
Daily Trade Effluent			3750		3750		CMD	
	ocess Water Consumpti	on (cubic meter of						
process water per (Name of Products (During the	e Previous	During the	current	иом	
Name of Froducts (Troduction		financial \		Financial ye		001-1	
Mining			0.158		0.495		CMD	
3) Raw Material Co material per unit o	nsumption (Consumption for product)	on of raw						
Name of Raw Mate	-		Ouring the Presinancial Year	vious	During the curre Financial year	ent	иом	
Explosives		0.414			0.477		Kg/Annum	
4) Fuel Consumption	on							
Fuel Name		Consent quan	tity	Actual (Quantity	U	OM .	
Diesel		-		22.875		KL	/A	
Part-C								
	ed to environment/unit	of output (Paramet	er as specified	d in the con	sent issued)			
[A] Water Pollutants Detail	Quantity of	Concentration of I	Pollutants	Percent	age of variation			
Poliutalits Detail	Pollutants	discharged(Mg/Lit			escribed			
	discharged (kL/day)	• •			ds with reasons			
Makan Danank	Quantity	Concentration		%variat	ion	Standard	d Reason	
Water Report Attached in Part I	-	-		-		-	-	
[B] Air (Stack)								
Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of discharged(Mg/N		from pre	age of variation escribed ds with reasons			
	Quantity	Concentration		%variati		Standard	d Reason	
No Air Stack Monitoring	-	-		-		-	-	
Part-D								
HAZARDOUS WAST	ES							

Total During Current Financial year

NA

UOM

Ton/Y

2) From Pollution Control Facilities

Hazardous Waste Type Total During Previous Financial year

NA

1) From Process

SC	OLID	WA.	STES	
1)	Fro	m Pi	roces	9

Non Hazardous Waste TypeTotal During Previous Financial yearTotal During Current Financial yearUOMOverburdenNANAM3/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

NA
Total During Current Financial UOM year

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

NA Ton/Y NA

2) Solid Waste

Type of Solid Waste GeneratedQty of Solid WasteUOMConcentration of Solid WasteOverburdenNATon/YNA

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	-1	0.0005	40784	-1889304	15.00	-

Part-H

Measures

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 ProtectionEnvironmental Protection
MeasuresCapital InvestmentCapital InvestmentCapital InvestmentWater Pollution Control15.00

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

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:



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

Last Environmental statement submitted online

Industry Category Primary (STC Code) &

Address

POST-HINDUSTAN LALPETH COLLIERY

Plot no

NA

Capital Investment (In lakhs)

81.56

Pincode

442507

Telephone Number

8275967593

Region

SRO-Chandrapur

no

Consent Valid Upto

31.03.2025

NA

Application UAN number

MPCB-CONSENT-0000089028

Taluka

Chandrapur

Scale

L.S.I

Person Name Shri. Satish Kumar Sinha

Fax Number

Industry Category

Green

Consent Number

MPCB-CONSENT-0000089028 26.05.2020

Establishment Year

1924

Village

WCL-CHANDRAPUR AREA

Citv

Email

Chandrapur

Designation Mine Manager

managerhlc1@gmail.com

G59 Mineral stack yard / Railway sidings

Consent Issue Date

Industry Type

Date of last environment statement

submitted

May 19 2020 12:00:00:000AM

Product Information

Product Name

Secondary (STC Code)

Loading & Unloading of Coal

Consent Quantity 4.00

Consent Quantity

Actual Quantity

0.156

UOM MT/A

By-product Information

Water Consumption for

By Product Name

Actual Quantity

иом

MT/A

Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Consent Quantity in m3/day

Actual Quantity in m3/day

Process		0.00				52.0	0		
Cooling		-				_			
Domestic		1.00				0.00			
All others		-				-			
Total		1.00				52.0	0		
		1.00				32.0	O		
2) Effluent Generati	ion in CMD / MLD								
Particulars			Consent	Quantity	,		ual Quantit	У	UOM
Daily Trade Effluent			0.00			0.00			CMD
2) Product Wise Pro	ocess Water Consumpti	on (cubic meter of	process						
water per unit of pr	oduct)		•	D			D		
Name of Products (Production)			During financia	the Previ al Year	ous	During th Financial	e current year	UOM
Loading & Unloading	of Coal (Cubic Meter/Tonn	e)		-			0.122		CMD
3) Raw Material Co.	nsumption (Consumption	on of raw material							
per unit of product)		ni oi raw materiar							
Name of Raw Mater	rials			the Prev al Year	vious		iring the c nancial yea		UOM
NA			NA			NA	_		
4) Fuel Consumptio	<u>n</u>								
Fuel Name		Consent quant	ity		Actual Q	uanti	ity		OM
Diesel		0.00			10.585			KL	/A
Part-C									
	d to environment/unit o	of output (Paramet	er as spe	cified in	the cons	ent is	ssued)		
[A] Water Pollutants Detail	Quantity of	Concentration of	Ballutant	•	Porconta	ao of	variation		
Poliutalits Detail	Pollutants	discharged(Mg/Lit			from pres	cribe	ed		
	discharged (kL/day) Quantity	PH,Temp,Colour Concentration			standard: %variatio		h reasons	Standard	l Reason
Water Report attached in Step-I	-	-			- -	,,,,		-	- -
[B] Air (Stack)									
Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of discharged (Mg/Ni		f	Percentag from pres standards %variation	cribe with	d	Standard	l Reason
No Air Stack Monitoring	NA	NA		•	NA			NA	NA
Part-D									

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type Total During Previous Financial year Total During Current Financial year 0 NA NA NA MT/A

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 NA NA MT/A

2) From Pollution Control Facilities

Non Hazardous Waste Type

NA

Total During Previous Financial year

NA

NA

Total During Current Financial year

NA

MT/A

3) Quantity Recycled or Re-utilized within the unit

Waste Type

Total During Previous Financial year

NA

Total During Current Financial UOM year

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	0.00	0.221	NA	0.00	0.00	-

Part-H

Measures

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

Part-I

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:



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

Address

POST-LALPETH

Plot no

document uploaded

Capital Investment (In lakhs)

5713.41

Pincode

Telephone Number

8275967560

Region

SRO-Chandrapur

Last Environmental statement submitted online

yes

Consent Valid Upto

31.03.2021

Industry Category Primary (STC Code) &

Secondary (STC Code)

Application UAN number

MPCB-CONSENT-0000089061

Taluka

Chandrapur

Scale

L.S.I

Person Name

Shri. Manish Podey

Fax Number

07172-225264

Industry Category

Red

1985

Consent Number

MPCB-CONSENT-0000089061 17.06,2020

Establishment Year

Date of last environment statement

Consent Issue Date

submitted

Village

City

Email

Chandrapur Area

Chandrapur

Designation

Sub Area Manager

Industry Type

hlsubarea@gmail.com

Apr 27 2020 12:00:00:000AM

R35 Mining and ore beneficiation

Product Information

Product Name Consent Quantity Actual Quantity UOM Coal 1 0 MT/A

By-product Information

By Product Name **Consent Quantity Actual Quantity** иом NA 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

Process		1190			90		
Cooling		-			-		
Domestic		8			6		
All others		-			-		
Total		1198			96		
2) Effluent Generat	ion in CMD / MLD						
Particulars Daily Trade Effluent		Cor 102	nsent Quan 25	ntity	Actual Quanti 4384	ty	UOM CMD
2) Product Wise Proprocess water per u	ocess Water Consump	tion (cubic meter of					
Name of Products (the Previous	During the		иом
Mining			financia 0	al Year	Financial 0	year	CMD
3) Raw Material Colper unit of product	nsumption (Consumpt	tion of raw material					
Name of Raw Mater			During the financial \	e Previous ⁄ear	During the Financial ye		ИОМ
Explosives			0		0		
4) Fuel Consumptio	n						
Fuel Name		Consent quantity	,	Actual Qu	antity		OM
Diesel		-		28.178		KL,	/A
Part-C							
	d to environment/uni	t of output (Parameter	as specifie	d in the conse	ent issued)		
[A] Water Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Po discharged(Mg/Lit) PH,Temp,Colour Concentration		Percenta variation prescribe with reas %variatio	from ed standards sons	Standard	i Reason
As per the Water Quality Report Attach in Part-I	-	-		-		-	-
	Quantity of Pollutants discharged (kL/day)	Concentration of Pollo discharged(Mg/NM3)	utants	from presc standards	with reasons		
No Stack Monitoring	Quantity -	Concentration -		%variation -		Standard -	l Reason -
Part-D							
HAZARDOUS WAST	ES						

Total During Current Financial year

UOM

KL/A

2) From Pollution Control Facilities

Hazardous Waste Type Total During Previous Financial year

1) From Process

5.1 Used or spent oil

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
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 WAS	TES
1) From Pro	ocess

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

2) From Pollution Control Facilities

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

3) Quantity Recycled or Re-utilized within the unit

Waste TypeTotal During Previous Financial yearTotal During Current Financial yearUOM year5.1 Used or spent oil--KI

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	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

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
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.

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	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:



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

Address

Post- Hindustan Lalpeth

Plot no

Document uploaded

Capital Investment (In lakhs)

724.62

Pincode

Telephone Number 8275967795

Region

SRO-Chandrapur

Last Environmental statement submitted online

yes

Consent Valid Upto

31.03.2023

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

Coal

Application UAN number

MPCB-CONSENT-0000088025

Taluka

Chandrapur

Scale

L.S.I

Person Name

Shri. R. K. Singh

Fax Number

07172-255158

Industry Category

Red

1999

Consent Number

MPCB-CONSENT-0000088025 26.02.2021

Establishment Year

Date of last environment statement submitted

Jun 22 2020 12:00:00:000AM

Product Information

Product Name

0.15

Consent Quantity

Actual Quantity

0.072

Village

City

Email

Lalpeth Area

Chandrapur

Designation

Mine Manager

Industry Type

manna.safety@gmail.com

Consent Issue Date

R35 Mining and ore beneficiation

UOM MT/A

By-product Information

Water Consumption for

By Product Name

NA

Consent Quantity

Actual Quantity

UOM

CMD

Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Consent Quantity in m3/day

Actual Quantity in m3/day

Cooling		-			-		
Domestic		4			4		
All others		-			-		
Total		83			17.50		
2) Effluent Generatio	n in CMD / MLD						
Particulars Daily Trade Effluent			Consent Quant	tity	Actual Quantit 68	-	<i>UOM</i> CMD
Daily Hade Ellident							CIVID
	ess Water Consumptio	n (cubic meter of					
process water per un Name of Products (Pi			Durina tl	he Previous	During the	current	UOM
			financial		Financial y		
Mining (Cubic Meter/To	nne)		0.0447		0.0572		CMD
	sumption (Consumption	n of raw material					
per unit of product) Name of Raw Materia	als		During the Pre	vious	During the curre	ent	иом
			financial Year		Financial year		
Explosive (Kg/Tonne)			0.342		0.398		Kg/Annum
4) Fuel Consumption							
Fuel Name		Consent quant	tity	Actual Qu	ıantity	UO	
Diesel		-		1851.35		KL/	А
Part-C							
	to environment/unit of	f output (Paramet	er as specified	in the cons	ent issued)		
[A] Water Pollutants Detail	Quantity of	Concentration o	f Pollutants	Percenta	age of		
	Pollutants	discharged(Mg/		variatio	n from		
	discharged (kL/day)	PH,Temp,Coloui		with rea	ed standards sons		
	Quantity	Concentration		%variati	ion	Standard	Reason
MONITORING REPORT UPLOADED AT STEP I	-	-		-		-	-
[B] Air (Stack)							
Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of discharged (Mg/I		from pres standard	s with reasons		
	Quantity	Concentration		%variatio	on	Standard	Reason
NO CTACK	-	-		-		-	-
NO STACK MONITORING Part-D							

Total During Current Financial year

NA

UOM

Ton/Y

Hazardous Waste Type Total During Previous Financial year

NA

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

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:



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

Address

Post- Babupeth

Plot no 423

Capital Investment (In lakhs)

2355.00 Pincode

442403 Telephone Number

8275967536

Region

SRO-Chandrapur

Last Environmental statement

submitted online

yes

Consent Valid Upto

31.03.2022

Coal

Bv Product Name

NA

Application UAN number

Taluka Chandrapur

Scale L.S.I

Person Name VIJAY SHANKAR TIWARI

Fax Number 07172-251346

Industry Category

Red

Consent Number

BO/JD(APC)/UAN No. 64952/R/CC - 1422 24/12/2019

Establishment Year

1922

MPCB-CONSENT-0000064952

Village

Rayatwari Area

Citv

Chandrapur

Designation MINE MANAGER

Email

mahakalicolliery@gmail.com

Industry Type

R35 Mining and ore beneficiation

Consent Issue Date

Date of last environment statement submitted

May 18 2020 12:00:00:000AM

Product Information Product Name

By-product Information

& Secondary (STC Code)

Industry Category Primary (STC Code)

Consent Quantity UOM Actual Quantity 0.4 0.081 MT/A

Consent Quantity

Actual Quantity

UOM

MT/A

Part-B (Water & Raw Material Consumption)

Water Consumption Process	for	Consent Quantit 115	y in m3/day	Actual Quantit 115	ty in m3/d	lay	
Cooling		-		-			
Domestic		250		250			
All others		_		_			
Total		365		365			
2) Effluent Generation	on in CMD / MLD						
Particulars DAILY TRADE EFFLUEN	IT	Conser 4250	nt Quantity	Actual Quantit 4100	ty	CN CN	ЭМ ИD
	cess Water Consumptio	on (cubic meter of					
process water per u Name of Products (F		Du	ring the Previous	During the	curront		иом
Name of Products (F	Production)		ancial Year	Financial ye			ООМ
Mining		0.4	14	0.435			CMD
3) Raw Material Con material per unit of	sumption (Consumption	n of raw					
Name of Raw Materi	-	During t financia	the Previous I Year	During the curre Financial year	ent	UC	М
Explosives		0.294		0.217		Kg,	/Annum
4) Fuel Consumption	<u>n</u>						
Fuel Name		Consent quantity		l Quantity	_	IOM	
Diesel		16.425	12.017		K	L/A	
Part-C							
	d to environment/unit o	f output (Parameter as s	pecified in the cor	nsent issued)			
[A] Water Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Polluta discharged(Mg/Lit) Exce PH,Temp,Colour Concentration	pt from p	tage of variation rescribed rds with reasons tion	Standar	d F	Reason
WATER REPORT ATTACHED IN PART1	-	-	-		-	-	
[B] Air (Stack)							
Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollut discharged(Mg/NM3) Concentration	from pi	tage of variation rescribed rds with reasons tion	Standaı	d F	Reason
NO AIR STACK MONITORING	-	-	-		-	-	
Part-D							
HAZARDOUS WASTE 1) From Process	<u>:s</u>						

Total During Current Financial year

UOM KL/A

Hazardous Waste Type Total During Previous Financial year

Hazardous Was	te Type	Total During Previo	us Financial year	Total Duri	ng Current Finan	cial year	UOM Ton/Y
Part-E							
SOLID WASTES 1) From Proces Non Hazardous	_	Total During Previo	us Financial year	Total Dui 0	ring Current Final	ncial year	UOM CMD
2) From Pollution Non Hazardous			g Previous Financi	al year Total -	During Current F	inancial year	UOM CMD
3) Quantity Red	cycled or Re-u	utilized within the					
Waste Type			_	evious Financial	_	ırrent Financial	UOM
0			year -		year -		CMD
Part-F							
		istics(in terms of co lopted for both thes			rdous as well as s	solid wastes and	<u>d</u>
1) Hazardous W	/aste						
Type of Hazard	ous Waste Ge	enerated Qt -	y of Hazardous W	aste UOM CMD	Concentration of	Hazardous Was	ste
2) Solid Waste Type of Solid W	/aste Generat	red Q	ety of Solid Waste	UOM CMD	Concentration o	f Solid Waste	
Part-G							
Impact of the p	ollution Cont	rol measures taken	on conservation o	f natural resourc	es and conseque	ntly on the cost	of
Description	Reduction in Water Consumptio (M3/day)	Fuel & Solven		Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction Maintenand Lacs)	
Impact of pollution control measures	-13	-0.02	6890	-2665520	0.00	-	
Part-H							
		nent proposal for en the period of Enviro		ection abatement	of pollution, pre	vention of pollu	ıtion.
Statement Detail of measu	ıres for Envir	onmental Protection	Env	ironmental Prote	ection Measures	Capital Investm (Lacks)	nent

Air & water Pollution Control Measures

0.00

CAPITAL EXPENDITURE

Detail of measures for Environmental Protection

Environmental Protection Measures

Capital Investment (Lacks)

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:



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

Address

Po- Nandgaon (Pode)

Plot no

Capital Investment (In lakhs)

1453.00

Pincode

442403

Telephone Number

07172225158

Region

SRO-Chandrapur

Last Environmental statement submitted

online yes

Consent Valid Upto

31.03.2021

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

Application UAN number

MPCB-CONSENT-0000066246

Taluka

Chandrapur

Scale

LSI

Person Name Shri. Prafulla KumarR

Fax Number

Red

1980

Industry Category

Consent Number

BO/JDAPW/UAN NA 22310/R/CC-1046 24.12.2019

Establishment Year

Date of last environment statement

submitted

Village

Citv

Email

Nandgaon (Pode)

Chandrapur

Designation

Mine Manager

Industry Type

Consent Issue Date

Jun 12 2020 12:00:00:000AM

managernicha@gmail.com

R35 Mining and ore beneficiation

Product Information

Product Name Consent Quantity Actual Quantity UOM 0.30 0.077 COAL MT/A

By-product Information

Bv Product Name Consent Quantity Actual Quantity UOM NA CMD

Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption Process	for	Consent Q 172	uantity in m3/	day	Ac 17	tual Quantit 2	y in m3/d	ay	
Cooling		-			-				
Domestic		310			31	0			
All others		-			_				
Total		482			48	2			
2) Effluent Generati	on in CMD / MLD								
Particulars Daily trade effluent			Consent Quant 5508	ity	Ac : 486	tual Quantit 50	У	CM	DM 11D
2) Product Wise Pro	ocess Water Consumptio	on (cubic meter of							
process water per u	nit of product)	<u> </u>					_		
Name of Products (I	Production)		During financia	the Previo al Year	us	During the Financial y			UOM
Coal (CUBIC METER/TO	DNNE)		0.636	-		0.684	, Са.		CMD
	nsumption (Consumption	n of raw material							
per unit of product) Name of Raw Mater			During the Pr			ing the curr ancial year	ent	UC	М
EXPLOSIVES (KG/TONN	NE)		0.307		0.35	-		Kg,	/Annum
4) Fuel Consumption	<u>n</u>								
Fuel Name		Consent quantit	У	Actual	Quan	itity	_	ОМ	
HSD		7.289		6.924			KI	_/A	
Part-C									
Pollution discharge	d to environment/unit o	f output (Paramete	er as specified	in the con	sent	issued)			
[A] Water Pollutants Detail	Quantity of Pollutants discharged (kL/day)	• •		from pr standaı	escril ds wi	of variation bed ith reasons	Gt- u da u		
WATER REPORT ATTACHED IN STEP I	Quantity -	Concentration -		%variat -	ion		Standar -	a r	(easor
IDI Air (Charle)									
[B] Air (Stack) Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of discharged(Mg/N		from pr	escril ds wi	of variation ped th reasons	Standar	d F	Reasor
NO AIR STACK MONITORING	-			-			-	-	
Part-D									
HAZARDOUS WASTE	ES								

Total During Current Financial year

NA

UOM

KL/A

2) From Pollution Control Facilities

Hazardous Waste Type Total During Previous Financial year

NA

Detail of measures for Environmental ProtectionCAPITAL EXPENDITURE

Environmental Protection Measures Capital Investment (Lacks)

Air Pollution Control measures 0.00

Statement

Detail of measures for Environmental Protection Environmental Protection Measures Capital Investment (Lacks) 57.60

CAPITAL INVESTMENT

Water Pollution Control measures

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:



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

Address

POST-PADMAPUR

Plot no

document uploaded

Capital Investment (In lakhs)

21404.65

Pincode

Telephone Number

9405743912

Region

SRO-Chandrapur

Last Environmental statement submitted

online

yes

Consent Valid Upto

31.03.2022

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

Application UAN number

MPCB-CONSENT-0000098267

Taluka

Chandrapur

Scale

L.S.I

Person Name Shri. Devendra Prasad

Fax Number

Red

1985

Consent Number

Village

WCL-CHANDRAPUR AREA

City

Chandrapur

Designation

Sub Area Manager

Email

sampadmapur@gmail.com

Industry Category Industry Type

R35 Mining and ore beneficiation

Consent Issue Date

MPCB-CONSENT-0000098267 31.05.2021

Establishment Year

Date of last environment statement

submitted

Aug 18 2020 12:00:00:000AM

Product Information

Product Name Consent Quantity Actual Quantity UOM 2.5 0.457 Coal MT/A

By-product Information

By Product Name **Actual Quantity Consent Quantity UOM** MT/A

Part-B (Water & Raw Material Consumption)

1) Water Consumpt						
Water Consumption) for	Consent Quantity in	m3/day	Actual Quantit	y in m3/d	ay
Process		405		405		
Cooling		-		-		
Domestic		10		10		
All others		-		-		
Total		415		415		
2) Effluent Generati	ion in CMD / MLD					
Particulars	. 	Consent Q	uantity	Actual Quantit	у	UOM
DAILY TRADE EFFLUEN	VI	6595		6390		CMD
	ocess Water Consumptio	n (cubic meter of				
process water per u Name of Products (I		Durino	the Previous	During the	current	UOM
iname or reduces (. roudenon,		ial Year	Financial ye		
Mining		0.141		0.323		CMD
	nsumption (Consumption	n of raw material				
per unit of product) Name of Raw Mater		Durina	the Previous	During the d	urrent	UOM
		financia		Financial ye		
Explosive (Kg/Tonne)		1.23		1.90		
4) Fuel Consumption	n					
Fuel Name		Consent quantity	Actual Qเ	ıantity	U	ОМ
Diesel		-	3624.69		KL	/A
Part-C						
	d to environment/unit o	f output (Parameter as speci	fied in the cons	ent issued)		
[A] Water Pollutants Detail	Quantity of	Concentration of Pollutants	Porcont	age of variation		
Poliutalits Detail	Pollutants	discharged(Mg/Lit) Except	from pre	scribed		
	discharged	PH,Temp,Colour	standard	ls with reasons		
	(kL/day) Quantity	Concentration	%variati	on	Standard	d Reasor
as per water quality	-	-			-	-
report attached in par	· ·					
I						
[B] Air (Stack)						
	Quantity of	Concentration of Pollutants		ge of variation		
	Pollutants	Concentration of Pollutants discharged(Mg/NM3)	from pre	scribed		
			from pre	scribed s with reasons	Standard	d Reasor
[B] Air (Stack) Pollutants Detail NO STACK	Pollutants discharged (kL/day)	discharged(Mg/NM3)	from pres standard	scribed s with reasons	Standare	d Reasor -

Part-D

5.1 Used or spent oil	32.13	31.08	KL/A

2) From Pollution Control Facilities Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	иом
5.2 Wastes or residues containing oil	5.12	3.50	Ton/Y
35.3 Chemical sludge from waste water treatmen	t 36	39.20	Ton/Y

Part-E

COL	10	MALAC:	TEC
SUL	w	WAS:	IES

1) From Process

Non Hazardous Waste TypeTotal During Previous Financial yearTotal During Current Financial yearUOMOVERBURDEN70323373.74CMD

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	Total During Current Financial	UOM	
	year	year		
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

1) Huzurdous 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 treatme	ent 39.20	Ton/Y	Disposed off by MEPL

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	иом	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

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 POLLUTION CONTROL MEASURES 0.00

[B] Investment Proposed for next Year

Capital Investment

(Lacks)

CAPITAL INVESTMENT

FOR AIR & WATER POLLUTION CONTROL MEASURES

24.00

Part-I

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:



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

Address

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

Chandrapur, Maharashtra

Plot no

235-249

Capital Investment (In lakhs)

17314.5

Pincode 442503

Telephone Number

8275967116

Region

SRO-Chandrapur

3NO-Chandrapui

Last Environmental statement

submitted online

yes

Consent Valid Upto

31.03.2022

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

Coal

MPCB-CONSENT-00000101444

Taluka

Bhadrawati

Scale

LSI

Person Name

Balmiki Prasad

Fax Number

07175285088

Industry Category

Red

Consent Number

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

Establishment Year

2015

Application UAN number

Village

Shivjinagar

City

Chandrapur

Designation

Sub Area Manager

Email

newmajriugtooc@gmail.com

Industry Type

R35 Mining and ore beneficiation

Consent Issue Date

05.02.2021

Date of last environment statement

submitted

Sep 5 2020 12:00:00:000AM

Product Information

Product Name

3000000

Actual Quantity

1881964

UOM

Ton/Y

By-product Information

By Product Name

NA

Consent Quantity

Consent Quantity

Actual Quantity

UOM

CMD

Part-B (Water & Raw Material Consumption)

	otion in m3/day						
Water Consumption	on for		Consent Quantity in m3/day Actual Quan			y in m3/da	y .
Process		250			250		
Cooling Domestic All others		0			0		
		5			4		
		140			140		
Total		395			394		
2) Effluent Genera	tion in CMD / MLD						
Particulars		C	Consent Quantit	y	Actual Quantit	y	UOM
Daily Trade Effluent		3	973		3800		CMD
	rocess Water Consump	tion (cubic meter of					
process water per			Dermin or th	a Draviana	Descripe as the		иом
Name of Products	(Production)		During tr financial	e Previous Year	During the Financial y		UOM
COAL(CUBIC METER/TONNE)			0.0325		0.062	,	
	onsumption (Consumpt	ion of raw					
material per unit			D	•	D		
Name of Raw Materials			During the Prev financial Year	ious	During the current Financial year		UOM
EXPLOSIVES (KG/TONNE)			0.0006363 0.00139		-		Ton/Ton
4) Fuel Consumpti	ion						
Fuel Name		Consent quantit	y	Actual Qua	ntity	UC	М
HSD		NA		3360.452		KL/	'A
Part-C							
	ed to environment/unit	of output (Paramete	er as specified i	n the conse	ent issued)		
[A] Water							
Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Podischarged (Mg/Lit) PH,Temp,Colour Concentration		from pres	with reasons	Standard	Reason
Monitoring report attached	-	-		-	•	-	-
[B] Air (Stack)							
Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Po discharged(Mg/NM3) :	from prescr standards v	of variation ibed vith reasons		
	Quantity	Concentration	•	%variation		Standard	Reason
NA	0	0		0		0	

Part-D

5.1 Used or spent oil 29.14	10.938	KL/A
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2) From Pollution Control Facility	ities
------------------------------------	-------

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
Overburden incl. Top Soil

Overburden incl. Top Soil

Total During Previous Financial year
6668541

UOM
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	Total During Current Financial	UOM
	year	year	
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	0	0	0	0	1.35	0

Part-H

measures

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 Capital Investment

Measures (Lacks)

Pollution control measures Capital Expenditure 1.35

Pollution control measures Revenue Expenditure 71.05

[B] Investment Proposed for next Year

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

Capital Investment Mist cannon, sweeping machine etc 92.39

Part-I

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



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

Address

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

Plot no

1-10

Capital Investment (In lakhs)

12511.52

Pincode 442503

Telephone Number

8275967116

Region

SRO-Chandrapur

Last Environmental statement submitted

online

yes

Consent Valid Upto

31.03.2021

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

RED

Application UAN number

MPCB-CONSENT-0000089557

Taluka

Bhadrawati

Scale L.S.I

Person Name

Balmiki Prasad

Fax Number 07175285088

Industry Category

Red

Consent Number

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

Establishment Year

1975

Village

Shivjinagar

City

Chandrapur

Designation

Sub Area Manager

Email

newmajrioc@gmail.com

Industry Type

R35 Mining and ore beneficiation

Consent Issue Date

17.06.2020

Date of last environment statement submitted

Sep 5 2020 12:00:00:000AM

Product Information

Product NameConsent QuantityActual QuantityUOMCoal25000001068616Ton/Y

By-product Information

By Product NameConsent QuantityActual QuantityUOMNA0Ton/Y

Part-B (Water & Raw Material Consumption)

	ption in m3/day	_			_	
Water Consumpti	on for		Consent Quantity in m3/day Actual Quantity			ay
Process		850 800				
Cooling		0		0		
Domestic All others		400		200		
		50		50		
Total		1300		1050		
	ation in CMD / MLD					
Particulars		Consent Qua	ntity	Actual Quantity	/	UOM
Mine discharge		5992		5800		CMD
	Process Water Consumpt	tion (cubic meter of				
process water per Name of Products		Durina	the Previous	During the	current	UOM
	(1.100000000)	financia		Financial ye		
Mining		0.0976		0.224		
3) Raw Material C material per unit	Consumption (Consumpti	ion of raw				
Name of Raw Mat		During the P		During the cu		иом
		financial Yea	r	Financial year	1	
Explosives		0.0019978		2.226		Ton/Ton
4) Fuel Consumpt	ion					
Fuel Name		Consent quantity	Actual (Quantity	UC)M
HSD		na	1715		KL,	/A
Part-C						
Pollution discharg	ged to environment/unit	of output (Parameter as specif	ied in the cons	sent issued)		
[A] Water						
Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration	from pre	ds with reasons	Standard	l Reasor
AS PER WATER QUALITY REPORT	-	-	-		-	-
[B] Air (Stack)						
Pollutants Detail	Pollutants	Concentration of Pollutants discharged(Mg/NM3)	from pres	e of variation cribed with reasons		
	discharged (kL/day) Quantity	Concentration	%variatio		Standar	l Reason

HAZARDOUS WASTES

1) From Process

Part-D

5.1 Used or spent oil 109.045 0 KL/A

2) From Pollution Control Facility	ities
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Hazardous Waste TypeTotal During Previous Financial yearTotal During Current Financial yearUOM5.2 Wastes or residues containing oil1.82Ton/Y2.2 Sludge containing oil24.484.96Ton/Y

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste TypeTotal During Previous Financial yearTotal During Current Financial yearUOMover burden (OB)105370775631520M3/Anum

2) From Pollution Control Facilities

Non Hazardous Waste TypeTotal During Previous Financial yearTotal During Current Financial yearUOMNIL00M3/Anum

3) Quantity Recycled or Re-utilized within the unit

Waste TypeTotal During Previous Financial yearTotal During Current Financial yearUOM year00KL/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 GeneratedQty of Hazardous WasteUOMConcentration of Hazardous Waste5.1 Used or spent oil55.275KL/A05.2 Wastes or residues containing oil2Ton/Y02.2 Sludge containing oil4.96Ton/Y0

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	0	0	0	0	98.3	0

Part-H

measures

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 EMP EXPENDITURE

AIR AND WATER POLLUTION CONTROL MEASURES

98.3

[B] Investment Proposed for next Year

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

Works for Air & Water Quality improvement Mist Cannon, Peizometer, Sprinkler etc

Part-I

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



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

Consent Issue 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 noTalukaVillage89-92WaroraMAJRI AREA

Capital Investment (In lakhs) Scale City

5697.00 L.S.I Chandrapur

PincodePerson NameDesignation442907S.P. AhmadSub Area Manager

Telephone Number Fax Number Email

8275967138 07175285088 yekonaoc@gmail.com

Region Industry Category Industry Type

SRO-Chandrapur Red R35 Mining and ore beneficiation

Last Environmental statement submitted Consent Number

online

yes BO/JD(APC)/TB-2UANNo.91648/R/CC-2009000502 09.09.2020

Consent Valid Upto Establishment Year Date of last environment

statement submitted

31.03.2021 2020 Aug 25 2020 12:00:00:000AM

Industry Category Primary (STC Code) &

Secondary (STC Code)

RED

Product Information

Product NameConsent QuantityActual QuantityUOMCoal400000372311Ton/Y

By-product Information

By Product Name Consent Quantity Actual Quantity UOM

NA - - Ton/Y

Part-B (Water & Raw Material Consumption)

	ption in m3/day					
Water Consumpti Process	on for	Consent Quantity in mi	3/day	Actual Quantit	y in m3/da	y
		100		20		
Cooling		0		0		
Domestic All others		68		0		
		4050		1640		
Total		4218		1660		
	ation in CMD / MLD					
Particulars		Consent Quar	ntity	Actual Quantity	y	UOM
Mine Discharge		4050		1512	(CMD
	Process Water Consumpt	ion (cubic meter				
Name of Products	per unit of product) s (Production)	During the P	Previous finan	cial During the	current	UOM
	, (1.10uud11011)	Year		Financial y		
Mining		0 PRODUCTIO	N	53.718		
	Consumption (Consumpti	ion of raw				
material per unit		Davido at the David		D		
Name of Raw Mat	terials	During the Previ Year	ous financial	During the cu Financial year		UOM
Explosives		0 PRODUCTION		.00128		Ton/Ton
4) Fuel Consumpt	tion					
Fuel Name		Consent quantity	Actual Qua	antity	UO	М
HSD		-	1772.524		KL//	A
Part-C						
	ged to environment/unit	of output (Parameter as specifie	ed in the cons	ent issued)		
[A] Water						
	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour	Percenta from pres standard	ge of variation scribed s with reasons	Standard	
[A] Water Pollutants Detail	Quantity of Pollutants	Concentration of Pollutants discharged(Mg/Lit) Except	Percenta from pres	ge of variation scribed s with reasons	Standard	Reason
[A] Water	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour	Percenta from pres standard	ge of variation scribed s with reasons	Standard -	Reason -
[A] Water Pollutants Detail AS PER WATER QUALITY REPORT [B] Air (Stack)	Quantity of Pollutants discharged (kL/day) Quantity -	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration	Percenta from pres standard %variatio	ge of variation scribed s with reasons on	Standard -	Reasor -
[A] Water Pollutants Detail AS PER WATER QUALITY REPORT	Quantity of Pollutants discharged (kL/day) Quantity - Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour	Percenta from pres standard %variatio - - Percentage from presc	ge of variation scribed s with reasons on e of variation ribed with reasons	Standard - Standard	-

Part-D

HAZARDOUS WASTES

1) From Process

Hazardous Waste TypeTotal During Previous Financial yearTotal During Current Financial yearUOM5.1 Used or spent oil0 PRODUCTION1.5KL/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	0 PRODUCTION	0 PRODUCTION	0 PRODUCTION	0 PRODUCTION	15 lakhs	0 PRODUCTION

Part-H

measures

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

Sedimentation tank

15.14

REVENUE EXPENDITURE

Statutory fees, Environment monitoring 24.90

[B] Investment Proposed for next Year

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

SPRINKLERS, SEDIMENTATION TANK SPRINKLING THROUGH MOBILE TANKERS 35

Part-I

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



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

Address

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

Chandrapur

Plot no 89-92

Capital Investment (In lakhs)

10902.75

Pincode

442907

Telephone Number

8275967138

Region

SRO-Chandrapur

Consent Valid Upto

Last Environmental statement submitted online

yes

31.03.2021

Industry Category Primary (STC Code) &

Secondary (STC Code)RED

Application UAN number

MPCB-CONSENT-0000095769

Taluka

Warora

Scale

L.S.I

Person Name

S.P. Ahmad

Fax Number

07175285088

Industry Category

Red

Consent Number

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

Establishment Year

2017

Village

MAJRI AREA

City

Chandrapur

Designation

Sub Area Manager

Email

yekonaoc@gmail.com

Industry Type

R35 Mining and ore beneficiation

Consent Issue Date

09.03.2021

Date of last environment statement submitted

Aug 25 2020 12:00:00:000AM

Product Information

Product Name

Coal

Consent Quantity 845000

Actual Quantity

728115

UOM

Ton/Y

By-product Information

By Product Name

Consent Quantity

Actual Quantity

UOM

NA

-

Ton/Y

Part-B (Water & Raw Material Consumption)

Water Consumpti	ption in m3/day on for	Consent Quantity in r	m3/day	Actual Quantit	y in m3/da	y
Process		20		20		
Cooling		0		0		
Domestic All others		5		5		
		4050		2620		
Total		4218		2645		
	ation in CMD / MLD					
Particulars Mine Discharge		Consent Qua	antity	Actual Quantity 2620		UOM CMD
Mine Discharge		4050		2020		CMD
2) Product Wise P	Process Water Consumpt r unit of product)	ion (cubic meter of				
Name of Products			the Previous	During the		UOM
Mining		financi 0.0297	ai Year	Financial ye 0.008	ar	
3) Raw Material C material per unit	Consumption (Consumpt	ion of raw				
Name of Raw Mat		During the I financial Ye		During the cur Financial year	rent	UOM
Explosives		0.000389		.00045		Ton/Ton
4) Fuel Consumpt	ion					
Fuel Name		Consent quantity	Actual Qu	antity	UO	
HSD		-	1595.704		KL/	A
Part-C						
Pollution discharg	ged to environment/unit	of output (Parameter as specif	fied in the cons	sent issued)		
Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration	from pre	ds with reasons	Standard	Reason
AS PER WATER QUALITY REPORT	-	-	-		-	-
[B] Air (Stack) Pollutants Detail	•	Concentration of Pollutants		e of variation		
	Pollutants	discharged(Mg/NM3)	from pres			
	discharged (kL/day)	Concentration	standards %variatio	with reasons	Standard	Reason

Part-D

5.1 Used or spent oil 1.5 2 KL/A

2)	From	Pol	lution	Control	Facilities
----	-------------	-----	--------	----------------	-------------------

Hazardous Waste TypeTotal During Previous Financial yearTotal During Current Financial yearUOM2.2 Sludge containing oil05.82Ton/Y5.2 Wastes or residues containing oil00.6Ton/Y

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste TypeTotal During Previous Financial yearTotal During Current Financial yearUOMOVERBURDEN16158552116992.174M3/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 TypeTotal During Previous Financial
yearTotal During Current Financial
yearUOM
year00Ton/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 GeneratedQty of Solid WasteUOMConcentration of Solid WasteOVERBURDEN2116992.174M3/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	0	0	0	0	11.95 lakhs	0

Part-H

measures

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 ProtectionEnvironmental Protection MeasuresCapital Investment (Lacks)CAPITALFixed Sprinklers11.95REVENUE EXPENDITUREStatutory fees, Environment monitoring and Op and Maintenance42.3

[B] Investment Proposed for next Year

Detail of measures for Environmental ProtectionEnvironmental Protection MeasuresCapital Investment (Lacks)SPRINKLERS, CAAQMSSPRINKLING THROUGH MIST CANNON140

Part-I

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



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/

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

Capital Investment (In lakhs)

4762.7566786

Pincode

441107

Telephone Number

07122643547

Region

SRO-Nagpur I

٠.

Last Environmental statement submitted online

yes

Consent Valid Upto

2021-12-31

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

Application UAN number

92022

Taluka Saoner

Scale

Person Name

Mine Manager Incharge of

Project

Fax Number

07113233135

Industry Category

Red

Consent Number

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

Establishment Year

2020

Village

Katodi **City**

Nagpur

Designation

Mine Manager

Email

adasaugminemanager@yahoo.com

Industry Type

R35 Mining and ore beneficiation

Consent Issue Date

18-01-2021

Date of last environment statement

submitted

Sep 23 2020 12:00:00:000AM

Product Information

Product NameConsent QuantityActual QuantityUOMCoal1.850.017722MT/A

By-product Information

By Product NameConsent QuantityActual QuantityUOMOverburden (Top and hard soil)02648000CMD

Part-B (Water & Raw Material Consumption)

1) Water Consumption Water Consumption Process		Consent Quantity in m3/da 358.00	Actual Quantit 358.00	y in m3/day	,
Cooling		0.00	0.00		
Domestic		32.00	32.00		
All others		2610.00	0.00		
Total		3000.00	390.00		
2) Effluent Generation	on in CMD / MLD				
Particulars Trade Effluent (Mine D	icchargo)	Consent Qua i 2628	ntity Actual Quantit 2610	-	U OM CMD
	ischarge)				
Domestic Effluent		32	19.2	(CMD
	cess Water Consumptio ter per unit of product)				
Name of Products (F		During the Previ	Financial year	rent	UOI
Coal		3105769231	7373321.296		
3) Raw Material Con material per unit of	sumption (Consumption product)	of raw			
Name of Raw Materi		During the Previous financial Year	During the current year	Financial	UON
Explosive used for blas	sting purpose	520949519.2	9996755.44520934		
4) Fuel Consumption	1				
Fuel Name Diesel		Consent quantity 0	Actual Quantity 0	UOI KL/A	
Part-C					
Pollution discharged [A] Water	l to environment/unit o	f output (Parameter as specified	l in the consent issued)		
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		
AC DED THE WATER	Quantity	Concentration	%variation	Standard ^	
AS PER THE WATER QUALITY REPORT UPLOADED	0	0	0	0	0
[B] Air (Stack) Pollutants Detail	Quantity of	Concentration of Pollutort	Porcontage of variation		
rollutants Detall	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/NM3)	Percentage of variation from prescribed standards with reasons		_
NO STOCK	Quantity	Concentration	%variation ∩	Standard 0	
MONITORING	0	0	0	U	0

HAZARDOUS WA								
1) From Process Hazardous Was	_	During Previous	Financial vear	T	ntal Duri	ng Current Financial	vear	иом
0	0	Daring Trevious	Tinanciai yeai	0	ocar Darri	ng carrent i maneiar	yeur	CMD
2) From Pollutio			,					
Hazardous Was		_	ious Financial ye			ring Current Financia	ı year	UOM
0	0			,)			CMD
Part-E								
SOLID WASTES								
1) From Process	5							
	Waste Type 1	Total During Prev	rious Financial ye		-	Current Financial ye		иом
Overburden	()		2648	3000		l	M3/Anum
2) From Pollution	on Control Faci	ilities						
Non Hazardous	Waste Type	Total Duri	ng Previous Fina	ncial year	Tota	l During Current Fina	ancial year	UOM
NA		0			0			CMD
3) Quantity Rec	ycled or Re-ut	ilized within the						
unit			Takal Basilan	. D	=:			
Waste Type			Total During year	Previous	Financia	I Total During Curro year	ent Financia	I UOM
0			0			0		CMD
			concentration and ese categories of		n) of haza	ardous as well as sol	id wastes an	nd
1) Hazardous W								
Type of Hazardo	ous Waste Gen		Qty of Hazardous	Waste	UOM	Concentration of Ha	izardous Wa	ste
0		()		CMD	0		
2) Solid Waste								
Type of Solid W	aste Generate	d	Qty of Solid Was	ste	UOM	Concentration of S	olid Waste	
0			0		CMD	0		
Part-G								
	ollution Contro	ol measures take	n on conservatio	n of natura	al resour	ces and consequentl	y on the cos	t of
production.								
Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solve Consumption (KL/day)	ent Raw Mate	erial Powe	umption	Capital Investment(in Lacs)	Reduction Maintenar Lacs)	
Impact of the pollution Control measures taken	-390	0.000792	-174995.35	5 4200	148	0	9.55	

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

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



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 MPCB-CONSENT-0000099765 Western Coalfields Limited, Nagpur (A subsidiary of Coal India Ltd, Ministry of Coal, GOI)

Application UAN number

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

Village

440026

City

Nagpur

Email

Designation

Industry Type

Consent Issue Date

Capital Investment (In lakhs)

10111.3152562

Pincode

440026

Telephone Number

8275970813

Region

SRO-Nagpur I

Last Environmental statement

submitted online yes

Coal

Kamptee

Scale

L.S.I

Person Name

Manager In -Charge of Project

Fax Number

07122643547

Industry Category

Red

Consent Number

R35 Mining and ore beneficiation

Format 1.0/CAC/UAN no

0000099765/CR-2106000686 dated

27.05.2020

Establishment Year

15.06.2021

Consent Valid Upto

31.03.2022 2018

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

Date of last environment statement

Project Manager- Bhanegaon OC Mine

bhanegaonocminemanager@yahoo.com

submitted

Sep 23 2020 12:00:00:000AM

Product Information

Product Name Consent Quantity

1.15

Actual Quantity

UOM

0.18369

MT/A

By-product Information

By Product Name **Consent Quantity Actual Quantity UOM**

Part-B (Water & Raw Material Consumption)

Water Consumption for	Consent Quantity in m3/day	Actual Quantity in m3/day
Process	9400.00	4700.00
Cooling	0.00	0.00
Domestic	135.00	135.00
All others	300.00	4700.00
Total	9835.00	9535.00

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

Particulars	Consent Quantity	Actual Quantity	UOM
Trade Effluent (Only mine discharged water-no mixing))30632 quantity is used by TPS	9400	30632	CMD
Domestic Effluent	80	81	CMD

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

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
Coal	1727639.024	9339103.925	

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	ИОМ
Explosive used for blasting purpose	856418.8306	145383	Kg/Annum

4) Fuel Consumption			
Fuel Name	Consent quantity	Actual Quantity	UOM
Diesel	0	288800	Ιtr/Δ

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		
	Quantity	Concentration	%variation	Standard	Reason
NA- only dust generated during Coal	0	0	Nil	Nil	Nil

[A] Water Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Polluta discharged(Mg/Lit) Exce PH,Temp,Colour		1		
	Quantity	Concentration	%variation	St	andard	Reason
NA- only dust generated during Coa extraction	O al	0	Nil	Nil		Nil
[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			
	Quantity	Concentration	%variation	Standard	Reas	son
Not applicable 0)	0	Not applicable	Not applicable	Not appl	icable

Part-D

1) From Process Hazardous Waste T	ype Total During F	Previous Financial year	To 0	tal During	g Current Financial year	ио СМ
2) From Pollution Co		ing Previous Financial ye	aar T	otal Duri	ng Current Financial yea	nr UOM
0	0 0	ng i revious i muncial ye	0		ig current i manciar yea	CMD
Part-E						
SOLID WASTES 1) From Process						
-	ste Type Total Dur	ing Previous Financial y	ear To	tal Durin	g Current Financial year	· UOM
Overburden (Soil)	3142000		21	61827		M3/Anu
2) From Pollution Co						_
Non Hazardous Was		otal During Previous Find	ancial year		During Current Financia	-
NA	0			0		Kl
3) Quantity Recycle	d or Re-utilized wit	hin the				
Waste Type		Total During	g Previous F	inancial	Total During Current F	inancial UO
		year	,		year	
0		0			0	CM
Part-F						
		erms of concentration ar both these categories o) of hazar	dous as well as solid wa	istes and
1) Hazardous Waste	9					
Type of Hazardous	Waste Generated	Qty of Hazardous 0	s Waste		Concentration of Hazard NA	lous Waste
2) Solid Waste						
Type of Solid Waste	e Generated	Qty of Solid Waste	UOM	Conce	entration of Solid Waste	•
Overburden		2161827	M3/Anum	overb	urden stacked at earmarke	d sites
Part-G						
Impact of the pollut	tion Control measu	res taken on conservatio	on of natura	l resource	es and consequently on	the cost of
		luction in Reductio I & Solvent Raw	on in Reduc Power			duction in

Investment(in

Lacs)

0

Maintenance(in

Lacs)

-18.17

Fuel & Solvent

Consumption

(KL/day)

-0.670444

Raw

(Kg)

Material

496941.4

Power

(KWH)

303591

Consumption

Water

-1150

Impact of the

pollution Control measures taken (M3/day)

Consumption

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 1.80

[B] Investment Proposed for next Year

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

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



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**

Address

Gondegaon OCM, P.O Gondegaon, Tehsil-Parseoni

Plot no

SAM OFFICE, GONDEGAON

Capital Investment (In lakhs)

274.99

Pincode 441404

Telephone Number

0712640200

Region

SRO-Nagpur I

Last Environmental statement

submitted online

ves

Consent Valid Upto

31.12.2020

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

Application UAN number

MPCB-CONSENT-0000041516. RENEWAL APPLICATION IS UNDER PROCESS

Taluka

PARSEONI

Scale L.S.I

Person Name

SUB AREA MANAGER

Fax Number

07122643352

Industry Category

Red

Consent Number

FORMAT 1.0/CAC/UAN

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

PROCESS

Establishment Year

1992

Village

GONDEGAON

City

Nagpur

Designation

Dv.GM (MIN)/ SUB AREA

MANAGER, GONDEGAON SUB AREA

Email

wclngpenv@gmail.com

Industry Type

R35 Mining and ore beneficiation

Consent Issue Date

02/03/2020

Date of last environment statement submitted

Sep 24 2020 12:00:00:000AM

Product Information

Product Name Consent Quantity Actual Quantity UOM COAL 3.5 3.50 MT/A

By-product Information

Actual Quantity By Product Name **Consent Quantity UOM** 1053.843 **OVERBURDEN** 24457.80 **CMD**

Part-B (Water & Raw Material Consumption)

Water Consumpti	ption in m3/day	Consont O	uantity in m3/d	av	Actual Quantity	in m3/day		
Process	on for	2100.00	iantity in m5/u	ay	2050.00	III III3/Uay		
Cooling		0.00			0.00			
Domestic		670.00			640.00			
All others								
		11100.00			3950.00			
Total		13870.00			6640.00			
	ation in CMD / MLD							
Particulars			Consent Qua	ntity	Actual Quantit	y	иом	
MINE WATER DISCH	IARGE		35848		35840	(CMD	
	Process Water Consump	tion (cubic meter o	of					
process water per Name of Products			During the	Dravious	During the cu	rront	иом	
Name of Products	s (Production)		financial Ye		Financial year		ООМ	
Mining			0.00021		0.00019		Ton/Tor	
3) Raw Material C material per unit	Consumption (Consumpt of product)	ion of raw						
Name of Raw Mat			During the P		During the cur Financial year	rent	иом	
EXPLOSIVE			0.0011	1	0.004		Ton/Tor	
4) Fuel Consumpt	tion							
Fuel Name		Consent quan	tity	Actua	l Quantity	UO	М	
Diesel		57.358		57.358	}	KL//	Д	
Part-C								
	ged to environment/unit	of output (Parame	eter as specifie	ed in the cor	nsent issued)			
[A] Water Pollutants Detail	Quantity of Pollutants discharged (kL/day Quantity	Concentration o discharged(Mg/I) PH,Temp,Colour Concentration	Lit) Except	from pi	tage of variation rescribed rds with reasons tion	Standard	Reason	
As per monitoring report (Attached)	0	0		-		-	-	
[B] Air (Stack)	Our white of		Dallasta anti-	D =				
Pollutants Detail	Pollutants discharged (kL/day)	Concentration of I discharged(Mg/NN		from pres standard	s with reasons			
	A	Camaantuatian		%variatio		Standard	Reason	
NOT APPLICABLE	Quantity	Concentration		%variatio)II	Stanuaru	Neuson	

Part-D

0 0	0 T	on/Y
-----	-----	------

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 Ty	pe 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 vear	Total During Current Financial vear	иом
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

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)

Revenue Expenditure Revenue Expenditure 102.74

Capital Expenditure Capital Expenditure 22.11

[B] Investment Proposed for next Year

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

WORKS PROPOSED FOR FY 2021-22 EXPENDITURE ONE ENVIRONMENT 290.00

Part-I

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



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

Village

KANHAN

City

Nagpur

Email

Designation

Industry Type

SUB AREA MANAGER

wclngpenv2gmail.com

Consent Issue Date

R35 Mining and ore beneficiation

PART A

Company Information

Company Name INDER UG TO OC PROJECT

MPCB-CONSENT-0000081212

Address

Plot no

INDER KAMPTEE KANHAN PARSEONI NAGPUR

MANAGER OFFICE INDER

Capital Investment (In lakhs)

2244.62

Pincode 440404

Telephone Number

07122640200

Region

SRO-Nagpur I

Last Environmental statement submitted online

yes

Consent Valid Upto

2020-10-31

Secondary (STC Code)

Industry Category Primary (STC Code) &

Application UAN number

Taluka

PARSEONI

Scale LSI

Person Name

SUB AREA MANAGER

Fax Number

07122643352

Industry Category

Red

Consent Number

FORMAT 1.0/CAC/UAN NO.81212/c-2005000590 2020-05-22

2012

Establishment Year Date of last environment statement submitted

Sep 22 2020 12:00:00:000AM

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

Actual Quantity 3114961

UOM

3114961

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

HAZARDOUS WAS 1) From Process Hazardous Waste		evious Financial year	Tota	l During C	urrent Financial	year	UOM
Part-D							
NA	Quantity 0	Concentration 0		%variatio 0	on	Standard 0	Reaso i 0
[B] Air (Stack) Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Polludischarged(Mg/NM3)	ıtants	from pre standard	s with reasons	<i>a.</i>	
REPORTS ATTACHEI	D						
AS PER MONITORING		Concentration 0		%varia 0	ntion	Standard 0	Reaso 0
onutants betain	Pollutants discharged (kL/day)	discharged(Mg/Lit) PH,Temp,Colour		variati prescr with re	ion from ibed standards easons		_
Pollution discharg [A] Water Pollutants Detail	ged to environment/un	it of output (Parameter Concentration of P			nsent issued)		
Part-C							
DIESEL		0		2571.66°	-	KL/	
4) Fuel Consumpt Fuel Name	ion	Consent quantity	,	Actual (Quantity	UO	ıM
EXPLOSIVE		0.00	0010		0.00016		Ton/To
Name of Raw Mat	rerials		ring the Prev ancial Year	/ious	During the cur Financial year	rent	UOM
3) Raw Material C material per unit	Consumption (Consump of product)	otion of raw					
MINING			0.00023		0.0003		Ton/To
process water per Name of Products			During the P financial Yea		During the co Financial yea		иом
2) Effluent Genera Particulars MINE WATER DISCH	ation in CMD / MLD		nsent Quant	tity	Actual Quanti 11000	-	UOM CMD
Total		11669.00			600.00		
All others		11000.00			0.00		
Domestic		69.00			0.00		
		0.00			0.00		

Part-E

SOLID WASTES

1) From Process

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

OVERBURDEN 2498599 3114961 M3/Anum

2) From Pollution Control Facilities

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

NA 0 set/month

3) Quantity Recycled or Re-utilized within the unit

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

0 0 set/month

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

2.2 Sludge containing oil 4.770 Ton/Y 4.770

2) Solid Waste

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

NA 0 set/month 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 POLLUTION CONTROL MEASURES	0.00	0.000047	1410	521450	0.00	6.75

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 2020-21 CAPITAL EXPENDITURE 0.00

REVENUE EXPENDITURE 2020-21 REVENUE EXPENDITURE 22.79

[B] Investment Proposed for next Year

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

WORKS PROPOSED FOR FY 2021-22

EXPENDITURE ONE ENVIRONMENT

47.00

Part-I

Any other particulars for improving the quality of the environment.

Particulars

ATTACHED

Name & Designation

SUB AREA MANAGER

MPCB-ENVIRONMENT_STATEMENT-0000038389

Submitted On:

29-09-2021



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

Address

EXPANSION OF KAMPTEE DEEP OC MINE

UNDER KAMPTEE SUB AREA

Plot no

WCL, KAMPTEE DEEP PROJECT

Capital Investment (In lakhs)

13486.99712

Pincode

441404

Telephone Number

07122640200

Region

SRO-Nagpur I

Last Environmental statement

submitted online

yes

Consent Valid Upto

31.03.2021

Application UAN number

MPCB-CONSENT-0000090050

Taluka

PARSEONI

Scale

L.S.I

Person Name

MINE MANAGER

Fax Number

07122643352

Industry Category

Red

Consent Number

FORMAT 1.0/CAC/UAN

NO.0000090050/CR-2007001724

Establishment Year

2012

Village

KANHAN

City

Nagpur

Designation

MINE MANAGER

Email

wclngpenv@gmail.com

Industry Type

R35 Mining and ore beneficiation

Consent Issue Date

29/07/2020

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 Consent Quantity Actual Quantity UOM COAL 2.00 0.852 MT/A

By-product Information

By Product Name **Consent Quantity Actual Quantity UOM**

OVERBURDEN 16920000 5123628

Part-B (Water & Raw Material Consumption)

water consumpt	ption in m3/day ion for	Consent Qu	uantity in m3/da	ıy	Actual Quantity	in m3/day	
Process		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		
	ration in CMD / MLD				A - 4 1 O 1 ''		
Particulars MINE WATER DISCH	HARGE		Consent Quan 35426	tity	Actual Quantit 20736	-	UOM CMD
	Process Water Consumpter unit of product)	tion (cubic meter o	of				
Name of Product			During the financial Ye		During the cu Financial yea		ИОМ
Mining(COAL)			0.000629		0.0003		Ton/Tor
3) Raw Material (material per unit	Consumption (Consumpt	ion of raw					
Name of Raw Ma			During the Pre financial Year	vious	During the curr Financial year	rent	иом
EXPLOSIVE			0.000469		0.00076		Ton/Tor
4) Fuel Consump	tion	Consent quar	. 4.54	Actual (UO	
				ALLUAIL	Juaiililv	UUI	v /
Diesel		.0	itity	2571669		Ltr/	4
		-	itity				Α
Diesel Part-C Pollution dischar	ged to environment/unit	.0	•	2571669			Δ
Diesel Part-C	_	of output (Parame Concentration of discharged(Mg/L	eter as specified F Pollutants	2571669 I in the cor Percent from pr	asent issued) tage of variation escribed rds with reasons		
Part-C Pollution dischar [A] Water	Quantity of Pollutants discharged (kL/day)	c of output (Parame Concentration of discharged(Mg/L PH,Temp,Colour	eter as specified F Pollutants	2571669 I in the cor Percent from pr standar	asent issued) tage of variation escribed rds with reasons	Ltr/,	
Part-C Pollution dischar [A] Water Pollutants Detail As per monitoring Reports [B] Air (Stack)	Quantity of Pollutants discharged (kL/day) Quantity 0	Concentration of discharged (Mg/L PH, Temp, Colour Concentration 0	eter as specified F Pollutants it) Except	2571669 I in the cor Percent from pr standar %variat -	rage of variation escribed rds with reasons	Ltr/,	
Part-C Pollution dischar [A] Water Pollutants Detail As per monitoring Reports	Quantity of Pollutants discharged (kL/day) Quantity 0	Concentration of discharged(Mg/L PH,Temp,Colour Concentration	eter as specified F Pollutants it) Except	2571669 I in the cor Percent from pr standar %variat - Percenta from pre	rage of variation escribed rds with reasons rion ge of variation scribed s with reasons	Ltr/,	Reason -

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type Total During Previous Financial year

Total During Current Financial year 0.00

UOM Ton/Y

2) From Pollution Control Facilities Hazardous Waste Type			Total During Pre	vious Financial	Total During Curren	nt Financial	иом
35.3 Chemical	sludge from was	te water treatment	year 18.48		year 11.13		Ton/Y
Part-E							
SOLID WASTE							
		Total During Pre 2992204	vious Financial ye	Total Du 5123628	ring Current Financia	-	UOM M3/Anum
_,	tion Control Fa						
Non Hazardou NA	us Waste Type	Total Dui 0	ing Previous Fina	ncial year Total 0	l During Current Finan	-	JOM set/month
	ecycled or Re-u	utilized within the					
unit Waste Type			_	Previous Financi	_	ent Financia	I UOM
0			year 0		year 0		Ton/Y
					zardous as well as sol	lid wastes ar	nd
		dopted for both th	ese categories of	wastes.			
	rdous Waste Go	enerated te water treatment	Qty of Hazardou 11.13		M Concentration of F	Hazardous W	aste (
2) Solid Wast Type of Solid OVERBURDEN	e Waste Genera		Qty of Solid Wast 5123628	e UOM M3/Anum	Concentration of 5123628	Solid Waste	,
Part-G							
Impact of the production.	pollution Cont	rol measures take	en on conservatio	n of natural resou	urces and consequent	ly on the cos	st of
Description	Reduction in Water Consumptio (M3/day)	Fuel & Solv	ent Raw	n in Reduction in Power Consumption (KWH)	Investment(in	Reduction Maintenar Lacs)	
lman a at af	200	0.0725	240.4	252100	0.00	CO 07	

Part-H

Impact of

pollution control measures

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

348.4

352180

0.0725

380

0.00

-68.87

Capital Expenditure Capital Expenditure 0

Revenue Expenditure Revenue Expenditure 116.22

[B] Investment Proposed for next Year

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

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



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 Application UAN number

Patansaoungi Expansion UG Coal Mine project 90063 of M/s Western Coalfields Ltd., Nagpur (A subsidiary of Coal India Ltd, GOI-U/T MINE

Address

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

Plot no Taluka Village Saoner Patansaoungi

Capital Investment (In lakhs) Scale 1915.618645 L.S.I

Pincode **Person Name** Designation

441113 Mine Manager Incharge of Mine Manager, Patansaoungi Mine, Silewara Sub Area Project of WCL, Nagpur Area

9421803453 07122643547 patansaoniugminemanager@yahoo.com

City

Nagpur

Email

Region **Industry Category Industry Type**

SRO-Nagpur I Red R35 Mining and ore beneficiation

Fax Number

Last Environmental statement **Consent Number** Consent Issue Date

submitted online 03.09.2020 yes BO/JD(APC) UAN NO

90063/R/CC-142/2020 dated 03.09.2020

Consent Valid Upto Establishment Year Date of last environment statement submitted 31.03.2025 1976 Sep 23 2020 12:00:00:000AM

Industry Category Primary (STC Code) &

Secondary (STC Code)

Telephone Number

Product Information Product Name Consent Quantity Actual Quantity UOM Coal 0.3 0.063225 MT/A

By-product Information

By Product Name **UOM Consent Quantity Actual Quantity** Nil 0 0 **CMD**

Part-B (Water & Raw Material Consumption)

1) Water Consumption Water Consumption Process	•		Consent 9819.00	Quantity in	m3/day		Actual (1270.00	Quantit	y in m3	!/day	
Cooling			0.00				0.00				
Domestic			7637.00				450.00				
All others			2183.00				750.00				
Total			19639.00				2470.00	ı			
2) Effluent General Particulars Trade Effluent (Only			er-no mixing)		Consent (5000	Quantity		ctual Qu 200	ıantity		UOM CMD
Domestic Effluent					240		27	70			CMD
2) Product Wise P											
Mame of Products			oduct)	During the financial \				the cu			иом
Coal				51610143.	28		733175	51.681			
3) Raw Material C material per unit Name of Raw Mat	of pro	oduct)	mption of raw	Durina t	the Previo	us	Durii	ng the c	urrent		UOM
Explosive used for b				financia 493269.7	l Year		Fina	ncial ye 88.533			
4) Fuel Consumpt	tion					Antonio					
Fuel Name Diesel			Consent q 0	luantity		Actual Q 3217	uantity			UOI Ltr/A	-
Part-C										ŕ	
Pollution discharg	ged to	environment/	unit of output (Para	meter as sp	ecified in	the cons	ent issu	ıed)			
Pollutants Detail		Quantity of Pollutants discharged (kL/day)	Concentrati discharged(PH,Temp,Co	(Mg/Lit) Exc plour		Percenta variation prescrib with rea	n from ed stan sons	ndards			
As per the attached Environment Monito report		Quantity 0	Concentrati 0	ion		%variati 0	on		Stand 0	dard	Reason 0
[B] Air (Stack)				N - 11 - 2	. -						
Pollutants Detail	Pollu disch (kL/a	itants narged lay)	Concentration of F discharged(Mg/NM		from pre standare	ds with re					
Not applicable	Quar 0	ntity	Concentration 0		%variati Not appli			Standa Not	ard	Rea Not	son
, p					la la	-		applica	ble		icable

Part-D

(M3/day)

15736.36

Impact of the pollution Control measures taken

Consumption

Consumption

(KL/day)

-0.006767

(Kg)

Material

-2933.1

(KWH)

-405585

Consumption

Lacs)

0

Lacs)

2.24

HAZARDOUS WAS	STES							
1) From Process								
Hazardous Waste	Туре Т	otal Duri	ng Previous Final	ncial year	Total	Duri	ng Current Financial year	UOM
0	0				0			CMD
2) From Pollution	Control	Facilities	<u> </u>					
Hazardous Waste	Туре	Total	- During Previous I	inancial year	Tota	al Dui	ring Current Financial year	UOM
0		0			0			CMD
Part-E								
SOLID WASTES								
1) From Process								
Non Hazardous W	/aste Typ	e Total	During Previous	Financial year	To	tal Du	ıring Current Financial year	UOM
NA		0			0			CMD
2) From Pollution	Control	Facilities	.					
Non Hazardous W	/aste Typ	е	Total During Pr	evious Financia	al year	Tota	l During Current Financial ye	ar UOM
NA			0			0		CMD
3) Quantity Recyc	cled or Re	e-utilized	l within the					
<u>unit</u>			_					
Waste Type				otal During Pro rear	evious Fina	ancia	I Total During Current Final year	ncial UOM
0			(0	CMD
Part-F								
Please specify the indicate disposal						f haza	ardous as well as solid waste	s and
•	-							
1) Hazardous Was		Generat	ed Oty of	Hazardous Was	ste IIC	М	Concentration of Hazardous	Waste
0	is waste	ocherae	0	mazaraous ma.	CM		Not applicable	Waste
2) Solid Waste								
Type of Solid Was	ste Gene	rated	Otv o	f Solid Waste	UOM	,	Concentration of Solid Waste	•
NA			0		CMD		Not applicable	
Part-G								
Impact of the pol	lution Co	ntrol me	asures taken on o	conservation of	natural re	esour	ces and consequently on the	cost of
-	Dadessi		Daduction to	Dadwall	التصادم		Consider	tion i
	Reduction Water Consumn		Reduction in Fuel & Solvent	Reduction in Raw Material	Power Consum			tion in enance(in

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

IIAN No:

MPCB-ENVIRONMENT STATEMENT-0000037747

Submitted On:



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

Address

Office of the Silewara Sub Area Manager, Silewara Sub Area of WCL, Nagpur Area

Walni Mouza 1 (134,135)

Capital Investment (In lakhs)

1243

Pincode 441402

Telephone Number

7972405939

Region SRO-Nagpur I

Last Environmental statement submitted

online

ves

Consent Valid Upto

30.06.2014, Fresh application for renewal was applied upto 30.06.2017-but mine is not in

production

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

Application UAN number 0

Taluka Saoner

Scale

L.S.I

Person Name

Mine Manager Incharge of Project

Fax Number

07103268128

Industry Category

Red

Consent Number

BO/ID(APC) EIC

NONG-3362-10/R/CC-750

Establishment Year

2013

Village Walni

City

Nagpur

Designation Mine Manager

Email

piplaugminemanager@yahoo.com

Industry Type

R35 Mining and ore beneficiation

Consent Issue Date

11.01.2013

Date of last environment statement

submitted

Sep 23 2020 12:00:00:000AM

Product Information

Product Name Consent Quantity Actual Quantity UOM Coal 0.25 0 CMD

By-product Information

By Product Name **UOM Consent Quantity Actual Quantity** Nil 0.25

Part-B (Water & Raw Material Consumption)

	ption in m3/day	Consent Quant	ity in m2/day	A ~	tual Quantity	v in m2/day	,
Water Consumpti Process	on for	0.00	ty III III3/day	0.0	_	y III III3/uay	,
Cooling							
_		0.00		0.0			
Domestic		0.00		0.0	00		
All others		0.00		0.0	00		
Total		0.00		0.0	00		
	ation in CMD / MLD						
Particulars Trade Effluent (Only	, mina discharged water n	a miving)	Consent Qu	uantity	Actual Q u 0	ıantity	UOM CMD
Trade Effluent (Only	y mine discharged water-no	o mixing)	0		0		СМО
2) Product Wise F process water pe	Process Water Consump	tion (cubic meter of					
Name of Products			During the Pre	evious	During the Financial y		ИОМ
Coal			0		0		
3) Raw Material (unit of product)	Consumption (Consumpt	ion of raw material per					
Name of Raw Mat	terials		During the Pr		During the Financial y		ИОМ
Explosive used for I	olasting purpose		0		0		CMD
4) Fuel Consumpt	tion						
Fuel Name		Consent quantit	у	Actual Q	uantity	U	ОМ
Diesel		0		0			
Part-C							
	ged to environment/unit	t of output (Parameter as	s specified in the	e consent	issued)		
Pollution discharg [A] Water Pollutants Detail	Quantity of Pollutants discharged (kL/day)		cept fro sta	m prescri ndards w	of variation bed ith reasons	Standard	Roosen
[A] Water	Pollutants	discharged(Mg/Lit) Exc	cept fro sta	m prescri	bed	Standard -	Reason -
[A] Water Pollutants Detail Monitoring report enclosed [B] Air (Stack)	Pollutants discharged (kL/day) Quantity 0 Quantity of	discharged(Mg/Lit) Exc PH,Temp,Colour Concentration 0 Concentration of Polluta	ept fro sta %v. -	m prescri ndards w ariation entage of	bed ith reasons variation	Standard -	Reason -
[A] Water Pollutants Detail Monitoring report	Pollutants discharged (kL/day) Quantity 0	discharged(Mg/Lit) Exc PH,Temp,Colour Concentration	ept fro sta %v. - ents Perce from stand	m prescri ndards w ariation entage of prescribe	bed ith reasons variation	Standard - Standard	-

Part-D

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	-545	0	0	0	0	0

Part-H

26.08.2016

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

[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 0 Measures

Part-I

Any other particulars for improving the quality of the environment.

Particulars

Mine is abondended 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:



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 subsidary of Coal india Limited, GOI-U/T

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

Pincode

441107

Capital Investment (In lakhs)

10438.1418566

Telephone Number

9881010881

Region SRO-Nagpur I

Last Environmental statement submitted online

yes

Consent Valid Upto

2021-03-31

& Secondary (STC Code)

Application UAN number

MPCB-CONSENT - 0000056629

Taluka Saoner

Scale L.S.I

Person Name

R.B Thakre

Fax Number

07122643547

Industry Category

Red

Consent Number

Formate1.0/CAC/UAN NO.0000056629/CR-2003000146 Date:

03.03.2020

Establishment Year

1986

Village

Borgaon

City

Nagpur Designation

Dy. GM(Mining)

saonerugminemanager@yahoo.com

Industry Type

R35 Mining and ore beneficiation

Consent Issue Date

2020-03-03

Date of last environment statement submitted

Sep 23 2020 12:00:00:000AM

Industry Category Primary (STC Code)

Product Information

Product Name Consent Quantity Actual Quantity UOM 2 0.544245 Coal MT/A

By-product Information

By Product Name **UOM Consent Quantity Actual Quantity** Nil 0 0

Part-B (Water & Raw Material Consumption)

1) Water Consumpt Water Consumpt Process		Consent Qua 5437	ntity in m3/a	lay Actual 8100.00	Quantity in m3	?/day
Cooling		0		0.00	,	
Domestic		800		437.00		
All others		1700		0.00		
Total		7937		8537.00)	
	ation in CMD / MLD					
Particulars Trade Effluent		Co i 102	nsent Quanti >45	ity Actual 7019	Quantity	UOM CMD
Domestic Efflent		500		281.22		CMD
	Process Water Cons					
meter of process Name of Products	water per unit of p		ing the Prev	ious Durin	g the current	UOM
Coal	s (Froduction)	fina	nncial Year 5143.455	Finan	cial year 96.117	0014
3) Raw Material (Consumption (Consu	umption of raw				
Name of Raw Mar	-		ring the Pre		g the current	иом
Explosive used for	blasting purpose		ancial Year 3726.5686		ocial year 92.1414	
4) Fuel Consump	tion		_			
Fuel Name Diesel		Consent quanti 0	ty	Actual Quantity 9861	/	UOM Ltr/A
Part-C						
Pollution dischar	ged to environment	t/unit of output (Paramete	r as specified	d in the consent iss	ued)	
Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of P discharged(Mg/Lit) PH,Temp,Colour		Percentage of va from prescribed standards with r		
For decourant	Quantity	Concentration		%variation		lard Reason
Environment Monitoring report uploaded	0	0		uploaded	upload	ded uploaded
[B] Air (Stack)						
Pollutants Detail	Pollutants discharged (kL/day)	Concentration of Polluta discharged(Mg/NM3)	from stan	entage of variation prescribed dards with reasons		
Not applicable	Quantity	Concentration		riation	Standard	Reason Not
Not applicable	0	0	NOT a	applicable	Not applicable	applicable

Part-D

1) From Process Hazardous Waste Type Total During Pre 0 0	vious Financial year	Total Dur 0	ing Current Financial year	UOM CMD
2) From Pollution Control Facilities Hazardous Waste Type Total During 0 0	Previous Financial year	Total Du 0	ring Current Financial year	UOM CMD
Part-E				
SOLID WASTES 1) From Process Non Hazardous Waste Type Total During	n Previous Financial vear	Total Dur	ing Current Financial year	иом
Not applicable 0	, Frevious Filianciai yeai	0	nig current Financial year	M3/Anum
2) From Pollution Control Facilities Non Hazardous Waste Type Not applicable 0	l During Previous Financial ye	ear Tota	al During Current Financial yea	r UOM CMD
3) Quantity Recycled or Re-utilized within unit Waste Type		us Financia	al Total During Current Finan	cial UOM
0	year 0	as i manere	year 0	CMD
Part-F				
Please specify the characteristics(in termindicate disposal practice adopted for bo			ardous as well as solid wastes	and
1) Hazardous Waste Type of Hazardous Waste Generated 0	Qty of Hazardous Waste 0	UOM CMD	Concentration of Hazardous V Not applicable	/aste
2) Solid Waste Type of Solid Waste Generated Not applicable	Qty of Solid Waste 0	UOM CMD	Concentration of Solid Waste	
Part-G				

Description	Water Consumption (M3/day)	Fuel & Solvent Consumption (KL/day)	Raw Material (Kg)	Power Consumption (KWH)	Investment(in Lacs)	Maintenance(in Lacs)
Impact of the Pollution Control Measures	-3131.7	-0.006477	42724.41	107386	0	-35.67

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 Env

Environmental Protection Measures

Capital Investment (Lacks)

Capital Expenditure

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 Expenditure

Implementation of the Air and water pollution Control Measures

24.00

Part-I

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:



महाराष्ट्र प्रदूषण नियंत्रण मंडळ

Application UAN number

0000067299

Taluka

Saoner

Scale

Person Name

Fax Number

07103268128

Industry Category

Consent Number

No.67299/R/CC-1910000011

Establishment Year

BO/ID(APC)/UAN

Mine Manager/ Incharge of Project

L.S.I

Red

1967

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, GoI-U/T

Address

Office of the Sub Area Manager, Silewara UG Coal Mines, Post Silewara, Tehsil Saoner

Distt Nagpur

Plot no

161

Capital Investment (In lakhs)

1463.0836727

Pincode

441113

Telephone Number

9425833779

Region

SRO-Nagpur I

Last Environmental statement

submitted online

ves

Consent Valid Upto

2022-03-31

Industry Category Primary (STC Code)

Product Information

Product Name

& Secondary (STC Code)

COAL

Consent Quantity

0.55

0.097105

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

UOM

0

Silewara City

Village

Nagpur

Designation

Mine Manager, Silewara UG Mine

bchoudhury@westerncoal.gov.in

Industry Type

R35 Mining and ore beneficiation

Consent Issue Date

01.10.2019

Date of last environment statement

submitted

Sep 23 2020 12:00:00:000AM

Actual Quantity

UOM

MT/A

Part-B (Water & Raw Material Consumption)

1) Water Consumption Water Consumption		Cons	ent Quantity in m3/day	Ac	tual Quantity	in m3/dav	
Process		5780	-		50.00	, ,	
Cooling		0.00		0.0	00		
Domestic		2250	.00	22	50.00		
All others		5730	.00	0.0	00		
Total		1376	0.00	77	00.00		
2) Effluent General Particulars	ation in CMD / MLD		Consent	t Quantity	Actual Qua	antity	иом
	mine discharged water-	no mixing)	3320	Quantity	300	incicy	CMD
Domestic Effluent			1350		1350		CMD
2) Product Wise P	rocess Water Consum	ption (cubic					
meter of process Name of Products	water per unit of prod	uct)	During the Previous	. Dur	ing the curren	rt Einancia	I UOM
Name of Products	(Production)		financial Year	yea.	•	IL FIIIAIICIA	i UUM
Coal			1276250.611	2048	85556.8714		
	onsumption (Consump	otion of raw					
material per unit of Name of Raw Mate			During the Previous	Durin	g the current	Financial	иом
			financial Year	year	9		
Explosive used for b	lasting purpos		316128.7694	33804	6.44457031		
4) Fuel Consumpt	ion						
Fuel Name			nt quantity	Actual Qua	ntity	UOI	-
Diesel		0		5875		Ltr/A	A
Part-C							
Pollution discharg	ged to environment/un	it of output (F	Parameter as specified i	n the consen	t issued)		
[A] Water	Ouantity of	Consont	ration of Pollutants	Dorsontoss	of variation		
Pollutants Detail	Quantity of Pollutants discharged (kL/day)		ed(Mg/Lit) Except	from presc	e of variation ribed with reasons		
	Quantity	Concentr	ration	%variation		Standard	Reason
Air & Water quality monitoring report uploaded	0	0		-		-	-
[B] Air (Stack)							
Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration discharged (Mg/NM3)	Percentage o from prescrib standards wit	ed		
	Quantity	Concentration	on	%variation		Standard	Reason
Not Applicable	0	0		-		-	-

HAZARDOUS WA 1) From Process Hazardous Wast 0		Total Duri 0	ng Previous Fin	ancial year	T 0	otal Durin	ng Current Financial	year	UOM CMD
2) From Pollutio	n Contro	ol Facilities	•						
Hazardous Wast			-	Financial year	7	otal Dur	ing Current Financia	al year	UOM
0		0	-	-	()	_	-	CMD
Part-E									
SOLID WASTES									
1) From Process			D			T-4-1 D-	····· 6 ······ 1 5 ·····		
Non Hazardous NA	waste i	ype rotar O	During Previous	s rinanciai year		Otal Du	ring Current Financ	ai year	UOM CMD
2) From Pollutio			-						
Non Hazardous NA	Waste I	уре	1 otal During I 0	Previous Financia	ai year	l otal 0	During Current Fin	ancıal year	UOM CMD
NA			0			0			CMD
3) Quantity Recy	cled or	Re-utilized	l within the						
unit	, 0.00. 01								
Waste Type				Total During Pro year	evious	Financial	Total During Curr year	ent Financial	UOM
0				0			0		CMD
Part-F									
				centration and qu categories of wa) of haza	rdous as well as sol	id wastes and	<u>d</u>
1) Hazardous W	aste								
Type of Hazardo	us Wast	e Generate	ed Qty	of Hazardous Wa	ste	UOM CMD	Concentration of Ha	azardous Was	ste
2) Solid Woote									
2) Solid Waste Type of Solid Wa	aste Gen	erated	Ot	y of Solid Waste		иом	Concentration of S	olid Waste	
NA NA	iste Gen	crutcu	0	y or some truste		CMD	0	ond Waste	
Part-G									
Impact of the po	ollution (Control me	asures taken or	n conservation of	natura	nl resourc	ces and consequenti	y on the cost	of
Description	Reducti Water Consum (M3/day	nption	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Powe	r umption	Capital Investment(in Lacs)	Reduction i Maintenand Lacs)	
Impact of the pollution Control measures taken	15610.6		-0.012129	5963	48982		0	-39.04	

measures taken

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)

14

Capital Expenditure

Implementation of Air and water Pollution Control

Measures

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:



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

Consent Issue Date

Date of last environment

30-09-2021

PART A

Company Information

Company Name Application UAN number

Singhori Opencast Coal Mine of M/s Western Coal MPCB-CONSENT-0000085095 fields Limited, (A subsidiary of Coal India

LtdGovt. of India Undertaking

Address

Office of the Sub Area Manager, Bhanegaon Singhori Sub Area, WCL Nagpur Area

Taluka Village

Topo Sheet No 55-O/3, Village Singhori Paresoni Coal Mining Area in Maharashtra

Capital Investment (In lakhs) Scale City 10073.91328 L.S.I Nagpur

Pincode **Person Name** Designation

441105 Deepak Walke Manager of the Singhori OC Mine

Telephone Number Fax Number **Email**

7122643547 07122643547 cilsambssa@gmail.com

Consent Number

Region **Industry Category Industry Type**

R35 Mining and ore beneficiation SRO-Nagpur I Red

online

MPCB-CONSENT-0000085095/CO-20070000/2 2020-07-01 yes

Consent Valid Upto statement submitted

Establishment Year

2021-03-31 2018 Sep 23 2020 12:00:00:000AM

Industry Category Primary (STC Code) &

Last Environmental statement submitted

Secondary (STC Code)

Product Information

Product Name Consent Quantity Actual Quantity UOM COAL 1.12 1.119991 MT/A

By-product Information

By Product Name Consent Quantity Actual Quantity UOM NA 0 0 CMD

Part-B (Water & Raw Material Consumption)

1) Water Consum					
Water Consumpti Process	on for	Consent Quantity 296.00	ın m3/day	Actual Quantity in 275.00	m3/day
Cooling		0.00		0.00	
Domestic		50.00		30.00	
All others		275.00		0.00	
Total		621.00		305.00	
2) Effluent Genera	ation in CMD / MLD)			
Particulars			nt Quantity	Actual Quantity	UOM
Trade effluent		2964		4495	CMD
domestic effluent		20		18	CMD
	Process Water Cons				
Name of Products	water per unit of page (Production)		the Previous	During the curren	nt UOM
	(financia		Financial year	
Minerals		89686.6	7964	89621.25589	
	Consumption (Cons	umption of raw			
material per unit Name of Raw Mat			g the Previous	During the curi	rent UOM
Explosive used for b	plasting purpose		cial Year 355.387	Financial year 1390696.8	
4) Fuel Consumpt Fuel Name	tion	Consent quantity	Actual	Quantity	иом
Diesel		0	134750	-	Ltr/A
Part-C					
	ged to environmen	t/unit of output (Parameter as	specified in the co	nsent issued)	
[A] Water Pollutants Detail	Quantity of	Concentration of Pollu	itants Perce	ntage of	
	Pollutants discharged (kL/day)	discharged(Mg/Lit) Ex PH,Temp,Colour	cept variat presci	ion from ribed standards reasons	
	Quantity	Concentration	%vari		andard Reason
Environment Monitoreports uploaded	oring 0	0	0	0	0
[B] Air (Stack)					
Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/NM3)	Percentage of variation from prescribed stand with reasons		
	Quantity	Concentration	%variation	Standard	Reason
Not applicable on Coal mines	0	0	Not applicable on mines	Coal Not applicable on Coal mines	• •
Part-D					

	0	_	ous Financial year	0	al During	Current Financial	year	UOM CMD
2) From Pollution Hazardous Was			Previous Financial y		otal Dunin	a Current Einensi	al was r	иом
0	te rype	0	revious Filialicial y	0	otai Duilli	g Current Financi	ai yeai	UUM
Part-E								
SOLID WASTES								
1) From Process Non Hazardous Overburden (soil)	Waste Type	Total During I 4071000	Previous Financial y		tal During 21816	Current Financia	-	<i>UOM</i> M3/Anum
2) From Pollutio								
Non Hazardous Not applicable	waste Type	1 otal 1 0	During Previous Fin	ancıaı year	O Otal D	Ouring Current Fin	ancıaı year	UOM MVA
3) Quantity Rec	ycled or Re-	utilized within	the					
Waste Type			Total Durin	g Previous F	inancial	Total During Curr	ent Financia	I UOM
0			year 0			year 0		CMD
Part-F								
Please specify t			of concentration and these categories of		of hazard	lous as well as sol	lid wastes an	nd
Please specify t indicate disposa 1) Hazardous W	al practice ad	dopted for both	these categories o	of wastes.				
Please specify t	al practice ad	dopted for both		of wastes.		lous as well as sol		
Please specify to indicate disposations with the indicate disposation of the indicate	al practice ad	dopted for both	o these categories of these categories of the Qty of Hazardou	of wastes.	иом с			
Please specify tindicate disposa 1) Hazardous W Type of Hazardo	al practice ad laste ous Waste G	dopted for both	o these categories of these categories of the Qty of Hazardou	of wastes. us Waste	ИОМ С		azardous Wa	este
Please specify tindicate disposa 1) Hazardous W Type of Hazardo 2) Solid Waste Type of Solid W	al practice ad laste ous Waste G	dopted for both	Qty of Hazardou O Qty of Solid W	of wastes. us Waste	иом с 0 иом	oncentration of Ho	azardous Wa	este
Please specify to indicate disposations. 1) Hazardous With Type of Hazardous Output Control of Solid Waste Type of Solid With Overburden Part-G	al practice ad laste ous Waste G laste Genera	enerated ted	Qty of Hazardou O Qty of Solid W	of wastes. us Waste	UOM C 0 UOM Ltr/Hr	oncentration of Ho Concentration of Soil	azardous Wa Solid Waste	aste
Please specify to indicate disposation of the please specific disposation of	al practice advantage of the consumption of the con	enerated ted trol measures t in Reduction Fuel & S on Consum	Qty of Hazardou 0 Qty of Solid Was 3421816 aken on conservation on in Reduction Solvent Raw ption Material	of wastes. us Waste aste on of natural on in Reduce Power	UOM COOL OO	oncentration of Ho Concentration of Soil	azardous Wa Solid Waste	et of
Please specify to indicate disposations. 1) Hazardous W Type of Hazardous O O O O O O O O O O O O O O O O O O O	al practice advantage of the second control	enerated ted trol measures t in Reduction Fuel & S	Qty of Hazardou 0 Qty of Solid Wa 3421816 aken on conservation Solvent Raw ption Material (Kg)	on of natural on in Reduct Power (KWH)	UOM COOL O UOM Ltr/Hr resourcestion in implication	Concentration of Haracon of Concentration of Soil s and consequents Capital Investment(in	azardous Wa Solid Waste ly on the cos Reduction Maintenar	et of

Detail of measures for Environmental Protection

Environmental Protection Measures

Capital Investment (Lacks)

Capital Expenditure

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 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:



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

Address

Makardhokra Sub Area Manager, WCL, Umrer Area, Hevati, Tal: Umred, Dist: Nagpur

Plot no

Toposheet no. 55 P/5 of Survey of India

Capital Investment (In lakhs)

51907.00 *Pincode*

441204

Telephone Number

9421706658

Region

SRO-Nagpur II

Last Environmental statement

submitted online

ves

Consent Valid Upto

31/03/2021

Industry Category Primary (STC Code)

& Secondary (STC Code)

Application UAN number

MPCB-CONSENT-0000062939

Taluka

Umred

Scale L.S.I

Person NameP. H. Nimbalkar

. II. Millibalkai

Fax Number 07116247374

Industry Category

Red

Consent Number

Format 1.0/CAC/UAN

No.0000062939/CO-2002001040

Establishment Year

2016

Village

Hevati

City

Nagpur

Designation

Sub Area Manager

Email

sammkd3umrer@gmail.com

Industry Type

R35 Mining and ore beneficiation

Consent Issue Date

25/02/2020

Date of last environment statement

submitted

Sep 28 2020 12:00:00:000AM

Product Information

Product NameConsent QuantityActual QuantityUOMCoal4.202.413MT/A

By-product Information

By Product NameConsent QuantityActual QuantityUOMNA0MT/A

Part-B (Water & Raw Material Consumption)

Water Consumpti Process	ption in m3/day ion for	Consent Qu 1000.00	antity in m3/	-	Actual Quantit 650.00	y in m3/day	′
Cooling		0.00			0.00		
Domestic		350.00			61.20		
All others		0.00			0.00		
Total		1350.00			711.20		
	ation in CMD / MLD						
Particulars Mine Discharge			Consent Quai 2850	-	Actual Quantit 2822	-	UOM CMD
	Process Water Consum	ption (cubic meter of	,				
process water pe Name of Products			Durin	g the Previous	During the	e current	иом
			financ	ial Year	Financial		
Coal (Cubic meter/	tonne)		0.057		0.098		CMD
	Consumption (Consump	otion of raw material					
per unit of production Name of Raw Material			Durina th	ne Previous	During the	current	иом
name of han that	.c.ruis		financial		Financial ye		0011
Explosive (Kg/ tonn	e)		1.68		2.307		CMD
4) Fuel Consumpt	tion	_					
Fuel Name		Consent qua	ntity	Actual (0	Quantity	UOI CMI	
NA		0		U		CML	J
Part-C							
	ged to environment/un	it of output (Paramet	ter as specific	ed in the conse	ent issued)		
[A] Water Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Po discharged(Mg/Lit) PH,Temp,Colour Concentration		from presc	with reasons	Standard	Reason
Report Enclosed	0	0		0		0	0
[B] Air (Stack)							
Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Podischarged(Mg/NM)		from presci	of variation ribed with reasons		
	Quantity	Concentration		%variation		Standard	
	Δ	0		0		0	0
Not Applicable	0	U		ŭ		· ·	Ü

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type Total During Previous Financial year

Total During Current Financial year

UOM CMD

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

50	OLIL) W	4 <i>ST</i>	ES
1)	Fre	om I	Proc	ess

Non Hazardous Waste TypeTotal During Previous Financial yearTotal During Current Financial yearUOMOver Burden1546292411783870M3/Anum

2) From Pollution Control Facilities

Non Hazardous Waste TypeTotal During Previous Financial yearTotal During Current Financial yearUOMNA0CMD

3) Quantity Recycled or Re-utilized within the

Waste Type
Total During Previous Financial year

Total During Current Financial UOM year

O O 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 GeneratedQty of Hazardous WasteUOMConcentration of Hazardous Waste5.1 Used or spent oil3.709KL/ASold to authorized recycler35.3 Chemical sludge from waste water treatment34.90Ton/YDisposed by MEPL, Butibori

2) Solid Waste

Type of Solid Waste GeneratedQty of Solid WasteUOMConcentration of Solid WasteOver Burden11783870M3/AnumOB 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)		Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
-	0	0	0	0	0	0

Part-H

Detail of measures for Environmental Protection

Environmental Protection Measures

Capital Investment

Capital Expenditure

Environmental Protection Measures

(Lacks)

Revenue Expenditure

Plantation, Dust suppression and Monitoring 56.33

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection Environmental Protection Measures

Capital Investment (Lacks)

Proposed Capital Budget

Dust suppression and monitoring

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:



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

Address

Gokul Opencast Mine, 40 A, Piraya, Tal:

Bhiwapur, Dist: Nagpur

Plot no

Capital Investment (In lakhs)

24893

Pincode

441201

Telephone Number

9579073457

Region

SRO-Nagpur II

Last Environmental statement

Industry Category Primary (STC Code)

submitted online

yes

Consent Valid Upto

31/08/21

0 = , 0 0 , = =

& Secondary (STC Code)

Application UAN number

MPCB-CONSENT-0000043038

Taluka

Bhiwapur

Scale

LSI

Person Name

Pankaj Kumar

Fax Number

07116247374

Industry Category

Red

Consent Number

FORMAT 1.0/BO/CAC-Cell/CAC-UAN

No.43038/CAC-1901000314

Establishment Year

2015

Village

Piraya

City

NAGPUR

Designation

Sub Area Manager

Email

samgokuloc@gmail.com

Industry Type

R35 Mining and ore beneficiation

Consent Issue Date

05/01/19

Date of last environment statement

submitted

Sep 28 2020 12:00:00:000AM

Product Information

Product NameConsent QuantityActual QuantityUOMCoal1.8751.875MT/A

By-product Information

By Product NameConsent QuantityActual QuantityUOMNA0CMD

Part-B (Water & Raw Material Consumption)

1) Water Consumpti		Consent Quantit	ty in m3/day	Actual Quantit	y in m3/day	•
Process		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		
	ation in CMD / MLD					
Particulars Mino Discharge			ent Quantity	Actual Quantit	-	<i>UOM</i> CMD
Mine Discharge		2430		2430		СМД
2) Product Wise F process water pe	Process Water Consum	ption (cubic meter of				
Name of Products			During the Previo	us During th Financial		UON
Coal (Cubic meter/	tonne)		0.086	0.049		CMD
	Consumption (Consump	otion of raw material				
per unit of production Name of Raw Mat			During the Previous	During the	current	UOI
		1	financial Year	Financial y		001
Explosive (Kg/ tonn	e)	2	1.65	2.36		CMD
4) Fuel Consumpt	ion					_
Fuel Name -		Consent quantity 0	Actua 0	l Quantity	UON CMD	
Part-C						
	ged to environment/un	nit of output (Parameter as	s specified in the co	nsent issued)		
[A] Water Pollutants Detail	Quantity of	Concentration of Polluta	nts Percent.	age of variation		
	Pollutants	discharged(Mg/Lit) Exce	pt from pre	escribed		
	discharged (kL/day) Quantity	PH,Temp,Colour Concentration	standar %variati	ds with reasons	Standard	Reason
Report Enclosed	0	0	0	on.	0	0
[B] Air (Stack)						
Pollutants Detail	Pollutants discharged (kL/day)	Concentration of Polluta discharged(Mg/NM3)	from pre standard	s with reasons		
Not Applicable	Quantity 0	Concentration 0	%variatio 0	on	Standard 0	Reaso 0
Mor Applicable	V	U	U		U	U

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type Total During Previous Financial year
0 0

Total During Current Financial year

UOM CMD

Hazardous W	aste Type		Total During	g Previous F	inancial	Tota	al During Current Financial	иом
			year	,		year	_	
5.1 Used or sp	ent oil		6.05			6.3		KL/A
35.3 Chemical	sludge from was	te water treatment	15.47			34.8	6	Ton/\
Part-E								
SOLID WAST								
1) From Proc		Total During Pre	vious Financ	ial vear	Total Di	ırina C	urrent Financial year	иом
Over Burden	us waste Type	15028997	vious i mane	ar year	8351432	_	arrene i manciar year	M3/Anum
	ution Control Fa							
Non Hazardo	us Waste Type		ring Previous	Financial ye		tal Dui	ring Current Financial year	
-		0			0			CMD
3) Quantity Funit	Recycled or Re-u	ıtilized within the						
Waste Type				uring Previo	us Financi		otal During Current Financi	al UOM
0			year 0			yε 0	ear	CMD
Ŭ			v			Ū		CIND
Part-F								
		ristics(in terms of lopted for both th				zardou	ıs as well as solid wastes a	nnd
1) Hazardous	s Waste							
	rdous Waste Ge	enerated	Qty of Haza	rdous Waste	9		Concentration of Hazardo	us Waste
5.1 Used or sp			6.3			KL/A	Sold to authorized recycler	
35.3 Chemical	sludge from was	te water treatment	34.86			Ton/Y	Disposed by MEPL, Butibori	
2) Solid Was						_		
Over Burden	l Waste Generat		Qty of Solid V 3351432	Vaste	<i>UOM</i> M3/Anum		Incentration of Solid Wast o B dump site	9
Over Burden		`	7551152		1-15/7 (114111	0.	damp site	
Part-G								
Impact of the production.	e pollution Cont	rol measures tak	en on conser	vation of na	tural resou	ırces a	and consequently on the co	st of
			Fuel Reduc	tion in Red	uction in	_	apital Reduction	

0

0

0

0

0

Part-H

0

Detail of measures for Environmental Protection

Environmental Protection Measures

Capital Investment (Lacks)

Capital Expenditure Environmental Protection Measures

Revenue Expenditure Plantation, Dust Suppression and Monitoring 41.15

[B] Investment Proposed for next Year

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

Proposed Capital Budget Environmental Protection Measures 1:

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:



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

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: Umred, Distt: Nagpur, Pin 441204, Maharashtra.

Plot no

Capital Investment (In lakhs)

19148.00

Pincode 441204

Telephone Number

9421706658

Region

SRO-Nagpur II

Last Environmental statement submitted

online yes

Consent Valid Upto

31/03/21

Industry Category Primary (STC Code) &

Secondary (STC Code)

Coal

Application UAN number

MPCB-CONSENT-0000024388

Taluka Umred

Scale LSI

Person Name P. H. Nimbalkar

Fax Number 07116247374

Industry Category

Red

Consent Number

Format 1.0/BO/CAC-CELL/CAC-UAN No.24388/CC-1901000356

Establishment Year

2014

Village Shirpur

City Nagpur

Designation Sub Area Manager

sammkdumrer@gmail.com

Industry Type

R35 Mining and ore beneficiation

Consent Issue Date

05/01/19

Date of last environment statement

submitted

Sep 26 2020 12:00:00:000AM

Product Information

Product Name Consent Quantity Actual Quantity UOM 2.0 1.99 MT/A

By-product Information

By Product Name **UOM Consent Quantity Actual Quantity** NA 0 0 CMD

Part-B (Water & Raw Material Consumption)

Water Consumpti Process	ption in m3/day on for	Consent Quan 470.00	ntity in m3/day	Actual Quantit 470.00	y in m3/da _}	/	
Cooling		0.00		0.00			
Domestic		10.00	10.00	10.00			
All others		0.00		0.00			
Total		480.00		480.00			
	ation in CMD / MLD						
Particulars Mine discharge		Co l	nsent Quantity 58	Actual Quantit 2268	-	UOM CMD	
	Process Water Consum	ption (cubic meter of					
process water per Name of Products			During the Previ	ous During the	e current	иом	
			financial Year	Financial			
Coal (Cubic meter/t	onne)		0.086	0.086		CMD	
	Consumption (Consump	otion of raw material					
per unit of production Name of Raw Mat			During the Previous	During the	current	UOM	
			financial Year	Financial ye			
Explosive (Kg/tonne	<u>)</u>		2.75	2.48		CMD	
4) Fuel Consumpt	tion						
Fuel Name		Consent quantity		al Quantity	<i>UOI</i> CME	- -	
-		0	0		CML	,	
Part-C							
	ged to environment/un	it of output (Parameter	as specified in the co	onsent issued)			
[A] Water Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollu discharged(Mg/Lit) Exc PH,Temp,Colour Concentration	cept from pr	tage of variation rescribed rds with reasons tion	Standard	l Reason	
Report enclosed	0	0	0		0	0	
[B] Air (Stack)							
Pollutants Detail	Pollutants discharged (kL/day)	Concentration of Pollo discharged(Mg/NM3)	from pro standar	ds with reasons			
	Quantity	Concentration	%variati	ion	Standard		
	0	0	0		0	0	
Not Applicable	U	U	Ü		v		

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type Total During Previous Financial year

Total During Current Financial year

UOM CMD

Hazardous W	ıtion Control Fa 'aste Type	Cilities	Total	During Previo	ous Finai	ncial	Tota	l During Current Financia	I UO
			year	-			year		
5.1 Used or sp	ent oil		11.26				8.242	2	KL/
35.3 Chemical	sludge from was	te water treatment	0.504				27.13	3	Ton
Part-E									
SOLID WASTI									
1) From Proc Non Hazardo		Total During Pro	evious F	inancial vear	. т	otal Dur	ina C	urrent Financial year	иом
Over Burden		11554329		,		5174959	_		M3/Anu
	ıtion Control Fa								
Non Hazardo	us Waste Type		ring Pro	evious Financ	ial year		al Dui	ing Current Financial yea	
-		0				0			СМ
3) Quantity R unit	Recycled or Re-u	ıtilized within th	e						
Waste Type				otal During P	revious l	Financia		otal During Current Financ	cial UO
0			y 0	ear			yε 0	ear	СМ
Part-F									
		ristics(in terms of lopted for both t) of haz	ardou	ıs as well as solid wastes	and
1) Hazardous	s Waste								
	rdous Waste Ge	enerated	-	f Hazardous V	Vaste			Concentration of Hazard	ous Was
5.1 Used or sp			8.242				KL/A	Sold to authorized recycler	
35.3 Chemical	sludge from was	te water treatment	27.13				Ton/Y	Disposed by MEPL, Butibori	
2) Solid Was									
Type of Solid Over Burden	Waste Generat	ted	Qty of 3	Solid Waste		OM B/Anum		oncentration of Solid Was B dump	te
Over Burden			101749	J9	IVIS	5/Allulli	U	ь шпр	
Part-G									
Impact of the production.	e pollution Cont	rol measures tak	en on c	onservation (of natura	al resou	rces a	nd consequently on the c	ost of
Description	Reduction in Water	Reduction in & Solvent		Reduction in Raw Material	Reducti Power	ion in		apital Reductio	

0

0

0

0

0

Part-H

0

Detail of measures for Environmental Protection

Environmental Protection Measures

Capital Investment (Lacks)

Capital Expenditure Environmental Protection Measures

Revenue Expenditure Plantation, Dust Suppression and Monitoring 20.29

[B] Investment Proposed for next Year

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

Proposed Capital Budget Environmental Protection Measures 4

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:



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

Address

Sub Area Manager, Murpar UG Mine, WCL Umrer Area, Post: Khadasangi, Tehsil: Chimur, Dist.

Chandrapur, Maharashtra

Plot no

Capital Investment (In lakhs)

2746.00

Pincode

442908

Telephone Number

9579073457

Region

SRO-Chandrapur

Last Environmental statement submitted

online yes

Consent Valid Upto

31.12.2021

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

Application UAN number

MPCB-CONSENT-0000082233

Taluka

Chimur

Scale LSI

Person Name

Pankaj Kumar Fax Number

07116247374

Industry Category

Red

neu

Consent Number

BO/JD(APC)/TB-2UAN No.82233/R/CC-791 24.08.2020

Establishment Year

1992

Village

Khadasangi

City Chimur

Email

Designation

Sub Area Manager

sammurparug@gmail.com

Industry Type

illuusti y i ype

R35 Mining and ore beneficiation

Consent Issue Date

Date of last environment statement

submitted

Sep 28 2020 12:00:00:000AM

Product Information

Product NameConsent QuantityActual QuantityUOMCoal0.270.0528MT/A

By-product Information

By Product NameConsent QuantityActual QuantityUOMNA00CMD

Part-B (Water & Raw Material Consumption)

1) Water Consumpti		Consent Quanti	tv in m3/dav	Actual Quantity	v in m3/das	,
Process	··· 101	60.00	-,, uuy	60.00	, III J/ua)	,
Cooling		0.00		0.00		
Domestic		90.00		90.00		
All others		0.00		0.00		
Total		150.00		150.00		
	ation in CMD / MLD					
Particulars Mino Discharge			ent Quantity	Actual Quantit	-	UOM
Mine Discharge		9214		9214		CMD
	Process Water Consum	ption (cubic meter of				
process water per Name of Products			During the Previou	ıs During th	e current	UOM
	7 (1 1 o a a c a c a c a c a c a c a c a c a c		financial Year	Financial		
Coal (Cubic meter/t	onne)		0.39	0.41		CMD
3) Raw Material C	Consumption (Consum	ption of raw material per				
unit of product)		•			_	
Name of Raw Mat	terials		During the Previous financial Year	During the Financial y		UOM
Explosive(Kg/tonne)		0.55	0.54		CMD
4) Fuel Consumpt	tion					
Fuel Name		Consent quantity	Actual	Quantity	UOI	М
NA		0	0		CME)
Part-C						
	ged to environment/ur	nit of output (Parameter a	s specified in the cons	sent issued)		
[A] Water Pollutants Detail	Pollutants discharged (kL/day)	Concentration of Polluta discharged(Mg/Lit) Exce PH,Temp,Colour	pt from pres standards	s with reasons		
Report Enclosed	Quantity 0	Concentration 0	%variatio 0	П	Standard 0	0 0
[B] Air (Stack) Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Polluta discharged(Mg/NM3)	from preso	e of variation cribed with reasons		
	Quantity	Concentration	%variation	1	Standard	Reason
Not Applicable	0	0	0		0	0
Part-D						
HAZARDOUS WAS	STEC					
1) From Process	7123					

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

1) From Process

Hazardous W	ution Control Fa /aste Type		uring Previous	Financial yea	r	Total Duri	ng Current Finan	cial year	иом
0		0	_	-		0	-	-	CMD
Part-E									
SOLID WAST									
1) From Proc Non Hazardo	ess us Waste Type	Total D	urina Previous	s Financial vea	ər	Total Du	ring Current Final	ncial vear	UOM
NA		0		or maneral yea		0			CMD
2) From Polli	ution Control Fa	cilities							
	us Waste Type		_	Previous Finan	icial year		During Current F	inancial year	UOM
NA			0			0			CMD
3) Quantity I	Recycled or Re-u	utilized 1	within the						
Waste Type				Total During year	Previous	Financial	Total During Cu year	ırrent Financial	UOM
0				0			0		CMD
Part-F									
0	rdous Waste Ge	enerated	Qty 0	of Hazardous I	Waste		Concentration of 0	Hazardous Was	ite
2) Solid Was	<mark>te</mark> I Waste Genera	L od	0+	v of Colid Was	*	иом	Concentration o	f Calid Wasta	
NA	waste General	leu	0	y of Solid Was	te	CMD	0	i Sonu Waste	
Part-G									
Impact of the production.	e pollution Cont	rol mea	sures taken or	o conservation	of natur	al resourc	es and conseque	ntly on the cost	of
production.	Reduction in Water Consumption (M3/day)	Red & So Cons	sures taken or uction in Fuel olvent sumption day)		Reduc I Power	tion in mption	es and conseque Capital Investment(in Lacs)	ntly on the cost Reduction in Maintenanc Lacs)	n
production.	Reduction in Water Consumption	Red & So Cons	uction in Fuel olvent sumption	Reduction in Raw Materia	Reduc I Power Consu	tion in mption	Capital Investment(in	Reduction in Maintenanc	n
production.	Reduction in Water Consumption (M3/day)	Red & So Con: (KL/	uction in Fuel olvent sumption	Reduction in Raw Materia (Kg)	Reduc I Power Consu (KWH)	tion in mption	Capital Investment(in Lacs)	Reduction ii Maintenanc Lacs)	n
production. Description - Part-H Additional m [A] Investme	Reduction in Water Consumption (M3/day)	Red & So Con: (KL/ 0	uction in Fuel olvent sumption (day)	Reduction in Raw Materia (Kg) 0	Reduc I Power Consu (KWH)	tion in mption	Capital Investment(in Lacs)	Reduction in Maintenanc Lacs)	n e(in
production. Description - Part-H Additional m [A] Investme Statement	Reduction in Water Consumption (M3/day) 0	Red & So Con: (KL/ 0	uction in Fuel olvent sumption day) posal for envi	Reduction in Raw Materia (Kg) 0	Reduc I Power Consu (KWH) 0	tion in mption	Capital Investment(in Lacs)	Reduction in Maintenanc Lacs) 0 vention of pollu Capital Investr	n re(in
production. Description - Part-H Additional m [A] Investme Statement	Reduction in Water Consumption (M3/day) 0 easures/investr nt made during	Red & So Con: (KL/ 0	uction in Fuel olvent sumption day) posal for envi	Reduction in Raw Materia (Kg) 0	Reduc I Power Consu (KWH) 0	tion in mption abatement	Capital Investment(in Lacs) 0	Reduction in Maintenanc Lacs) 0	n re(in

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection Environmental Protection Measures

Capital Investment (Lacks)

99.94

Proposed Capital Budget

Proposed Revenue Budget

Dust Suppression and Monitoring

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:



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

Application UAN number

M/s. Western Coalfields Limited, Umrer Opencast MPCB-CONSENT-0000077525

Mine

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)

Scale

City

35412.00

LSI

Nagpur

Email

Pincode

Person Name

Designation

441204

Region

online

yes

P H Nimbalkar

Sub Area Manager

Telephone Number

Fax Number 07116247374

samumreroc@gmail.com

9421706658

SRO-Nagpur II

Industry Category Industry Type

Red

Consent Issue Date

R35 Mining and ore beneficiation

Consent Number

Last Environmental statement submitted

Format 1.0/BO/CAC-Cell/CAC-UAN

no.65263/CAC-1910000121

03/10/2019

Consent Valid Upto

Establishment Year

Date of last environment statement submitted

31/03/2021

1963

Sep 26 2020 12:00:00:000AM

Industry Category Primary (STC Code) &

Secondary (STC Code)

Product Information

Product Name Consent Quantity Actual Quantity UOM 4.90 3.401 Coal MT/A

By-product Information

By Product Name **UOM Consent Quantity Actual Quantity** NA 0 0 CMD

Water Consumpt	nption in m3/day ion for	Consent Quanti	ity in m3/day	Actual Quantity	y in m3/day	,
Process		700.00		700.00		
Cooling		0.00		0.00		
Domestic		726.00		726.00		
All others		0.00		0.00		
Total		1426.00		1426.00		
	ration in CMD / MLD	_				
Particulars Mine Discharge		2650	sent Quantity	Actual Quantit 2646	_	UOM CMD
	Process Water Consum	ption (cubic meter of				
Name of Product	er unit of product) s (Production)		During the Previou	s During the	e current	UOM
Coal(Cubic motor/	[one)		financial Year 0.045	Financial 0.075		CMD
Coal(Cubic meter/I	one)		0.045	0.075		CMD
3) Raw Material (unit of product)	Consumption (Consump	otion of raw material per				
Name of Raw Ma	terials		During the Previous financial Year	During the Financial y		UOM
Explosive(Kg/Tonno	e)		0.484	0.332		CMD
4) Fuel Consump	tion					
Fuel Name -		Consent quantity 0	Actual 0	Quantity	<i>UOI</i> CME	=
Part-C						
	ged to environment/un	nit of output (Parameter a	as specified in the con	sent issued)		
[A] Water Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Polluta discharged(Mg/Lit) Exce PH,Temp,Colour Concentration	ept from pre	s with reasons	Standard	Reasor
Report Enclosed	0	0	0		0	0
[B] Air (Stack) Pollutants Detail	Pollutants discharged (kL/day)	Concentration of Pollut discharged(Mg/NM3)	from pres standards	with reasons		
	Quantity 0	Concentration 0	%variatio 0	n	Standard 0	Reasor 0
Not Applicable	()				~	

HAZARDOUS WASTES
1) From Process

Hazardous Waste Type Total During Previous Financial year

Total During Current Financial year

UOM CMD

-	ution Control Fa	cilities	_			=		
Hazardous V	Vaste Type		Tota year	al During Previ r	ous Financ		otal During Current Financial ear	UON
5.1 Used or sp	ent oil		1.82			-	7.82	KL/A
35.3 Chemica	l sludge from was	te water tre	atment 27.7	6		38	8.96	Ton/
Part-E								
SOLID WAST								
1) From Proc Non Hazardo	ous Waste Type	Total Dur	ing Previous	s Financial year	r Tota	al During	g Current Financial year	иом
Overburden		4849433	_	•		7904	-	M3/Anur
	ution Control Fa							
Non Hazardo -	ous Waste Type	T 0	otal During F	Previous Financ	cial year	Total 1	During Current Financial yea	r UON CMD
3) Quantity I	Recycled or Re-u	utilized wit	thin the					
Waste Type				Total During P	Previous Fi	nancial	Total During Current Financ	ial UOI
0				0			0	CMD
Part-F								
	fy the character posal practice ac					of hazar	dous as well as solid wastes	and
1) Hazardous	s Waste ardous Waste Ge	enerated	Otv	of Hazardous \	Naste	uc	DM Concentration of Hazard	ous Wast
5.1 Used or sp		erreratea	17.8		vaste	KL,		ous wast
35.3 Chemica	l sludge from was	te water tre	atment 38.9	6		To	n/Y Disposed at CHWTSDF	
2) Solid Was								
Over Burden	d Waste Genera	ted	Qty of 376790	Solid Waste 4	UOM M3/Anı		Concentration of Solid Waste Onsite OB dump (Back filling)	
Part-G								
Impact of the production.	e pollution Cont	rol measu	res taken on	conservation	of natural I	resource	es and consequently on the c	ost of
Description	Reduction in Water Consumption	& Solv	tion in Fuel ent mption	Reduction in Raw Material (Kg)	Reduction Power Consump		Capital Reduction Investment(in Maintent Lacs) Lacs)	

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

0

(KWH)

0

0

Part-H

(M3/day)

(KL/day)

0

Detail of measures for Environmental Protection

Environmental Protection Measures Capital Investment

(Lacks)

Capital Expenditure Environmental Works

Revenue Expenditure Plantation and Dust suppression 55.07

[B] Investment Proposed for next Year

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

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:



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

Address

M/s Western Coalfields Ltd., Ghugus Sub Area, P.O Ghugus

Plot no

Capital Investment (In lakhs)

13698.16889

Pincode 442505

Telephone Number

9424666269

Region

SRO-Chandrapur

Last Environmental statement submitted online

yes

Consent Valid Upto

31.03.2022

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

Application UAN number

MPCB-CONSENT-0000022317

Taluka

Ghugus

Scale

L.S.I

Person Name

Shri. Omprakash Fulare

Fax Number

07172275740

Industry Category

Red

Consent Number

Format CAC UAN No.

0000022317/CR-2006001038 dtd. 24/06/2020 valid till 31.03.2022

Establishment Year

2005

Village

Ghugus

City

Chandrapur

Designation

Ghugus Sub Area

Email

waniarea.environdept@gmail.com

Industry Type

R35 Mining and ore beneficiation

Consent Issue Date

24/06/2020

Date of last environment statement

submitted

Sep 7 2021 12:00:00:000AM

Product Information

Product Name Consent Quantity Actual Quantity UOM Coal MT/A

By-product Information

By Product Name **Actual Quantity UOM Consent Quantity** Over Burden 0

NA	0	0		0		0	0
[B] Air (Stack) Pollutants Detail	Pollutants discharged (kL/day) Quantity	Concentration of I discharged(Mg/NN Concentration		from pres standard %variation	s with reasons	Standard	
Mine water	0.0	0.0		0		0	0
	Pollutants discharged (kL/day) Quantity	discharged(Mg/Lit) PH,Temp,Colour Concentration		from pre standaro %variati	escribed ds with reasons	Standard	
Pollution dischar [A] Water Pollutants Detail	ged to environment/un	it of output (Parame	-		esent issued)		
Part-C							
Diesel		0	-	0	•	Ltr/A	١.
4) Fuel Consump Fuel Name	tion	Consent qu	antitv	Actua	nl Quantity	UON	1
Oil and Grease			0		0	L	.tr/A
Diesel			0		0	L	tr/A
Explosive			financial Yea 0	r	Financial year 0	k	(g/Annur
3) Raw Material (per unit of produ Name of Raw Ma		otion of raw material	During the Pi		During the curi	rent l	JOM
Coal			0		0	k	(g/Annui
Name of Product			During the financial Ye		During the cur Financial year	•	JOM
	Process Water Consum er unit of product)	ption (cubic meter o	<u>f</u>				
Domestic		2	2400		2400	C	MD
2) Effluent Gener Particulars Trade Effluent	ration in CMD / MLD		Consent Quantit 700	у	Actual Quantity 700		ОМ MD
Total		3700.00			3700.00		
All others		700.00			700.00		
Domestic		3000.00			3000.00		
Process Cooling		0.00			0.00		
Water Consumpt	1011 101		uantity in m3/da	У	Actual Quantity	ili ilis/uay	

WAZARROUG W								
HAZARDOUS W	ASTES							
1) From Proces								
_		During Previous F	inancial year		ıring Current	Financial year		UOM
0	0			0			L	_tr/A
2) From Polluti	on Control Fac	ilities						
Hazardous Was	ste Type 1	otal During Previo	us Financial year	r Total D	uring Curren	t Financial yea	ar UO	M
0	C	1		0			Ton	ı/Y
Part-E								
SOLID WASTES								
1) From Proces								_
		Total During Previo	ous Financial yea		uring Current	Financial yea		
Over burden	,	0		0			M3/A	.num
2) From Polluti			- Di 5i	sial To	atal Barria - Ca	F i		
Non Hazardous	waste rype	1 otal During 0	g Previous Finan	ciai year 10 0	tai During Ci	ırrent Financia	-	<i>UOM</i> CMD
IVA				U				טויוג
3) Quantity Red	cycled or Re-ut	ilized within the						
Waste Type			Total During I	Previous Financ	ial Total Du	ring Current F	inancial L	UOM
			year		year			
0			0		0		C	CMD
indicate dispos		stics(in terms of co opted for both thes			azardous as v	vell as solid wa	astes and	
1) Hazardous V								
Type of Hazard	<mark>Vaste</mark> ous Waste Ger	nerated		Qty of Hazardo	ous UOM	Concentratio	n of Hazardo	ous
	ous Waste Ger		of alapping /	Waste		Waste	n of Hazard	ous
	ous Waste Ger	nerated aste water arising out	t of cleaning /		Dus UOM Ton/Y	Waste	n of Hazard	ous
34.2 Sludge from disposal of barre 2) Solid Waste	ous Waste Ger treatment of wals / containers	aste water arising out		Waste 0	Ton/Y	Waste NIL		ous
34.2 Sludge from disposal of barre	ous Waste Ger treatment of wals / containers	aste water arising out	t of cleaning / ty of Solid Waste	Waste 0	Ton/Y Concen	Waste		lous
34.2 Sludge from disposal of barre 2) Solid Waste Type of Solid W Over Burden	ous Waste Ger treatment of wals / containers	aste water arising out		Waste 0 e UOM	Ton/Y Concen	Waste NIL		lous
34.2 Sludge from disposal of barre 2) Solid Waste Type of Solid W Over Burden Part-G	ous Waste Ger treatment of wals / containers	aste water arising out	ty of Solid Waste	Waste 0 • UOM M3/Anun	Concen n NIL	Waste NIL tration of Solid	d Waste	
34.2 Sludge from disposal of barre 2) Solid Waste Type of Solid W Over Burden Part-G Impact of the p	ous Waste Ger treatment of wals / containers	ed Q i	ty of Solid Waste	Waste 0 • UOM M3/Anun	Concent NIL	Waste NIL tration of Solid	d Waste	
34.2 Sludge from disposal of barre 2) Solid Waste Type of Solid W Over Burden Part-G Impact of the pproduction.	treatment of wals / containers // aste Generate Reduction in Water Consumption	Reduction in Fuel & Solven Consumption	on conservation Reduction in Raw Material	waste 0 was	Concent NIL urces and contain Capital Investment	Waste NIL tration of Solid nsequently on Renent(in Ma	d Waste	
34.2 Sludge from disposal of barre 2) Solid Waste Type of Solid W Over Burden Part-G Impact of the pproduction.	treatment of wals / containers /aste Generate collution Contro	ed Que of measures taken Reduction in Fuel & Solven	on conservation Reduction in Raw	Waste 0 Waste Was	Concent NIL urces and contain Capital Investment	waste NIL tration of Solid nsequently on Renent(in Ma	the cost of eduction in aintenance(i	

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)

NIL

NIL

0

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection Environmental Protection Measures Capital Investment

(Lacks)

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

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

MPCB-ENVIRONMENT_STATEMENT-0000037232

Submitted On:



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

Address

Office of Project Officer, Kolgaon OC

Project

Plot no

Capital Investment (In lakhs)

6145.26313

Pincode 445307

Telephone Number

7774055550

Region

SRO-Chandrapur

Last Environmental statement

submitted online

ves

Consent Valid Upto

31.12.2020

01:11:010

Industry Category Primary (STC Code) & Secondary (STC Code) Application UAN number

Taluka

Wani

Scale

LSI

Person Name

Shri. R. P Singh

Fax Number

07239235104

Industry Category

Red

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)

Establishment Year

2011

Village

Kolgaon

Citv

Yavatmal

ravacinai

DesignationSub Area Manager, Kolgaon

Email

waniarea.environdept@gmail.com

Industry Type

R35 Mining and ore beneficiation

Consent Issue Date

2021-06-25

Date of last environment statement

submitted

Sep 7 2020 12:00:00:000AM

Product Information

Product NameConsent QuantityActual QuantityUOMCoal0.60.4524MT/A

By-product Information

By Product NameConsent QuantityActual QuantityUOMOver Burden01294304CMD

1) Water Consumption Water Consumption		Consent Quant	ity in m3/day	Actual Quant	tity in m3/da	у
Process		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		
	ration in CMD / MLD			_		
Particulars Trade effluent - Doi	mestic	Со 0	nsent Quantity	Actual Quant 26	tity	UOM CMD
Mine water	mestic	0		2400		CMD
2) Product Wice I	Process Water Consump	otion (subjection of				
process water pe Name of Products	r unit of product)	otion (Cubic meter or	During the Pr	evious During t	the current	иом
	,		financial Year	Financia		CMD
Coal			0	0		CMD
3) Raw Material C material per unit	Consumption (Consump	tion of raw				
Name of Raw Mat			g the Previous ial Year	During the cur Financial year	rent	UOM
Explosive		19608	1	446225		Kg/Annum
Diesel		1974		2196		Ltr/A
Oil and Grease		210		105		Ltr/A
4) Fuel Consump	tion					
Fuel Name		Consent quantity		ctual Quantity		OM
Diesel		0	21	.96	Lt	r/A
Part-C						
Pollution discharg	ged to environment/uni	it of output (Parameter a	as specified in th	e consent issued)		
Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollut discharged(Mg/Lit) Exc PH,Temp,Colour Concentration	ept froi stai	centage of variation n prescribed ndards with reasons ariation	5	d Reason
Mine water	2400	0	0		0	0
[B] Air (Stack)						
Pollutants Detail	Quantity of Pollutants discharged (kL/d	Concentration of Po discharged(Mg/NM3 ay)	3) fro	rcentage of variation om prescribed andards with reason		
	Quantity	Concentration		ariation		d Reason
NO AIR STACK MONITORING	0	0	0		0	0

Part-D

1) From Process Hazardous Waste Type 0	Total During Previou 0.0	ıs Financial year	Total During Current Financial year 0.0	UOM KL/A
2) From Pollution Contro		,		
Hazardous Waste Type	-	vious Financial year	Total During Current Financial year	UOM Tan//
0	0.0		0.0	Ton/Y
Part-E				
SOLID WASTES				
1) From Process Non Hazardous Waste T	iumo Total During Dr	ovieus Einonsial voor	Total During Current Einensiel voor	иом
Over burden	774267	evious Financiai year	Total During Current Financial year 1294304	M3/Anum
2) From Pollution Contro	ol Facilities			
Non Hazardous Waste T		ring Previous Financial	year Total During Current Financial yea	r UOM
NIL	0		0	CMD
2) Occupito Bassala I am	Be will a decide to			
3) Quantity Recycled or unit	Ke-utilizea within th	<u>e</u>		
Waste Type		Total During Prev	ious Financial Total During Current Financ	cial UOM
,,		year	year	
0		0	0	CMD
Part-F				
Please specify the chara indicate disposal practic			ntum) of hazardous as well as solid wastes	and
1) Hazardous Waste				
Type of Hazardous Wast	te Generated	Qty of Hazardous Was	te UOM Concentration of Hazardous	Waste
0		0	CMD -	
2) Solid Waste				
Type of Solid Waste Ger	-			
Overburden	1294304	CMD OB is stac maintaine	ked at earmarked site and proper benching & slo d	pe angle is
Part-G				

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

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

NIL

NIL

(Lacks)

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection

Environmental Protection Measures Capital Investment (Lacks)

Installation of rooftop rainwater harvesting structure at Manager office Ground water

6.00

0

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, Sub Area Manager, Mungoli

UAN No:

MPCB-ENVIRONMENT STATEMENT-0000036821

Submitted On:



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

Address

Mungoli Nirguda Extension Deep Open Cast

Project, Sakhara

Plot no

PIOT NO

Capital Investment (In lakhs)

41516.42926

Pincode

445307

Telephone Number

7774055550

Region

SRO-Chandrapur

Last Environmental statement submitted online

yes

Consent Valid Upto

31/03/2021

& Secondary (STC Code)

Industry Category Primary (STC Code)

Application UAN number

MPCB-CONSENT-0000088073

Taluka

Wani

Scale

L.S.I

Person Name

R. P Singh

Fax Number

07239235104

0/239233104

Industry Category

Red

Consent Number

Format 1.0/CC/ UAN No. 0000088073/CO-2005000512 dtd. 20/05/2020

valid till 31/03/2021

Establishment Year

2019

Village

Sakhara

Citv

Yavatmal

Designation

Designation

Sub Area Manager, Mungoli

Email

sammungoli@gmail.com

Industry Type

R35 Mining and ore beneficiation

Consent Issue Date

2020-09-04

2020-03-04

Date of last environment statement

submitted

Sep 4 2020 12:00:00:000AM

Product Information

Product NameConsent QuantityActual QuantityUOMCOAL4.3754.315MT/A

By-product Information

By Product NameConsent QuantityActual QuantityUOMOver burden1927500022669927

1) Water Consumption Water Consumption Process		Consent Quantity	in m3/day		al Quantity	in m3/day	,
Cooling		0.00		0.00			
Domestic		0.00	0.00 356.00		20		
All others		356.00	1330.00				
		1330.00					
Total		1686.00		1686	.00		
2) Effluent Genera	ation in CMD / MLD						
Particulars Trade effluent		Conser 15050	nt Quantity	Actu 1505	al Quantity		<i>uom</i> CMD
Domestic effluent		282		282	O		CMD
2) Product Wise P	Process Water Consump	otion (cubic meter of					
Name of Products			During the		During the Financial y		UOM
Coal			0		0	Cui	CMD
	Consumption (Consump	tion of raw					
material per unit Name of Raw Mat		During the financial Yo		During : Financia	the current al year	:	иом
Explosive		4243009		5731116	-		Kg/Annum
Diesel		6003769		6332406	5		Ltr/A
Oil and Grease		274483		270190			Ltr/A
4) Fuel Consumpt	ion						
Fuel Name Diesel		Consent quantity 0		Actual Quantit 6332406	ty	UC Ltr	
Part-C							
Pollution discharg	ged to environment/uni	t of output (Parameter as	specified in	n the consent is	ssued)		
Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutar discharged(Mg/Lit) Excep PH,Temp,Colour Concentration	t	Percentage of from prescribe standards with %variation	ed	Standard	l Reason
Mine water	16380	0		-			-
[B] Air (Stack)							
Pollutants Detail	Quantity of Pollutants discharged (kL/da	Concentration of Pollu discharged(Mg/NM3) y)	tants	Percentage of from prescribe standards wit	ed		
	Quantity	Concentration		%variation		Standard	l Reason
NO AIR STACK MONTORING	0	0		-		-	

Part-D

uring Previous Finai	ncial year		ring Current Financial year	иом
uring Previous Final	ncial year		ring Current Financial year	UOM
		30.45		KL/A
		6		Ton/Y
_	T-1-1 D		7.1.10	
			Financial year	ИОМ
sing out of cleaning 1	12		12	Ton/Y
Previous Financial	year 1	Total During (Current Financial year	иом
	2	2669927	•	M3/Anum
During Previous Fin	nancial year		uring Current Financial year	
		0		CMD
the				
Total Durin year	ng Previous		_	ial UOM
0		()	CMD
		m) of hazardo	ous as well as solid wastes a	and
Qty of Hazard Waste	ious UOM	Concentrat	ion of Hazardous Waste	
30.45	KL/A			ustries,
6	Ton/Y	5.16 Tonnes	was disposed off to CHWTSDF,	Butibori
sing 12	Ton/Y	17.76 Tonne	s was disposed off to CHWTSDF	[:] , Butibori
	Previous Financial y During Previous Fin the Total During year 0 Sof concentration as the these categories of Waste 30.45 6 Sing 12	Financial yes sing out of cleaning 12 Previous Financial year 2 During Previous Financial year Total During Previous year 0 s of concentration and quantum th these categories of wastes. Qty of Hazardous UOM Waste 30.45 KL/A 6 Ton/Y	Previous Financial year Total During (22669927) During Previous Financial year Total During Previous Financial of the Total During Previous Financial of year of concentration and quantum of hazarde that these categories of wastes. Qty of Hazardous Wom Concentration Waste of KL/A 42 KL got lift Rohtak, Hary of Ton/Y 5.16 Tonnes of the total provided in the second of th	Financial year 12 12 Previous Financial year 22669927 During Previous Financial year 0 the Total During Previous Financial year 0 the Total During Previous Financial Total During Current Financial year 0 s of concentration and quantum) of hazardous as well as solid wastes at these categories of wastes. Qty of Hazardous UOM Concentration of Hazardous Waste Waste 30.45 KL/A 42 KL got lifted by coprocessor M/s. Om Ind Rohtak, Haryana. 6 Ton/Y 5.16 Tonnes was disposed off to CHWTSDF, sing 12 Ton/Y 17.76 Tonnes was disposed off to CHWTSDF, 17.76 Tonnes was disposed off to CHWTSDF.

Part-G

Over Burden

Type of Solid Waste Generated Qty of Solid Waste UOM

7257764

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

Concentration of Solid Waste

proper benching and slope angle.

M3/Anum Overburden is properly stacked at earmarked sites by maintaining

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	0.0	0.90	4077	945999	4539606564	0.0

Part-H

resource

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)
Installation of water meter	Water Quantity Monitoring	2

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



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 Application UAN number

Bellora Naigaon Open Cast Mine 0000044071

Address

WCL Wani Area Road, PO: Bellora

Plot no Taluka Village

- Wani -

Capital Investment (In lakhs) Scale City

13147.21181 LSI Yavatmal

Pincode Person Name Designation

445304 Shri. Atul Singh SUB AREA MANAGER

Telephone Number Fax Number Email

7774074645 07722067696 waniarea.environdept@gmail.com

Region Industry Category Industry Type

SRO-Chandrapur Red R35 Mining and ore beneficiation

Last Environmental statement Consent Number Consent Issue Date submitted online

yes Format1.0/ CAC/ UAN No. 29.07.2020

0000044071/CR-2007001683 dtd.

29/07/2020 valid till 31/03/2021

Consent Valid Upto Establishment Year Date of last environment statement

submitted

31.03.2021 2011 Sep 7 2020 12:00:00:000AM

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

 Product Information
 Consent Quantity
 Actual Quantity
 UOM

COAL 1.25 0 MT/A

By-product Information

By Product Name Consent Quantity Actual Quantity UOM

Overburden 0 7631134

Oil and Grease		5662		7495		Ltr/A
2.000.						,
Diesel		88857		91428		Ltr/A
Explosive		284125		197075	5	Kg/Annu
	-	financia		Financ	ial year	
Name of Raw Mat			the Previous		the current	иом
material per unit	of product)					
	onsumption (Consumpti	ion of raw				
3) Paw Material C	onsumption (Consumpti	ion of raw				
			-			-
Coal			0		0	CM
Coal					-	CM
			financial Year		Financial year	
	(1.10.0.0.0.1)					-
Name of Products	(Froduction)			evious		. 00
Name of Products	(Production)		During the Pre financial Year	evious	During the curren Financial year	t UO
Name of Froducts	(Floudction)			evious		. 00
Cool					-	CM
Coal			0		-	CM
Coal			0		-	CM
Coal			0		0	CM
Coal			0		0	CM
Coal			0		0	CM
Coal			0		0	CM
Coal			0		0	CM
Coal			0		0	CM
Coal			0		0	CM
Coal			0		0	CM
Coal			U		U	CM
Cuai			U		U	CIVII
Cour			V		O .	Ciri
			•			
-			v			C.
2) Daw Matarial C	anavimentian (Canavimenti					
		on of raw				
		<u> </u>				
		During	the Previous	Durina	the current	UOM
Name of Raw Mat	erials					UOM
		financia	ii Year	Financ	iai year	
Evnlocivo		28/125			-	Ka/Annu
Explosive		284125		197075	5	Kg/Annu
LAPIOSIVE		204123		197075	J	Kg/Aiiiu
Diesel		88857		91428		Ltr/A
Diesei		00037		91420		LU/A
0" 10		5660		7.405		
Oil and Grease		5662		7495		Ltr/A
on and orease		3002		, 133		20,77
	_					
	_					
4) Fuel Consumnt	ion					
4) Fuel Consumpt	ion					
	<u>ion</u>	Consent quantity	Ac	tual Ouant	itv	иом
4) Fuel Consumpt Fuel Name	<u>ion</u>	Consent quantity		tual Quant	ity	иом
Fuel Name	<u>ion</u>			=	-	
	<u>ion</u>	Consent quantity 0		tual Quant 428	-	UOM Ltr/A
Fuel Name	<u>ion</u>			=	-	
Fuel Name	ion			=	-	
Fuel Name Diesel	<u>ion</u>			=	-	
Fuel Name Diesel	<u>ion</u>			=	-	
Fuel Name	ion			=	-	
Fuel Name Diesel	<u>ion</u>			=	-	
Fuel Name Diesel	<u>ion</u>			=	-	
Fuel Name Diesel	ion			=	-	
Fuel Name Diesel	<u>ion</u>			=	-	
Fuel Name Diesel Part-C		0	914	428		
Fuel Name Diesel Part-C	ion ned to environment/unit	0	914	428		
Fuel Name Diesel Part-C Pollution discharg		0	914	428		
Fuel Name Diesel Part-C		0	914	428		
Fuel Name Diesel Part-C Pollution discharg [A] Water	ed to environment/unit	of output (Parameter a	914 s specified in the	428 e consent i	ssued)	
Fuel Name Diesel Part-C Pollution discharg	ed to environment/unit Quantity of	of output (Parameter at	914 s specified in the rants Per	e consent i	ssued) variation	
Fuel Name Diesel Part-C Pollution discharg [A] Water	ed to environment/unit Quantity of	of output (Parameter at	914 s specified in the rants Per	e consent i	ssued) variation	
Fuel Name Diesel Part-C Pollution discharg [A] Water	ed to environment/unit Quantity of Pollutants	of output (Parameter at Concentration of Pollut discharged(Mg/Lit) Exc	914 s specified in the rants Persept from	e consent i	ssued) variation	
Fuel Name Diesel Part-C Pollution discharg [A] Water	ed to environment/unit Quantity of Pollutants	of output (Parameter at	914 s specified in the rants Persept from	e consent i	ssued) variation	
Fuel Name Diesel Part-C Pollution discharg [A] Water	ed to environment/unit Quantity of Pollutants discharged (kL/day)	of output (Parameter a Concentration of Pollut discharged(Mg/Lit) Exc PH,Temp,Colour	s specified in the ants Per ept from star	e consent i centage of n prescribe ndards with	ssued) variation ed n reasons	Ltr/A
Fuel Name Diesel Part-C Pollution discharg [A] Water	ed to environment/unit Quantity of Pollutants discharged (kL/day)	of output (Parameter at Concentration of Pollut discharged(Mg/Lit) Exc	s specified in the ants Per ept from star	e consent i	ssued) variation ed n reasons	
Fuel Name Diesel Part-C Pollution discharg [A] Water Pollutants Detail	ed to environment/unit Quantity of Pollutants discharged (kL/day) Quantity	of output (Parameter as Concentration of Pollut discharged(Mg/Lit) Exc PH,Temp,Colour Concentration	s specified in the rants Persept from star %va	e consent i centage of n prescribe ndards with	ssued) variation ed n reasons Stand	Ltr/A
Fuel Name Diesel Part-C Pollution discharg [A] Water	ed to environment/unit Quantity of Pollutants discharged (kL/day) Quantity	of output (Parameter a Concentration of Pollut discharged(Mg/Lit) Exc PH,Temp,Colour	s specified in the ants Per ept from star	e consent i centage of n prescribe ndards with	ssued) variation ed n reasons	Ltr/A
Fuel Name Diesel Part-C Pollution discharg [A] Water Pollutants Detail	ed to environment/unit Quantity of Pollutants discharged (kL/day)	of output (Parameter as Concentration of Pollut discharged(Mg/Lit) Exc PH,Temp,Colour Concentration	s specified in the rants Persept from star %va	e consent i centage of n prescribe ndards with	ssued) variation ed n reasons Stand	Ltr/A
Fuel Name Diesel Part-C Pollution discharg [A] Water Pollutants Detail	ed to environment/unit Quantity of Pollutants discharged (kL/day) Quantity	of output (Parameter as Concentration of Pollut discharged(Mg/Lit) Exc PH,Temp,Colour Concentration	s specified in the rants Persept from star %va	e consent i centage of n prescribe ndards with	ssued) variation ed n reasons Stand	Ltr/A
Fuel Name Diesel Part-C Pollution discharg [A] Water Pollutants Detail	ed to environment/unit Quantity of Pollutants discharged (kL/day) Quantity	of output (Parameter as Concentration of Pollut discharged(Mg/Lit) Exc PH,Temp,Colour Concentration	s specified in the rants Persept from star %va	e consent i centage of n prescribe ndards with	ssued) variation ed n reasons Stand	Ltr/A
Fuel Name Diesel Part-C Pollution discharg [A] Water Pollutants Detail	ed to environment/unit Quantity of Pollutants discharged (kL/day) Quantity	of output (Parameter as Concentration of Pollut discharged(Mg/Lit) Exc PH,Temp,Colour Concentration	s specified in the rants Persept from star %va	e consent i centage of n prescribe ndards with	ssued) variation ed n reasons Stand	Ltr/A
Fuel Name Diesel Part-C Pollution discharg [A] Water Pollutants Detail Mine water	ed to environment/unit Quantity of Pollutants discharged (kL/day) Quantity	of output (Parameter as Concentration of Pollut discharged(Mg/Lit) Exc PH,Temp,Colour Concentration	s specified in the rants Persept from star %va	e consent i centage of n prescribe ndards with	ssued) variation ed n reasons Stand	Ltr/A
Fuel Name Diesel Part-C Pollution discharg [A] Water Pollutants Detail	ed to environment/unit Quantity of Pollutants discharged (kL/day) Quantity	of output (Parameter as Concentration of Pollut discharged(Mg/Lit) Exc PH,Temp,Colour Concentration	s specified in the rants Persept from star %va	e consent i centage of n prescribe ndards with	ssued) variation ed n reasons Stand	Ltr/A
Fuel Name Diesel Part-C Pollution discharg [A] Water Pollutants Detail Mine water [B] Air (Stack)	Quantity of Pollutants discharged (kL/day) Quantity 11218	of output (Parameter a. Concentration of Pollut discharged(Mg/Lit) Exce PH,Temp,Colour Concentration	s specified in the rants Pero ept from stan %va 0	e consent i centage of n prescribe ndards with ariation	ssued) variation ed n reasons Stand	Ltr/A
Fuel Name Diesel Part-C Pollution discharg [A] Water Pollutants Detail Mine water	Quantity of Pollutants discharged (kL/day) Quantity 11218	of output (Parameter a Concentration of Pollut discharged(Mg/Lit) Excentration Concentration Concentration	s specified in the rants Persept from star %va 0	e consent i centage of n prescribe ndards with ariation	ssued) variation ed n reasons Stand	Ltr/A
Fuel Name Diesel Part-C Pollution discharg [A] Water Pollutants Detail Mine water [B] Air (Stack)	Quantity of Pollutants discharged (kL/day) Quantity 11218	of output (Parameter a Concentration of Pollut discharged(Mg/Lit) Excentration Concentration Concentration	s specified in the rants Persept from star %va 0	e consent i centage of n prescribe ndards with ariation	ssued) variation ed n reasons Stand	Ltr/A
Fuel Name Diesel Part-C Pollution discharg [A] Water Pollutants Detail Mine water [B] Air (Stack)	Quantity of Pollutants discharged (kL/day) Quantity 11218	of output (Parameter a Concentration of Pollut discharged(Mg/Lit) Excentration Concentration Concentration of Poldischarged(Mg/NM3)	s specified in the rants Persept from star %va 0	e consent i centage of n prescribe ndards with ariation rcentage of m prescrib	ssued) variation ed n reasons Stand	Ltr/A
Fuel Name Diesel Part-C Pollution discharg [A] Water Pollutants Detail Mine water [B] Air (Stack)	Quantity of Pollutants discharged (kL/day) Quantity 11218	of output (Parameter a Concentration of Pollut discharged(Mg/Lit) Excentration Concentration Concentration of Poldischarged(Mg/NM3)	s specified in the rants Persept from star %va 0	e consent i centage of n prescribe ndards with ariation	ssued) variation ed n reasons Stand	Ltr/A
Fuel Name Diesel Part-C Pollution discharg [A] Water Pollutants Detail Mine water [B] Air (Stack)	Quantity of Pollutants discharged (kL/day) Quantity 11218 Quantity of Pollutants discharged (kL/day)	of output (Parameter as Concentration of Pollut discharged(Mg/Lit) Exce PH,Temp,Colour Concentration 0 Concentration of Pol discharged(Mg/NM3	s specified in the sants Persept from star %va 0	e consent i centage of m prescribe ndards with ariation rcentage o m prescrib	ssued) variation ed n reasons Standa 0 f variation ed h reasons	ard Reaso
Fuel Name Diesel Part-C Pollution discharg [A] Water Pollutants Detail Mine water [B] Air (Stack)	Quantity of Pollutants discharged (kL/day) Quantity 11218	of output (Parameter a Concentration of Pollut discharged(Mg/Lit) Excentration Concentration Concentration of Poldischarged(Mg/NM3)	s specified in the sants Persept from star %va 0	e consent i centage of n prescribe ndards with ariation rcentage of m prescrib	ssued) variation ed n reasons Standa 0 f variation ed h reasons	Ltr/A
Fuel Name Diesel Part-C Pollution discharg [A] Water Pollutants Detail Mine water [B] Air (Stack) Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity 11218 Quantity of Pollutants discharged (kL/day) Quantity	of output (Parameter a Concentration of Pollut discharged(Mg/Lit) Exc PH,Temp,Colour Concentration 0 Concentration of Pol discharged(Mg/NM3	s specified in the sants Persept from star %va 0	e consent i centage of m prescribe ndards with ariation rcentage o m prescrib	ssued) variation ed n reasons Standa 0 f variation ed ch reasons	ard Reaso
Fuel Name Diesel Part-C Pollution discharg [A] Water Pollutants Detail Mine water [B] Air (Stack) Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity 11218 Quantity of Pollutants discharged (kL/day)	of output (Parameter as Concentration of Pollut discharged(Mg/Lit) Exce PH,Temp,Colour Concentration 0 Concentration of Pol discharged(Mg/NM3	s specified in the sants Persept from star %va 0	e consent i centage of m prescribe ndards with ariation rcentage o m prescrib	ssued) variation ed n reasons Standa 0 f variation ed h reasons	ard Reaso
Fuel Name Diesel Part-C Pollution discharg [A] Water Pollutants Detail Mine water [B] Air (Stack) Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity 11218 Quantity of Pollutants discharged (kL/day) Quantity	of output (Parameter a Concentration of Pollut discharged(Mg/Lit) Exc PH,Temp,Colour Concentration 0 Concentration of Pol discharged(Mg/NM3	s specified in the sants Persept from star %va 0	e consent i centage of m prescribe ndards with ariation rcentage o m prescrib	ssued) variation ed n reasons Standa 0 f variation ed ch reasons	ard Reaso

HAZARDOUS WASTES

Part-D

3.1 Osca or speric on	0.007				1.0.5		114/11
5.2 Wastes or residues containi	ng oil 0			:	3		Ton/
2) From Pollution Control Fa Hazardous Waste Type	ocilities		Total Du	rina Pr	evious	Total During Current	UOM
mazardous waste rype			Financia		evious	Financial year	001
34.2 Sludge from treatment of y / disposal of barrels / containers		of cleaning	0			8	Ton/
Part-E							
SOLID WASTES							
1) From Process Non Hazardous Waste Type	Total During Proviou	s Einancia	Lyoar	Total	During (Current Financial year	иом
Over burden	885082	S FIIIAIICIA	i yeai	76311	_	current Financiai year	M3/Anun
2) From Pollution Control Fa		Dravious F	'in a m a in l		Tatal D	union Commant Financial vo	401
Non Hazardous Waste Type NIL	Total During 0	Previous F	inanciai y	ear	Otal Di	uring Current Financial yea	ar UON CMD
IVIL	O				O		CMD
3) Quantity Recycled or Re-	utilized within the						
Waste Type		Total Dui	ring Previo	us Fina	ancial 1	Total During Current Finan	icial UON
••		year	_			year -	
0		0			()	CMD
Part-F							
Please specify the character indicate disposal practice ac					f hazardo	ous as well as solid wastes	and .
1) Hazardous Waste							
Type of Hazardous Waste G	enerated	Qty of Ha Waste	azardous	иом	Concen	tration of Hazardous Wast	e
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 containi	ng oil	3		Ton/Y	3.0 T/A s	stock is stored in RCC tank	
34.2 Sludge from treatment of of cleaning / disposal of barrels		8		KL/A	17.57 T// Butibori	A disposed off to CHWTSDF si	te at
2) Solid Waste							
Type of Solid Waste General	-	Waste	UOM M2/Anuma			n of Solid Waste	d alta
Over Burden	7631134		M3/Anum	OB at	ımpea is j	properly stacked at earmarke	a site
Part-G							
Impact of the pollution Cont	rol measures taken o	n conserva	ntion of na	tural re	esources	and consequently on the	cost of
production.							
					_		

Reduction in Reduction in

Power

(KWH)

Consumption

Raw

(Kg)

Material

Capital

Lacs)

Investment(in

Reduction in

Lacs)

Maintenance(in

Total During Previous Financial year

0.867

Total During Current Financial year

1.645

UOM

KL/A

1) From Process
Hazardous Waste Type

5.1 Used or spent oil

Description

Reduction in

Consumption

Water

(M3/day)

Reduction in

Fuel & Solvent

Consumption

(KL/day)

Conservation of 0 natural resources

0.007 168

1686630

8083328

13147.21181

Λ

Part-H

NIL

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

NIL

(Lacks) 0

[B] Investment Proposed for next Year

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

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:



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**

Address

Office of Project Officer, Penganga OC Project

Plot no

Capital Investment (In lakhs)

32998.69689

Pincode

442917

Region

Telephone Number

6301007414

SRO-Chandrapur

Last Environmental statement submitted online

yes

Consent Valid Upto

31.03.2022

Code) & Secondary (STC Code)

Application UAN number

MPCB-CONSENT-0000063749

Taluka

Korpana Virur- Gadegaon

Scale City

CHANDRAPUR

Person Name Designation

Mr. R V Subba Reddy Sub Area Manager, Penganga Project

Village

Fax Number

waniarea.environdept@gmail.com

Industry Category Industry Type

Red R35 Mining and ore beneficiation

Consent Number **Consent Issue Date**

BO/CAC CELL/UAN No. 63699 and 63749/

31/03/2022

LSI

CAC- 1902001161 dtd. 25/02/2019 valid till

Establishment Year Date of last environment statement

25.02.2019

submitted

2019 Sep 4 2020 12:00:00:000AM

Product Information

Industry Category Primary (STC

Product Name Consent Quantity Actual Quantity UOM COAL 6.3 5.253071 MT/A

By-product Information

By Product Name **Consent Quantity Actual Quantity UOM OVER BURDEN** 14714626 NA

	nption in m3/day			
Water Consumpt Process	tion for	Consent Quantity in n	m3/day Actual Quanti	ty in m3/day
Cooling		•	-	
Domestic		-	-	
		40	40	
All others		1430	1430	
Total		1470	1470	
	ration in CMD / MLD			
Particulars Trade Effluent		Consent Quai 1430	ntity Actual Quantity 1430	, UOM CMD
Domestic				2.12
Domestic		28	10	CMD
	Process Water Consum er unit of product)	ption (cubic meter of		
Name of Product			ng the Previous During the cial Year Financial y	
Coal		-	-	CMD
2) Paw Material	Consumption (Consum	ation of raw		
material per unit	t of product)			
Name of Raw Ma Explosive	terials	During the Previo financial Year 5423351	ous During the current Financial year 4879864	t UOM Kg/Annum
•				_
Diesel		2747150	3085379	Ltr/A
Oil and Grease		145411	150024	Ltr/A
4) Fuel Consump	otion			
Fuel Name Diesel		Consent quantity NIL	Actual Quantity 3085379	UOM Ltr/A
Diesei		IVIL	3003373	LU/A
Part-C				
	rged to environment/ur	it of output (Parameter as specif	ied 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	
	Quantity	Concentration	%variation	Standard Reason
Mine Water	1430	Water analysis report attached at pa	rt 1 -	-
[B] Air (Stack)				
Pollutants Detail	l Quantity of Pollutants discharged (kL/da	Concentration of Pollutants discharged(Mg/NM3) y)	Percentage of variation from prescribed standards with reasons	
	Quantity	Concentration	%variation	Standard Reason
No Air Stack Monitoring	-	-	-	

Part-D

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type

Total During Previous Financial year

Total During Current Financial year

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

UOM

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 CMD

3) Quantity Recycled or Re-utilized within the unit

Waste Type Total During Previous Financial Total During Current Financial UOM

year year

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 Reduction in Fuel Reduction in Reduction in Capital Reduction in Water & Solvent Raw Material Power Investment(in Maintenance(in

Consumption Consumption (Kg) Consumption Lacs) Lacs)
(M3/day) (KL/day) (KWH)

Conservation of 0 Diesel increased by Explosives Increase Natural 0.93 KL/day decreased by Resources 543487 Kg/A

Increased by Inc 1633192 KWH/Yr 40

Increased by 4059.7 Lakhs

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)
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] Investment Proposed for next Year

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



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

Coameius Limite

Address

Post: Bellora, Tah: Wani, Dist:

Yavatmal, (MS)

Plot no

-

Capital Investment (In lakhs)

3944.340830

Pincode 445304

Telephone Number

7774074645

Region

SRO-Chandrapur

Last Environmental statement

submitted online

yes

Consent Valid Upto

31.03.2021

Industry Category Primary (STC Code) & Secondary (STC Code) Application UAN number

MPCB-CONSENT-0000090513

Taluka

Wani

Scale

L.S.I

Person Name

Shri. Atul Singh

o.....

Fax Number

07239232338

Industry Category

Red

Consent Number

Format CAC UAN No.

0000090513/CO-2005000269 dtd. 08/05/2020 valid till 31.03.2021

Establishment Year

2019

Village

Bellora

Citv

Yavatmal

Designation

Sub Area Manager, Niljai Sub Area

Email

waniarea.environdept@gmail.com

Industry Type

R35 Mining and ore beneficiation

Consent Issue Date

08/05/2020

Date of last environment statement

submitted

Sep 4 2020 12:00:00:000AM

Product Information

Product NameConsent QuantityActual QuantityUOMCOAL4.52.48MT/A

By-product Information

By Product NameConsent QuantityActual QuantityUOMOver Burden3977444426480997

1) Water Concum	ention in m2/day						
1) Water Consumption Water Consumption Process		Consent Quantity 0.00	y in m3/day	, Ac	t ual Quantity 00	in m3/da	у
Cooling		0.00		0.0	00		
Domestic		330.00		33	0.00		
All others		2786.00		27	86.00		
Total		3116.00		31	16.00		
	ration in CMD / MLD						
Particulars Trade effluent		Conse 5764	ent Quantit	-	ctual Quantity 64	7	UOM CMD
Domestic Effluent		264		26	4		CMD
	Process Water Consum	ption (cubic meter of					
Name of Products	er unit of product) s (Production)		During th	e Previous Year	During the Financial y		иом
Coal			0	. cui	0	Cui	CMD
	Consumption (Consump	otion of raw					
material per unit Name of Raw Mar		During the financial)			g the current icial year	;	иом
Explosive		9571773	Cai	76089	-		Kg/Annum
Diesel		5304084		40945	519		Ltr/A
Oil and Grease		247763		18009)1		Ltr/A
4) Fuel Consump	tion						
Fuel Name		Consent quantity		Actual Quan	tity	_	OM (A
Diesel		0		4094519		Lt	r/A
Part-C							
	ged to environment/un	it of output (Parameter as	specified i	in the consen	t issued)		
[A] Water Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Polluta discharged(Mg/Lit) Exce PH,Temp,Colour Concentration		Percentage of from prescristandards www.wariation	bed	Standar	d Reason
Mine water	8550	0		-		-	-
[B] Air (Stack)				_	<u> </u>		
Pollutants Detail	Quantity of Pollutants discharged (kL/d	Concentration of Pol discharged(Mg/NM3) ay)		from presci	of variation ribed with reasons		
	Quantity	Concentration		%variation		Standar	d Reason
NO AIR STACK MONITORING	0	0		-			-

Part-D

HAZARDOUS WASTES						
1) From Process Hazardous Waste Type	Total During	g Previous Fin	ancial vear	Total D	Ouring Current Financial year	иом
5.1 Used or spent oil	32.826	g Frevious i ili	anciai yeai	29.15	dining current i mancial year	KL/A
5.2 Wastes or residues containing oi	52.525			6		Ton/Y
5.2 Wastes of Tesidues Containing of	1 10			0		1011/1
2) From Pollution Control Faciliti	ies					
Hazardous Waste Type			Total Duri Financial y	ng Previous ⁄ear	Total During Current Financial year	UOM
34.2 Sludge from treatment of waste / disposal of barrels / containers	e water arising o	out of cleaning	30		25	Ton/Y
Part-E						
SOLID WASTES						
1) From Process			_			
Non Hazardous Waste Type Tot	_	∕ious Financia	l year	_	g Current Financial year	ИОМ
Over burden 208	99839			26480997		M3/Anum
2) From Pollution Control Faciliti	ies					
Non Hazardous Waste Type	Total Duri	ing Previous F	inancial ye	ar Total I	During Current Financial year	UOM
NIL	0			0		CMD
3) Quantity Recycled or Re-utiliz	ed within the					
unit						
Waste Type		Total Dui year	ring Previoເ	is Financial	Total During Current Financia year	al UOM
0		0			0	CMD
Part-F						
Please specify the characteristic indicate disposal practice adopte					dous as well as solid wastes a	nd
1) Hazardous Waste						
Type of Hazardous Waste Genera	ated	Qty of Haza Waste	rdous UOM	1 Concentra	tion of Hazardous Waste	
5.1 Used or spent oil		29.15	KL/A	31.50 KL wa Petroleum	as sent to coprocessor M/s. Lucky	
5.2 Wastes or residues containing oi	I	6	Ton/	Y 8.25 MTA To Butibori	onnes stock was disposed off to C	CHWTSDF,
34.2 Sludge from treatment of waste		25	Ton/	Y 33.91 Tonn	es stock was disposed off to CHW	TSDF,

2) Solid Waste

out of cleaning / disposal of barrels / containers

Type of Solid Waste GeneratedQty of Solid WasteUOMConcentration of Solid WasteOver Burden26480997M3/Anum-

Butibori

Part-G

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	0	3.313	1962826	1370579	3944340830	0

Part-H

resource

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)
Installation of Mist sprinklers at CHP	Dust Suppression	18
Installation of water meter	Water Quantity Monitoring	2

[B] Investment Proposed for next Year

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



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

Address

Office of the Sub Area Manager, Ghonsa-Kumbharkhani, Po.- Rasa, Tal.- Wani, Distt. -

Last Environmental statement submitted

Industry Category Primary (STC Code) &

Yavatmal, Maharashtra

Plot no

25/1,2,3

Capital Investment (In lakhs)

6340.37

Pincode

445304

Telephone Number

8380092918

Region

SRO-Chandrapur

online

yes

Consent Valid Upto

2021-03-31

Product Information

Secondary (STC Code)

Product Name

Coal

Application UAN number

Taluka

Wani

Scale L.S.I

Person Name

Dr Satvendrakumar

Fax Number

07239241357

Industry Category

Red

Consent Number

Format1.0/CC/UAN

No.0000087637/CR2011001165

Establishment Year

2008

Village

Wani North

City

Yavatmal

Designation

Sub Area Manager, Ghonsa Sub Area

Email

samghonsa@gmail.com

Industry Type

R35 Mining and ore beneficiation

Consent Issue Date

2020-11-24

Date of last environment statement submitted

Sep 29 2020 12:00:00:000AM

0.60

Actual Quantity

0.507

UOM

MT/A

By-product Information

By Product Name

NA

0

Consent Quantity

Consent Quantity

Actual Quantity

UOM

0

MT/A

Water Consumpti Process	ption in m3/day ion for	Consent Quai 652.00	ntity in m3/da	у	Actual Quantity	y in m3/da	y
Cooling		0.00			0.00		
Domestic		18.00			18.00		
All others		50.00			0.00		
Total		720.00			670.00		
2) Effluent Gener	ation in CMD / MLD		Consont C)amtitu	A struct Ove	mbib	иом
	t (including mine dischar	ge)	Consent Q 4363	ruantity	Actual Qua 3711	псту	CMD
	Process Water Consum	ption (cubic meter of					
process water pe Name of Products			Durina the	e Previous	During the	current	UOM
Mining	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		financial \		Financial y		CMD
material per unit Name of Raw Material Explosive		D fi	During the Previnancial Year		During the curr Financial year 2.2	ent	UOM Kg/Annun
4) Fuel Consumpt	tion						
Fuel Name Diesel		Consent quantit	ty	Actual Q 3037.8	uantity	_	OM 'A
Part-C		0		3037.6		KL	./A
Pollution discharg	ged to environment/ur	it of output (Paramete	r as specified	in the cons	sent issued)		
Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity 0	Concentration of Polludischarged(Mg/Lit) Expending PH, Temp, Colour Concentration		from pres	with reasons	Standar	d Reason
[B] Air (Stack)							
Pollutants Detail	Pollutants discharged (kL/day)	Concentration of Pol discharged(Mg/NM3)		from prese standards	with reasons		
				0/		C+l	d Danca
_	Quantity 0	Concentration 0		%variatio	n	Standari -	d Reason -

HAZARDOUS WASTES

1) From Process

Hazardous Waste TypeTotal Du5.1 Used or spent oil0

Total During Previous Financial year

Total During Current Financial year 23.5

UOM Ton/Y

2) From	Pollution	Control	Facilities
-	, , , , , , , ,	i Ollucioli	COLLEGE	i acilicics

Hazardous Waste TypeTotal During Previous Financial yearTotal During Current Financial yearUOM00Ton/Y

Part-E

SOLID WASTES

1) From Process
Non Hazardous Waste Type Total During Previous Financial year Total During Current Financial year 0 Ton/Y

2) From Pollution Control Facilities

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

3) Quantity Recycled or Re-utilized within the

Waste Type
Total During Previous Financial year

Total During Current Financial UOM year

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 GeneratedQty of Hazardous WasteUOMConcentration of Hazardous Waste5.1 Used or spent oil23.5Ton/Y-5.2 Wastes or residues containing oil4Ton/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	0	0.094	0	0	0	0

Part-H

measures taken

Detail of measures for Environmental Protection

Making concrete hard stand for water tanker filling point

Environmental Protection Measures

Making concrete hard stand for water tanker filling point

Capital Investment (Lacks)

6.7

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection Environmental Protection Measures

Capital Investment (Lacks)

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

raiticu

Name & Designation

Sub Area Manager, Ghonsa Sub Area

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000036500

Submitted On:



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

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

Capital Investment (In lakhs)

10243.8

Pincode

445304

Telephone Number

9607922288

Region

SRO-Chandrapur

Last Environmental statement submitted online

Consent Valid Upto

2023-03-31

Industry Category Primary (STC Code) &

yes

Application UAN number

Taluka

Wani

Scale L.S.I.

Person Name

B V Bhaskar Reddy

Fax Number

07239241357

Industry Category

Red

Consent Number

Format1.0/CC/UAN

No.0000103043/CO2107000218

Establishment Year

1998

Village

Ukni City

WANI

Designation

Sub Area Manager, Ukni-Junad Sub

Email

wclsamujsa@gmail.com

Industry Type

R35 Mining and ore beneficiation

Consent Issue Date

2021-07-05

Date of last environment statement submitted

Sep 25 2020 12:00:00:000AM

Secondary (STC Code)

Product Information

Product Name Consent Quantity Actual Quantity UOM 0.33 Coal 0.6 MT/A

By-product Information

By Product Name **Consent Quantity Actual Quantity UOM** 0 0 MT/A

Part-D								
-	0	0		-			-	-
	discharged (kL/day) Quantity	Concentration		standard %variatio	ls with		Standard	l Reasoi
Pollutants Detail	Quantity of Pollutants	Concentration of Podischarged (Mg/NM		Percenta from pre	scribe	d		
[B] Air (Stack)								
-	0	0		-			-	-
	Quantity	Concentration		%variati	on		Standard	l Reaso
Detail Pollutants discharged (kL/day)		discharged(Mg/Lit) Except PH,Temp,Colour		from prescribed standards with reasons				
Pollution dischar [A] Water Pollutants	ged to environment/ur Quantity of	it of output (Paramet	-			issued) variation		
Part-C								
High Speed Diesel		0		719.182		KL/A		
4) Fuel Consump Fuel Name	tion	Consent qu	uantity	Actua	al Qua	ntity	U	ОМ
Explosives (Kg/Ton	ne)	financial Year 2.98					Kg/Annun	
3) Raw Material (per unit of produ Name of Raw Ma		otion of raw material	During the Pr	revious	Dur	ing the curi	rent	иом
Coal (Cubic Meter/			financial Year 0.302		Financial year 0.45			CMD
	er unit of product)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		the Previo	us	During th	e current	UON
2) Product Wise	Process Water Consum	ntion (cubic meter of	;					
TRADE EFFLUENT (Mine Discharge)		Consent Qua 2302	пстсу		ctual Quant 800	ity	CMD
2) Effluent Gener Particulars	ration in CMD / MLD		Consont Ovo	.mtit.	Α.	stual Ouant	·i4. ,	иом
Total		414.00		414.00				
All others		0.00			0.00	l		
Domestic		0.00			0.00			
Cooling								
1) Water Consumption in m3/day Water Consumption for Process		Consent Quantity in m3/day 400.00			Actual Quantity in m3/day 400.00			

HAZARD	OUS	WASTES
	_	

1) From Process

Hazardous Waste Type Total During Previous Financial year Total During Current Financial year **UOM** 5.1 Used or spent oil 4.83 4.51 KL/A

2) From Pollution Hazardous Was		Total During Previous	Financial vear	Total Duri	ing Current Financia	l year	иом
0	71	0	, , , ,	0		,	Ton/Y
Part-E							
SOLID WASTES							
1) From Process Non Hazardous	_	Total During Previous 0	s Financial year	Total Du	ring Current Financi	ial year	<i>UON</i> Ton/
2) From Pollution Non Hazardous			Previous Financial	year Total	During Current Find	ancial year	UOM
-		0		0			Ton/
3) Quantity Rec	cycled or Re-	utilized within the					
Waste Type			Total During Prev year	ious Financial	Total During Curr	ent Financial	I UON
0			0		0		Ton/
Part-F							
		ristics(in terms of conc dopted for both these (rdous as well as sol	id wastes an	nd
1) Hazardous W	/aste						
		enerated Qty of Hazai			on of Hazardous Wa	ste	
5.1 Used or spent	t oil	4.83	KL/A	-			
2) Solid Waste							
Type of Solid Waste Generated -		ted Qty 0	Qty of Solid Waste 0		UOM Concentration of Solid Waste Ton/Y -		
Part-G							
Impact of the p	ollution Cont	trol measures taken on	conservation of n	atural resourc	es and consequenti	y on the cos	t of
Description	Reduction water Consumption (M3/day)	Fuel & Solvent	Material	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction Maintenan Lacs)	
Impact of the pollution control measures taken	0	0.019		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

tank etc

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection Environmental Protection Measures

Capital Investment (Lacks)

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:



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

Sub Area Manager, Kolar pimpri-Pimpalgaon Sub

23-09-2021

PART A

Company Information

Company Name

Western Coalfields Limited, Kolar Pimpri Open Cast Mine

Address

Office of the Sub Area Manager, Kolar PimpriPimpalgaon Sub Area, Po.- Ukni, Tal.- Wani,

Distt. - Yavatmal, Maharashtra

Plot no

79

Capital Investment (In lakhs)

28409.3

Pincode

445304

Telephone Number

7447434791

Region

SRO-Chandrapur

Last Environmental statement submitted

online ves

Consent Valid Upto

2021-03-31

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

Application UAN number

Taluka

Wani

Scale L.S.I

Person Name

S B Prasad

Fax Number

07239241357

Industry Category

Red

1993

Consent Number

Consent Issue Date

Village

City

Wani

Area

Email

Designation

Industry Type

MPCB-CONSENT-0000040280 2020-07-22

Establishment Year

Date of last environment statement submitted

Sep 29 2020 12:00:00:000AM

wclsamkolarpimpri@gmail.com

R35 Mining and ore beneficiation

Product Information

Product Name Consent Quantity Actual Quantity UOM COAL 1.5 1.13 MT/A

By-product Information

Consent Quantity UOM By Product Name **Actual Quantity** MT/A

Part-B (Water & Raw Material Consumption)

Water Consumpti	ption in m3/day	Consent Quantit	ty in m3/day	Actual Quantity	in m2/da	
Process Process	on for	590.00	.y III III3/Uay	590.00	III III3/UA	,
Cooling		0.00		0.00		
Domestic		130.00		18.00		
All others		50.00		50.00		
Total		770.00		658.00		
		770.00		050.00		
2) Effluent Genera	ation in CMD / MLD					
Particulars		Cons	ent Quantity	Actual Quantity	,	UOM
Mine discharge		4148		3718		CMD
	rocess Water Consump	otion (cubic meter of				
process water per Name of Products			During the Previou	s During the	current	UOM
	,		financial Year	Financial ye		
mining			0.3	0.21		CMD
	onsumption (Consump	tion of raw				
material per unit						
Name of Raw Mat	erials		ng the Previous ncial Year	During the curre Financial year	ent	UOM
Explosives		1.57		1.88		Kg/Annum
4) Fuel Consumpt	ion					
Fuel Name		Consent quantity		Quantity	UC	
Diesel		0	82.95		KL,	'A
Part-C						
	ged to environment/un	it of output (Parameter a	s specified in the co	nsent issued)		
[A] Water Pollutants Detail	Overtity of	Concentration of Pol	lutanta Daves	atawa af wawiatian		
Ponutants Detail	Quantity of Pollutants	discharged(Mg/Lit) E		ntage of variation prescribed		
	discharged	PH,Temp,Colour		ards with reasons		
	(kL/day) Quantity	Concentration	%varia	ation	Standard	l Passar
Water monitoring	0	0	70 Va 116	acion	-	- Keasoi
reports have been attached	v	v				
[B] Air (Stack)	Ouantity of	Composition of Dollar	auta Barrarita			
Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollut discharged(Mg/NM3)	from pre	age of variation escribed ds with reasons		
	Quantity	Concentration	%variati	on	Standard	l Reason

Part-D

5.1 Used or spent		ar burnig i revi	ous i man	ciai yeai	.5	ig current i mancia	r yeur	KL/A
2) From Pollutio								
Hazardous Was	te Type	Total During P	revious Fi	nancial year		ng Current Financia	al year	UOM
0		0			0			Ton/Y
Part-E								
SOLID WASTES								
1) From Process Non Hazardous	_	Total During P	Provinus F	inancial vear	Total Dur	ring Current Financ	ial vear	иом
-	Waste Type	0	revious r	maneiai year	0	my current r mane.	iai yeai	Ton/\
2) From Pollution	on Control Fa	acilities						
Non Hazardous	Waste Type	Total D	Ouring Pre	vious Financia	l year Total	During Current Fin	ancial year	UOM
-		0			0			Ton/Y
3) Quantity Rec	ycled or Re-	utilized within t	he					
unit Waste Type			To	stal During Pro	vious Financial	Total During Curr	ont Einancia	I UOM
waste Type				ear	vious Filialiciai	year	ent Financia	1 0011
0			0			0		Ton/Y
Part-F								
Please specify t						rdous as well as sol	lid wastes an	nd
1) Hazardous W	/aste							
			of Hazardo			on of Hazardous Wa	iste	
5.1 Used or spent	t oil	.5		KL/ <i>F</i>	4 -			
2) Solid Waste								
Type of Solid W	'aste Genera	ted	Qty o t	f Solid Waste	UOM Ton/Y	Concentration of S	Solid Waste	
Part-G								
Impact of the population.	ollution Cont	trol measures ta	aken on co	onservation of	natural resourc	es and consequent	ly on the cos	t of
Description	Reduction Water Consumpti (M3/day)	Fuel & S	Solvent ption	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction Maintenan Lacs)	
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

Total During Current Financial year

UOM

Hazardous Waste Type Total During Previous Financial year

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)

Installation of CAAQMS Installation of CAAQMS

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:



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

Address

Office of the Sub Area Manager, Ghonsa-Kumbharkhani, Po.- Rasa, Tal.- Wani, Distt. -

Last Environmental statement submitted

Yavatmal, Maharashtra

Plot no

25/1,2,3

Capital Investment (In lakhs)

6340.37

Pincode

445304

Telephone Number

8380092918

Region

SRO-Chandrapur

online

yes

Consent Valid Upto

2021-03-31

Industry Category Primary (STC Code) &

Application UAN number

Taluka

Wani

Scale L.S.I

Person Name

Dr Satvendrakumar

Fax Number 07239241357

Industry Category

Red

Consent Number

Format1.0/CC/UAN

No.0000087637/CR2011001165

Establishment Year

2008

Village

Wani North

City

Yavatmal

Designation

Sub Area Manager, Ghonsa Sub Area

Email

samghonsa@gmail.com

Industry Type

R35 Mining and ore beneficiation

Consent Issue Date

2020-11-24

Date of last environment statement submitted

Sep 29 2020 12:00:00:000AM

Product Information

Secondary (STC Code)

Product Name Consent Quantity Actual Quantity UOM 0.60 0.507 Coal MT/A

By-product Information

By Product Name **Consent Quantity Actual Quantity UOM** NA 0 0 MT/A

Part-B (Water & Raw Material Consumption)

Water Consumpti Process	ption in m3/day ion for	Consent Quai 652.00	ntity in m3/da	у	Actual Quantity	y in m3/da	y
Cooling		0.00			0.00		
Domestic		18.00			18.00		
All others		50.00			0.00		
Total		720.00			670.00		
2) Effluent Gener	ation in CMD / MLD		Consont C)amtitu	A stual Oua	m titu	иом
	t (including mine dischar	ge)	Consent Q 4363	ruantity	Actual Qua 3711	псту	CMD
	Process Water Consum	ption (cubic meter of					
process water pe Name of Products			Durina the	e Previous	During the	current	UOM
Mining	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		financial \		Financial y		CMD
material per unit Name of Raw Material Explosive		D fi	During the Previnancial Year		During the curr Financial year 2.2	ent	UOM Kg/Annun
4) Fuel Consumpt	tion						
Fuel Name Diesel		Consent quantit	ty	Actual Q 3037.8	uantity	_	OM 'A
Part-C		0		3037.6		KL	./A
Pollution discharg	ged to environment/ur	it of output (Paramete	r as specified	in the cons	sent issued)		
Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity 0	Concentration of Polludischarged(Mg/Lit) Expending PH, Temp, Colour Concentration		from pres	with reasons	Standar	d Reason
[B] Air (Stack)							
Pollutants Detail	Pollutants discharged (kL/day)	Concentration of Pol discharged(Mg/NM3)		from prese standards	with reasons		
				0/		C+l	d Danca
_	Quantity 0	Concentration 0		%variatio	n	Standari -	d Reason -

HAZARDOUS WASTES

1) From Process

Hazardous Waste TypeTotal Du5.1 Used or spent oil0

Total During Previous Financial year

Total During Current Financial year 23.5

UOM Ton/Y

2	From	Poll	lution	Control	Facilities
_	, , , , , , , ,	1 011	ution	COLLEGE	I acilicies

Hazardous Waste TypeTotal During Previous Financial yearTotal During Current Financial yearUOM0Ton/Y

Part-E

SOLID WASTES

1) From Process
Non Hazardous Waste Type Total During Previous Financial year

Total During Current Financial year UOM

Ton/Y

2) From Pollution Control Facilities

Non Hazardous Waste Type
Total During Previous Financial year

Total During Current Financial year

Ton/Y

3) Quantity Recycled or Re-utilized within the

Waste Type

Total During Previous Financial Total During Current Financial UOM year year

year 0

Ton/Y

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.

0

1) Hazardous Waste

Type of Hazardous Waste GeneratedQty of Hazardous WasteUOMConcentration of Hazardous Waste5.1 Used or spent oil23.5Ton/Y-5.2 Wastes or residues containing oil4Ton/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	0	0.094	0	0	0	0

Part-H

measures taken

Detail of measures for Environmental Protection

Making concrete hard stand for water tanker filling point

Environmental Protection Measures

Making concrete hard stand for water tanker filling point

Capital Investment (Lacks)

6.7

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection Environmental Protection Measures

Capital Investment (Lacks)

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

raiticu

Name & Designation

Sub Area Manager, Ghonsa Sub Area

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000036500

Submitted On:



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

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

Capital Investment (In lakhs)

10243.8

Pincode

445304

Telephone Number

9607922288

Region

SRO-Chandrapur

Last Environmental statement submitted online

yes

Consent Valid Upto

2023-03-31

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

Application UAN number

Taluka

Wani

Scale L.S.I.

Person Name

B V Bhaskar Reddy

Fax Number

07239241357

Industry Category

Red

Consent Number Format1.0/CC/UAN

No.0000103043/CO2107000218

Establishment Year

1998

Village

Ukni

City

WANI

Designation

Sub Area Manager, Ukni-Junad Sub

Email

wclsamujsa@gmail.com

Industry Type

R35 Mining and ore beneficiation

Consent Issue Date

2021-07-05

Date of last environment statement submitted

Sep 25 2020 12:00:00:000AM

Product Information

Product Name Consent Quantity Actual Quantity UOM 0.33 Coal 0.6 MT/A

By-product Information

By Product Name **Consent Quantity Actual Quantity UOM** 0 0 MT/A

Part-B (Water & Raw Material Consumption)

Part-D								
-	0	0		-			-	-
	discharged (kL/day) Quantity	Concentration		standard %variatio	s with i		Standard	l Reasoi
Pollutants Detail	Quantity of Pollutants	Concentration of Podischarged(Mg/NM		Percenta from pre	scribed			
[B] Air (Stack)								
-	0	0		-			-	-
	Quantity	Concentration		%variati	on		Standard	l Reaso
Detail	Pollutants discharged (kL/day)	discharged(Mg/Lit) E PH,Temp,Colour		from pre standard	scribed Is with	1		
Pollution dischar [A] Water Pollutants	ged to environment/un Quantity of	nit of output (Paramet	-	in the cor				
Part-C								
High Speed Diesel		0	•	719.1			KI	_/A
4) Fuel Consump Fuel Name	tion	Consent qu	uantity	Actua	al Quan	tity	U	ОМ
					2.31			
Explosives (Kg/Tonne)			financial Year			ncial year		Kg/Annun
3) Raw Material (per unit of produ Name of Raw Ma		otion of raw material	During the Pr	evious	Durir	ng the curi	rent	иом
Coal (Cubic Meter/			financia 0.302			Financial 0.45		CMD
	er unit of product)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		the Previo	us	During the	e current	UON
2) Product Wise I	Process Water Consum	ption (cubic meter of	;					
TRADE EFFLUENT (Mine Discharge)		2302	пстсу	230		ity	CMD
2) Effluent Gener Particulars	ration in CMD / MLD		Consent Qua	m+i+	And	rual Quant	ita	иом
Total		414.00			414.0	0		
All others		0.00			0.00			
Domestic		14.00			14.00			
Cooling		0.00			0.00			
Process		400.00	ıantity in m3/da	•	400.0	_	y in m3/dag	

HAZAR	DOUS	WASTES
	_	

1) From Process

Hazardous Waste Type Total During Previous Financial year Total During Current Financial year **UOM** 4.83 5.1 Used or spent oil 4.51 KL/A

2) From Pollution Hazardous Was		Total During Previous	Financial vear	Total Duri	ng Current Financia	l year	иом
0	71	0	, , , ,	0	•	,	Ton/Y
Part-E							
SOLID WASTES							
1) From Process Non Hazardous	_	Total During Previous 0	Financial year	Total Du i 0	ring Current Financi	ial year	<i>UON</i> Ton/
2) From Pollution Non Hazardous			Previous Financial	year Total	During Current Find	ancial year	UOM
-		0		0			Ton/
3) Quantity Rec	cycled or Re-	utilized within the					
Waste Type			Total During Previ	ious Financial	Total During Curre	ent Financial	I UON
0			0		0		Ton/
Part-F							
		ristics(in terms of conc dopted for both these o			rdous as well as sol	id wastes an	nd
1) Hazardous W	/aste						
		enerated Qty of Hazai			on of Hazardous Wa	ste	
5.1 Used or spent	t oil	4.83	KL/A	-			
2) Solid Waste							
Type of Solid W	aste Genera	ted Qty 0	of Solid Waste	UOM Ton/Y	Concentration of S	Solid Waste	
Part-G							
Impact of the p	ollution Cont	trol measures taken on	conservation of n	atural resourc	es and consequentl	y on the cos	t of
Description	Reduction water Consumption (M3/day)	Fuel & Solvent	Material	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction Maintenan Lacs)	
Impact of the pollution control measures taken	0	0.019		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] Investment Proposed for next Year

Detail of measures for Environmental Protection Environmental Protection Measures

Capital Investment (Lacks)

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

. ar crear

Name & Designation

B V Bhaskar Reddy, Sub Area Manager, Ukni-Junad Sub Area

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000036051

Submitted On:



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

Sub Area Manager, Kolar pimpri-Pimpalgaon Sub

23-09-2021

PART A

Company Information

Company Name

Western Coalfields Limited, Kolar Pimpri Open Cast Mine

Address

Office of the Sub Area Manager, Kolar PimpriPimpalgaon Sub Area, Po.- Ukni, Tal.- Wani,

Distt. - Yavatmal, Maharashtra

Plot no

79

Capital Investment (In lakhs)

28409.3

Pincode

445304

Telephone Number

7447434791

Region

SRO-Chandrapur

Last Environmental statement submitted

online ves

Consent Valid Upto

2021-03-31

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

Application UAN number

Taluka

Wani

Scale L.S.I

Person Name

S B Prasad

Fax Number

07239241357

Industry Category

Red

1993

Consent Number

Consent Issue Date

Village

City

Wani

Area

Email

Designation

Industry Type

MPCB-CONSENT-0000040280 2020-07-22

Establishment Year

Date of last environment statement submitted

Sep 29 2020 12:00:00:000AM

wclsamkolarpimpri@gmail.com

R35 Mining and ore beneficiation

Product Information

Product Name Consent Quantity Actual Quantity UOM COAL 1.5 1.13 MT/A

By-product Information

Consent Quantity UOM By Product Name **Actual Quantity** MT/A

Part-B (Water & Raw Material Consumption)

Water Consumpti	ption in m3/day	Consent Quantit	ty in m3/day	Actual Quantity	in m2/da	
Process Process	on for	590.00	.y III III3/Uay	590.00	III III3/UA	,
Cooling		0.00		0.00		
Domestic		130.00		18.00		
All others		50.00		50.00		
Total		770.00		658.00		
		770.00		050.00		
2) Effluent Genera	ation in CMD / MLD					
Particulars		Cons	ent Quantity	Actual Quantity	,	UOM
Mine discharge		4148		3718		CMD
	rocess Water Consump	otion (cubic meter of				
process water per Name of Products			During the Previou	s During the	current	UOM
	,		financial Year	Financial ye		
mining			0.3	0.21		CMD
	onsumption (Consump	tion of raw				
material per unit						
Name of Raw Mat	erials		ng the Previous ncial Year	During the curre Financial year	ent	UOM
Explosives		1.57		1.88		Kg/Annum
4) Fuel Consumpt	ion					
Fuel Name		Consent quantity		Quantity	UC	
Diesel		0	82.95		KL,	'A
Part-C						
	ged to environment/un	it of output (Parameter a	s specified in the co	nsent issued)		
[A] Water Pollutants Detail	Overtity of	Concentration of Pol	lutanta Daves	atawa af wawiatian		
Ponutants Detail	Quantity of Pollutants	discharged(Mg/Lit) E		ntage of variation prescribed		
	discharged	PH,Temp,Colour		ards with reasons		
	(kL/day) Quantity	Concentration	%varia	ation	Standard	l Passar
Water monitoring	0	0	70 Va 116	acion	-	- Keasoi
reports have been attached	v	v				
[B] Air (Stack)	Ouantity of	Composition of Dollar	auta Barrarita			
Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollut discharged(Mg/NM3)	from pre	age of variation escribed ds with reasons		
	Quantity	Concentration	%variati	on	Standard	l Reason

Part-D

5.1 Used or spent		ar burnig i revi	ous i man	ciai yeai	.5	ig current i mancia	r yeur	KL/A
2) From Pollutio								
Hazardous Was	te Type	Total During P	revious Fi	nancial year		ng Current Financia	al year	UOM
0		0			0			Ton/Y
Part-E								
SOLID WASTES								
1) From Process Non Hazardous	_	Total During P	Provinus F	inancial vear	Total Dur	ring Current Financ	ial vear	иом
-	Waste Type	0	revious r	maneiai year	0	my current r mane.	iai yeai	Ton/\
2) From Pollution	on Control Fa	acilities						
Non Hazardous	Waste Type	Total D	Ouring Pre	vious Financia	l year Total	During Current Fin	ancial year	UOM
-		0			0			Ton/Y
3) Quantity Rec	ycled or Re-	utilized within t	he					
unit Waste Type			To	stal During Pro	vious Financial	Total During Curr	ont Einancia	I UOM
waste Type				ear	vious Filialiciai	year	ent Financia	1 0011
0			0			0		Ton/Y
Part-F								
Please specify t						rdous as well as sol	lid wastes an	nd
1) Hazardous W	/aste							
			of Hazardo			on of Hazardous Wa	iste	
5.1 Used or spent	t oil	.5		KL/ <i>F</i>	4 -			
2) Solid Waste								
Type of Solid W	'aste Genera	ted	Qty o t	f Solid Waste	UOM Ton/Y	Concentration of S	Solid Waste	
Part-G								
Impact of the population.	ollution Cont	trol measures ta	aken on co	onservation of	natural resourc	es and consequent	ly on the cos	t of
Description	Reduction Water Consumpti (M3/day)	Fuel & S	Solvent ption	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction Maintenan Lacs)	
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

Total During Current Financial year

UOM

Hazardous Waste Type Total During Previous Financial year

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)

Installation of CAAQMS Installation of CAAQMS

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:



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

Address

Office of the Sub Area Manager, Kolar Pimpri- Pimpalgaon Sub Area, Po. - Ukni, Tal.- Wani, Distt. - Yavatmal

Plot no 79

Capital Investment (In lakhs)

6368.1

Pincode 445304

Telephone Number 7447339316

Region

SRO-Chandrapur

Last Environmental statement submitted online

yes

Consent Valid Upto

31.08.2023

(STC Code)

Product Information

Product Name coal

By-product Information By Product Name

Part-B (Water & Raw Material Consumption)

Industry Category Primary (STC Code) & Secondary

Application UAN number

Taluka

Wani

Scale L.S.I.

> **Person Name** S B PRASAD

Fax Number

07239241357

Industry Category Red

Consent Number

Establishment Year

1993

Consent Quantity

Consent Quantity

1.5

0

Village

City

WANI

Designation

Sub Area Manager, Kolarpimpri- Pimpalgaon Sub Area

Email wnaenv@gmail.com

Industry Type

R35 Mining and ore beneficiation

Consent Issue Date MPCB-CONSENT-0000041537 Approved in CAC meeting dated 03-04-2019

Date of last environment statement

submitted

Sep 29 2020 12:00:00:000AM

Actual Quantity 0

UOM MT/A

Actual Quantity

0

UOM Ton/Y

Water Consump Process	otion for	Consent Qua 0.00	ntity in m3/c	day	Actual Quantit 0.00	y in m3/day	′
Cooling		0.00			0.00		
Domestic		750.00			0.00		
All others		0.00			0.00		
Total		750.00			0.00		
	eration in CMD / MLD						
Particulars Daily Trade Efflue	ent (Mine Discharge)		Consent Q	uantity	Actual Quan 0	-	UOM CMD
	e Process Water Consum per unit of product)	ption (cubic meter of					
Name of Produc				g the Previ		ne current	иом
Coal (Cubic Meter	Coal (Cubic Meter/Tonnes)		finan 0	cial Year	Financial 0	year	CMD
3) Raw Material per unit of prod	Consumption (Consum	ption of raw material					
Name of Raw M			During the		During the cur		JOM
Explosives (Kg/To	nnes)		financial Ye	ear	Financial year 0		(g/Annum
4) Fuel Consum Fuel Name	<u>-</u>	Consent	quantity		tual Quantity	UC	
High Speed diese Part-C	l (Litre)	0		0		KL,	/A
rait-C							
Pollution discha	arged to environment/ur	nit of output (Paramete	r as specified	d in the con	sent issued)		
Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollu discharged(Mg/Lit) Ex- PH,Temp,Colour Concentration		from pres	s with reasons	Standard	Reason
-	0	0		-		-	-
[B] Air (Stack)							
Pollutants Deta	Pollutants discharged (kL/day)	Concentration of Poll discharged(Mg/NM3)		from pres standards	with reasons	a	_
-	Quantity 0	Concentration 0		%variatio	n	Standard -	Reason -
Part-D							
HAZARDOUS WA							
1) From Process		revious Financial vear	Tot	al During Ci	urrent Financial y	vear	иом

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 Ton/Y

2) From Pollution Control Facilities

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

3) Quantity Recycled or Re-utilized within the unit

Waste TypeTotal During Previous Financial yearTotal During Current Financial yearUOM year000Ton/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 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

[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection

Environmental Protection

Measures

0

- 0

Part-I

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:



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

Address

Office of the Sub Area Manager, Rajur Sub Area, Po.- Rajur, Tal.- Wani, Distt. -Yavatmal, Maharashtra

Plot no

168

Capital Investment (In lakhs)

4688.69

Pincode 445304

Telephone Number

8380095385

Region SRO-Chandrapur

submitted online

yes

Consent Valid Upto

2022-04-30

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

Last Environmental statement

Application UAN number

Taluka Wani

Scale

L.S.I

Person Name

Satyendra Kumar

Fax Number

07239241357

Industry Category

Red

Consent Number

BO/JD(APC)/TB-2/UANno89584/R/CC-2012000056 2020-12-01

Establishment Year

1973

Village

Rajur

City Wani

Email

Designation

Sub Area Manager, Ghonsa Sub Area

rajursubareawcl@gmail.com

Industry Type

R35 Mining and ore beneficiation

Consent Issue Date

Date of last environment statement

submitted

Sep 29 2020 12:00:00:000AM

Product Information

Product Name Consent Quantity Actual Quantity UOM 0.21 0.056 Coal MT/A

By-product Information

By Product Name **Consent Quantity Actual Quantity UOM** 0 0 Ton/Y

Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day Water Consumption for		n m3/day	Consent Quant	tity in m3/day		Actual Quantity	y in m3/da	y	
Process			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 Genera	ation in	CMD / MLD							
Particulars				sent Quantity		Actual Quantity	y	UOM	
Mine Discharge			1395	ob		10630		CMD	
2) Product Wise P process water per			otion (cubic meter of						
Name of Products				During the F				UOM	
Coal				financial Yea	ar	Financial y 2.41	ear	CMD	
3) Raw Material C			tion of raw						
material per unit		luct)	Duu	ring the Previo	nus	During the curre	ent	иом	
Name of Naw Mac	Cilais			ancial Year	Jus	Financial year	311 C	0014	
Explosives			0.44	4		0.33		Kg/Annum	
4) Fuel Consumpt	ion								
Fuel Name			Consent quantit	У		Quantity	UO		
Diesel			0		7.1		KL/	'A	
Part-C									
	ed to	environment/un	it of output (Parameter	as specified in	the con	sent issued)			
[A] Water Pollutants Detail	1	Quantity of Pollutants discharged	Concentration of Podischarged(Mg/Lit) PH,Temp,Colour		variatio prescri	tage of on from bed standards			
		(kL/day) Quantity	Concentration		with re %varia		Standard	l Reason	
Water quality monitoring reports h been attached	(-	0		-		-	-	
[B] Air (Stack)					Porconta	no of voriotion			
[B] Air (Stack) Pollutants Detail	Pollus disch	arged (kL/day)	Concentration of Polludischarged (Mg/NM3)	f s	rom pres tandards	s with reasons			
	Pollu	tants arged (kL/day)		f s	rom pres	scribed s with reasons	Standard	l Reason	

HAZARDOUS WASTES

0	0				0			MT/A
2) From Pollution								
Hazardous Waste 0	Туре	Total During Pr	evious Fir	nancial year	Total Du 0	ring Current Financi	al year	UOM MT/A
Part-E		·			ŭ			,.
SOLID WASTES								
1) From Process								
Non Hazardous Wa -	aste Type	Total During P o	revious Fi	nancial year	Total De 0	uring Current Financ	ial year	UOM MT/A
2) From Pollution	Control Fa	ncilities						
Non Hazardous Wa -	aste Type	Total D	uring Prev	ious Financia,	I year Tota 0	al During Current Fin	nancial year	UOM MT/A
3) Quantity Recycl	led or Re-	utilized within th	ne					
Waste Type			To	tal During Pre	vious Financia	I Total During Curi	rent Financial	иом
••			ye	_		year		
0			0			0		MT/A
Part-F								
Please specify the indicate disposal p						ardous as well as so	lid wastes and	_
1) Hazardous Was	te							
Type of Hazardous	s Waste G	enerated	Qty of H 0	lazardous Was	ste UOM MT/A	Concentration of H	lazardous Was	te
2) Solid Waste Type of Solid Wast	to Gonora	tod	Oty of	Solid Wasto	иом	Concentration of	Solid Wasto	
-	le General	tea	0	Solid Waste	MT/A	-	sonu Waste	
Part-G								
Impact of the pollo	ution Cont	rol measures ta	ken on co	nservation of	natural resour	ces and consequent	ly on the cost	of
Description R	eduction i later onsumption M3/day)	Fuel & So	olvent otion	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction i Maintenand Lacs)	
Impact of the 8 pollution Control measures taken	_	0.0091		10842	885522	0	0	

Part-H

measures taken

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

- - 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

Sub Area Manager, Ghonsa Sub Area

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000036706

Submitted On:



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

Address

Office of the Sub Area Manager, Ukni - Junad Sub Area,

PO. - Ukni, Tal- Wani, Dist - Yavatmal

Plot no 669

Capital Investment (In lakhs) 31344.6

Pincode 445304

Telephone Number

9607922288

Region

SRO-Chandrapur

Last Environmental statement submitted online

yes

Consent Valid Upto

31.03.2021

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

Application UAN number

Taluka Wani

Scale L.S.I

Person Name

B V Bhaskar Reddy

Fax Number

07239241357

Industry Category

Red

1993

Consent Number

MPCB-CONSENT-0000087450 29.07.2020

Establishment Year

Village

Ukni

City

Wani

Email

Designation

Industry Type

Date of last environment statement submitted

R35 Mining and ore beneficiation

wclsamujsa@gmail.com

Consent Issue Date

Sub Area Manager, Ukni-Junad Sub Area

Sep 26 2020 12:00:00:000AM

Product Information

Product Name Consent Quantity Actual Quantity UOM COAL 2.2 1.53 MT/A

By-product Information

By Product Name **Consent Quantity Actual Quantity** иом 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

Process		380.00		380.00	
Cooling		0.00		0.00	
Domestic		100.00		26.00	
All others		100.00		100.00	
Total		580.00		506.00	
	ation in CMD / MLD				
Particulars Mine discharge			Consent Quantity 4603	Actual Quantity 4540	UOM CMD
2) Product Wise P process water per		umption (cubic meter o	of		
Name of Products			During the Previous financial Year	S During the curre Financial year	ent UOM
Coal			0.1	0.12	CMD
3) Raw Material Co material per unit o	onsumption (Consu of product)	mption of raw			
Name of Raw Mate	erials		During the Previous financial Year	During the current Financial year	UOM
Explosives			1.92	2.69	Kg/Annum
4) Fuel Consumpti Fuel Name	ion	Concept mus	matika. A sakura l	O	шом
Diesel		Consent qua 0	4977.75	Quantity	UOM KL/A
Part-C					
	ed to environment,	/unit of output (Parame	eter as specified in the co	nsent issued)	
[A] Water Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration discharged(Mg PH,Temp,Colo Concentration	g/Lit) Except variat ur presci with r	ntage of ion from ribed standards easons ation Sta	ndard Reason
Water quality monitoring reports h been attached	0	0	-	-	-
[B] Air (Stack) Pollutants Detail	Quantity of Pollutants discharged (kL/da	Concentration of discharged(Mg/Ni y)	M3) from pre	nge of variation scribed Is with reasons	
NA	Quantity 0	Concentration 0	%variati -	on Sta -	ndard Reason -
Part-D					
HAZARDOUS WAS	TES				
1) From Process Hazardous Waste 5.1 Used or spent oi		tal During Previous Fir	nancial year Total Duri 48.86	ng Current Financial y	ear UOM KL/A

5.28

Ton/Y

5.2 Wastes or residues containing oil 7.14

Part-E							
SOLID WASTES 1) From Proce Non Hazardou		Ouring Previous	Financial year	Total Dur 0	ing Current F	inancial year	UON CMD
2) From Pollut Non Hazardou -	ion Control Facilities s Waste Type	Total During Pr 0	evious Financi	al year Total 0	During Curre	nt Financial year	UOM CMD
	ecycled or Re-utilized	within the					
unit Waste Type			_	evious Financial	-	g Current Financial	UOM
0) C	rear)		year 0		CMD
Part-F							
1) Hazardous Type of Hazard 5.1 Used or spen	dous Waste Generate	d		Qty of Hazardous Waste 48.6	UOM KL/A	Concentration of Hazardous Waste	
5.2 Wastes or re	esidues containing oil			5.28	Ton/Y	-	
34.2 Sludge from disposal of barre	m treatment of waste wa els / containers	ater arising out of o	cleaning /	36.84	Ton/Y	-	
2) Solid Waste Type of Solid V	Naste Generated	Qty (of Solid Waste	UOM CMD	Concentratio	on of Solid Waste	
Part-G							
Impact of the production.	pollution Control mea	sures taken on o	conservation of	natural resource	es and conse	quently on the cost	of
Description	Water Consumption	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investmei Lacs)	Reduction i nt(in Maintenand Lacs)	
Impact of the	-	0	0	480887	0	0	

Total During Previous Financial year

9.38

Total During Current Financial year

36.84

UOM

Ton/Y

2) From Pollution Control Facilities

cleaning / disposal of barrels / containers

34.2 Sludge from treatment of waste water arising out of

Hazardous Waste Type

pollution Control measures taken

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)

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 Environmental Protection Measures

Capital Investment (Lacks)

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

MPCB-ENVIRONMENT_STATEMENT-0000036065

Submitted On:



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

Address

Office of the Sub Area Manager, Kolar Pimpri-Pimpalgaon Sub Area, Po.- Ukni, Tal.- Wani, Distt. -

Yavatmal, Maharashtra

Plot no

Capital Investment (In lakhs) 81.38

Pincode

445304

Telephone Number

7447434791

Region

SRO-Chandrapur

Last Environmental statement submitted

online

Consent Valid Upto

30.09.2022

Industry Category Primary (STC Code) & Secondary (STC Code) Application UAN number

MPCB-CONSENT-0000082303

Taluka Village

wani -

Scale City
L.S.I Yavatmal

Person Name Designation

SB Prasad Sub Area Manager, Kolar Pimpri-Pimpalgaon Sub

Area

Fax Number Email

wclsamkolarpimpri@gmail.com

Industry Category Industry Type

Green G59 Mineral stack yard / Railway sidings

Consent Number Consent Issue Date

MPCB-CONSENT-0000082303 12.12.2019

Establishment Year Date of last environment statement

submitted

1992 Sep 30 2020 12:00:00:000AM

Product Information

Product NameConsent QuantityActual QuantityUOMLoading and unloading of Coal (Coal Stock Yard)4.81.85MT/A

By-product Information

By Product Name Consent Quantity Actual Quantity UOM
- 0 Ton/Y

Part-B (Water & Raw Material Consumption)

HAZARDOUS WASTES

1) From Process

- 0 0	3/aay	
Cooling 0.00 0.00 0.00 Domestic 1.00 1.00 1.00 All others 0.00 0.00 Total 101.00 101.00 2) Effluent Generation in CMD / MLD 101.00 2) Effluent Generation in CMD / MLD 2 Particulars 0 0 2) Product Wise Process Water Consumption (cubic meter of process water per unit of product) Name of Products (Production) During the Previous financial Year 0 OTHERS 0 0 During the Previous financial Year 0 3) Raw Material Consumption (Consumption of raw material per unit of product) Name of Raw Materials During the Previous financial Year 0 4) Fuel Consumption Fuel Name Consent quantity Actual Quantity NA 0 0 0 4) Fuel Consumption Fuel Name Consent quantity Actual Quantity Pollution discharged to environment/unit of output (Parameter as specified in the consent issued) [A] Water Pollutants Quantity of Detail Quantity Of Concentration of Pollutants discharged (ML/day) Standards with reasons Standards		
All others 0.00 0.00 Total 101.00 101.00 Total 101.00 101.00 2) Effluent Generation in CMD / MLD Particulars 0 0 0 2) Product Wise Process Water Consumption (cubic meter of process water per unit of product) Name of Products (Production) During the Previous financial Year 0 3) Raw Material Consumption (Consumption of raw material per unit of product) Name of Raw Materials During the Previous financial Year 0 4) Fuel Consumption Fuel Consumption Financial Year 0 4) Fuel Consumption Fuel Consumption Consumption of raw material per unit of product) Name of Raw Materials Consumption Fuel Consumption O 0 4) Fuel Consumption Fuel Name Consent quantity Actual Quantity -NA 0 0 Part-C Pollution discharged to environment/unit of output (Parameter as specified in the consent issued) [A] Water Pollutants discharged (ML/day) PH, Emp, Colour from prescribed standards with reasons wariation from prescribed standards with reasons Standards Wath reasons Pellutants discharged (ML/day) Quantity of Concentration of Pollutants discharged (Mg/MM3) Percentage of variation from prescribed from prescribed for pollutants discharged (Mg/MM3) Percentage of variation from prescribed from prescribed from prescribed for pollutants discharged (Mg/MM3) Percentage of variation from prescribed fro		
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2) Effluent Generation in CMD / MLD Particulars Consent Quantity During the Previous financial Year OTHERS OTHERS During the Previous financial Year OTHERS OTHERS OTHERS OTHERS OTHERS OTHERS During the Previous financial Year OTHERS OTHERS OTHERS During the Previous financial Year OTHERS OTHERS OTHERS OTHERS OTHERS OTHERS DURING THE PREVIOUS FINANCIAL YEAR Financial Year OTHERS		
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2) Product Wise Process Water Consumption (cubic meter of process water per unit of product) Name of Products (Production) 3) Raw Material Consumption (Consumption of raw material per unit of product) Name of Raw Materials 4) Fuel Consumption Fuel Name Consent quantity Actual Quantity Part-C Pollution discharged to environment/unit of output (Parameter as specified in the consent issued) [A] Water Pollutants Quantity Quantity Quantity Concentration of Pollutants discharged (kL/day) Quantity Quantity Concentration Concentration Pollutants O Concentration Pollutants Percentage of variation Firem prescribed Standards with reasons Standards with reasons Standards with reasons Standards with reasons Pollutants Percentage of variation Pollutants Pollutants Pollutants Pollutants Percentage of variation Pollutant		
2) Product Wise Process Water Consumption (cubic meter of process water per unit of product) Name of Products (Production) OTHERS During the Previous financial Year 0 During the Previous financial Year 0 During the Previous financial Year 0 During the Previous financial Year During the Previous financial Year Financial Year O During the Previous financial Year Financial Year Financial Year O O Actual Quantity Part-C Pollution discharged to environment/unit of output (Parameter as specified in the consent issued) [A] Water Pollutants		I OM MD
Process water per unit of products (Production) Name of Products (Production) During the Previous financial Year 0 Actual Quantity Actual Quantity Part-C Pollution discharged to environment/unit of output (Parameter as specified in the consent issued) [A] Water Pollutants Quantity of John John John John John John John John	CN	МО
Name of Products (Production) OTHERS		
3) Raw Material Consumption (Consumption of raw material per unit of product) Name of Raw Materials During the Previous financial Year 0 0 4) Fuel Consumption Fuel Name Consent quantity Actual Quantity NA Part-C Pollution discharged to environment/unit of output (Parameter as specified in the consent issued) [A] Water Pollutants Quantity of Concentration of Pollutants discharged (Mg/Lit) Except from prescribed standards with reasons Quantity Quantity Concentration of Pollutants Quantity of Concentration of Pollutants discharged (Mg/Lit) Except from prescribed standards with reasons Quantity Concentration of Pollutants Pollutants Quantity of Concentration of Pollutants Concentration of Pollutants Percentage of variation from prescribed Stan Concentration of Pollutants Percentage of variation from prescribed	ent	UO
3) Raw Material Consumption (Consumption of raw material per unit of product) Name of Raw Materials During the Previous financial Year 0 4) Fuel Consumption Fuel Name Consent quantity Actual QuantityNA 0 Part-C Pollution discharged to environment/unit of output (Parameter as specified in the consent issued) [A] Water Pollutants Detail Pollutants Quantity Concentration of Pollutants discharged (KL/day) PH,Temp,Colour Quantity Concentration Concentration O Concentration of Pollutants Percentage of variation from prescribed standards with reasons Concentration Follutants Quantity Concentration of Pollutants Percentage of variation from prescribed from prescribed Standards with reasons Concentration of Pollutants Percentage of variation Follutants Detail Quantity of Pollutants Percentage of variation From prescribed		614
Name of Raw Materials During the Previous financial Year During the current financial Year During the Current financial Year O		CMI
financial Year Financial year 0 4) Fuel Consumption Fuel Name Consent quantity Actual QuantityNA Part-C Pollution discharged to environment/unit of output (Parameter as specified in the consent issued) [A] Water Pollutants Quantity of Concentration of Pollutants Percentage of variation from prescribed discharged (kL/day) PH,Temp,Colour Standards with reasons Quantity Concentration		
4) Fuel Consumption Fuel Name	U	JOM
Fuel Name	K	(g/Annu
Pollution discharged to environment/unit of output (Parameter as specified in the consent issued) [A] Water Pollutants Quantity of Concentration of Pollutants Percentage of variation from prescribed standards with reasons Quantity Concentration %variation Standards Water Pollutants Operation Operation Concentration Concentration Standards Water Pollutants Operation Concentration Concentration Standards Water Pollutants Detail Quantity of Concentration Operation Pollutants Percentage of Variation from prescribed		
Pollution discharged to environment/unit of output (Parameter as specified in the consent issued) [A] Water Pollutants Quantity of Concentration of Pollutants Percentage of variation from prescribed discharged (kL/day) PH, Temp, Colour Standards with reasons Quantity Concentration %variation Stan 0 0	UOM	1
Pollution discharged to environment/unit of output (Parameter as specified in the consent issued) [A] Water Pollutants Quantity of Concentration of Pollutants Percentage of variation from prescribed discharged (kL/day) PH,Temp,Colour standards with reasons Quantity Concentration %variation Standards with reasons O O	KL/A	ı
[A] Water Pollutants Quantity of Concentration of Pollutants Percentage of variation discharged (Mg/Lit) Except from prescribed standards with reasons Quantity Concentration %variation Stan O 0		
Pollutants Quantity of Concentration of Pollutants Percentage of variation discharged (Mg/Lit) Except from prescribed standards with reasons Quantity Concentration %variation Stan 0 0		
[B] Air (Stack) Pollutants Detail Quantity of Concentration of Pollutants Percentage of variation pollutants Pollutants Concentration of Pollutants Percentage of variation prescribed	ndard	Reaso
Pollutants Detail Quantity of Concentration of Pollutants Percentage of variation pollutants Pollutants discharged(Mg/NM3) From prescribed		-
Pollutants discharged(Mg/NM3) from prescribed		
,	dard	Reaso
NA 0 0		-

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

Hazardous Was	te Type	0	Ouring Previous F	inanciai year	0 0	ng Current Financia	al year	UOM Ton/Y
Part-E								
SOLID WASTES 1) From Process Non Hazardous	_	Total I	During Previous I	Financial year	Total Dur	ing Current Financ	ial year	UOI
NA		0			0			Ton
2) From Pollution Non Hazardous NA		cilities	Total During Pr	evious Financia	l year Total	During Current Fin	ancial year	UOI
3) Quantity Recunit	ycled or Re-I	utilized	within the					
Waste Type				otal During Pre ear	vious Financial	Total During Curr year	ent Financial	UOI
0			0			0		Ton/
Part-F								
	al practice ad		n terms of conce for both these ca			dous as well as sol	lid wastes and	<u>d</u>
Type of Hazardo		enerate		Hazardous Was		Concentration of H	azardous Wa	ste
0			0		Ton/Y	-		
2) Solid Waste								
Type of Solid W NA	aste Genera	ted	Qty 6	of Solid Waste	UOM Ton/Y	Concentration of S	Solid Waste	
Part-G								
Impact of the poproduction.	ollution Cont	trol mea	sures taken on o	conservation of	natural resource	es and consequent	ly on the cost	of
	Reduction		Reduction in Fuel & Solvent	Reduction in Raw Material	Reduction in Power Consumption	Capital Investment(in Lacs)	Reduction Maintenan Lacs)	
Description	Water Consumpti (M3/day)		Consumption (KL/day)	(Kg)	(KWH)			
Description Impact of the pollution Control measures taken			(KL/day) 0	(Kg) 0	(KWH) 0	0	0	
Impact of the pollution Control	Consumpti (M3/day)		(KL/day)	_		0	0	
Impact of the pollution Control measures taken Part-H	Consumpti (M3/day) 0		(KL/day) 0	0	0	of pollution, preve		

Environmental Protection

Measures

Capital Investment

(Lacks)

0

Total During Previous Financial year

Total During Current Financial year

UOM

2) From Pollution Control Facilities

Detail of measures for Environmental Protection

Regular water sprinkling is being done with mobile tanker every day

Hazardous Waste Type

[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

S B Prasad , Sub Area Manager

IIAN No:

MPCB-ENVIRONMENT_STATEMENT-0000036069

Submitted On:



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

Address

Office of the Sub Area Manager, Kolar Pimpri- Pimpalgaon Sub Area, Po. - Ukni, Tal.- Wani, Distt. - Yavatmal

Plot no 79

Capital Investment (In lakhs)

6368.1

Pincode 445304

Telephone Number 7447339316

Region

SRO-Chandrapur

Last Environmental statement submitted online

yes

Consent Valid Upto

31.08.2023

(STC Code)

Product Information

Consent Quantity Product Name coal 1.5 0

By-product Information

By Product Name **Consent Quantity Actual Quantity UOM** 0 0

Part-B (Water & Raw Material Consumption)

Industry Category Primary (STC Code) & Secondary

Application UAN number

Taluka Wani

Scale L.S.I.

Person Name

S B PRASAD

Fax Number 07239241357

Industry Category

Red

1993

Consent Number

MPCB-CONSENT-0000041537 Approved in CAC meeting dated 03-04-2019

Establishment Year

Date of last environment statement submitted

Sep 29 2020 12:00:00:000AM

Actual Quantity

Village

Designation

wnaenv@gmail.com

Consent Issue Date

R35 Mining and ore beneficiation

Industry Type

Sub Area

Email

City WANI

Sub Area Manager, Kolarpimpri- Pimpalgaon

Ton/Y

UOM

MT/A

Water Consumption for Consent Process 0.00			ntity in m3/	day	Actual Quantit 0.00	ty in m3/day	/
Cooling		0.00			0.00		
Domestic		750.00			0.00		
All others		0.00			0.00		
Total		750.00			0.00		
	ration in CMD / MLD						
Particulars Daily Trade Effluer	nt (Mine Discharge)		Consent Q 0	uantity	Actual Quan 0	-	UOM CMD
	Process Water Consum er unit of product)	ption (cubic meter of					
Name of Product				ng the Previ		ne current	иом
Coal (Cubic Meter		finar 0	icial Year	Financial 0	year	CMD	
3) Raw Material per unit of produ	Consumption (Consum	otion of raw material					
Name of Raw Ma			During the		During the cur		ЈОМ
Explosives (Kg/Tor	nnes)		financial Y	ear	Financial year 0		Kg/Annum
4) Fuel Consump	otion			_			
Fuel Name High Speed diesel	(Litre)	Consent quantit 0		Actual Quantity 0		UC KL,)M /A
Part-C							
Pollution discha	rged to environment/ur	nit of output (Paramete	r as specifie	d in the con	sent issued)		
Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Polludischarged(Mg/Lit) Ex PH,Temp,Colour Concentration		from pres	s with reasons	Standard	Reason
-	0	0		-		-	-
[B] Air (Stack)							
Pollutants Detai	Pollutants discharged (kL/day)	Concentration of Pol discharged(Mg/NM3)		from pres standards	with reasons		
	Quantity 0	Concentration 0		%variatio	n	Standard -	Reason -
-							
- Part-D							
Part-D HAZARDOUS WA	ISTES						
HAZARDOUS WA 1) From Process				in Domin - C	urrent Financial y		UOM

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 Ton/Y

2) From Pollution Control Facilities

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

3) Quantity Recycled or Re-utilized within the unit

Waste TypeTotal During Previous Financial yearTotal During Current Financial yearUOM year00Ton/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 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

[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection Environmental Protection (Lacks)
- 0

- 0

Part-I

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:



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

Address

Office of the Sub Area Manager, Rajur Sub Area, Po.- Rajur, Tal.- Wani, Distt. -Yavatmal, Maharashtra

Plot no

168

Capital Investment (In lakhs)

4688.69

Pincode 445304

Telephone Number

8380095385

Region SRO-Chandrapur

submitted online

yes

Consent Valid Upto

2022-04-30

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

Last Environmental statement

Application UAN number

Taluka Wani

Scale

L.S.I

Person Name

Satyendra Kumar

Fax Number

07239241357

Industry Category

Red

Consent Number

BO/JD(APC)/TB-2/UANno89584/R/CC-2012000056 2020-12-01

Establishment Year

1973

Village

Rajur

City Wani

Designation

Sub Area Manager, Ghonsa Sub Area

Email

rajursubareawcl@gmail.com

Industry Type

R35 Mining and ore beneficiation

Consent Issue Date

Date of last environment statement

submitted

Sep 29 2020 12:00:00:000AM

Product Information

Product Name Consent Quantity Actual Quantity UOM 0.21 0.056 Coal MT/A

By-product Information

By Product Name **Consent Quantity Actual Quantity UOM** 0 0 Ton/Y

Part-B (Water & Raw Material Consumption)

1) Water Consumption Water Consumption		Consent Quantity in	m3/day	Actual Quantity	in m3/day	,
Process		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 Genera	tion in CMD / MLD					
Particulars		Consent Q	uantity	Actual Quantity		UOM
Mine Discharge		13956		10630		CMD
2) Product Wise Process water per		nption (cubic meter of				
Name of Products			ing the Previous			UOM
Coal		π na 2.46	ncial Year	Financial ye 2.41	ear	CMD
	onsumption (Consum	ption of raw				
material per unit of Name of Raw Mate		During th	ne Previous	During the curre	nt	иом
Name of Naw Mate	eriais	financial		Financial year	enc	ООМ
Explosives		0.44		0.33		Kg/Annum
4) Fuel Consumpti	on					
Fuel Name		Consent quantity		Quantity	UO	
Diesel		0	7.1		KL/	А
Part-C						
	ed to environment/u	nit of output (Parameter as spe	cified in the con	sent issued)		
[A] Water Pollutants Detail	Quantity of Pollutants	Concentration of Polluta discharged(Mg/Lit) Excep		tage of on from		
	discharged	PH,Temp,Colour		bed standards		
	(kL/day) Quantity	Concentration	with re %varia		Standard	Reason
Water quality monitoring reports h been attached	0	0	-		-	-
[B] Air (Stack)						
Pollutants Detail	Quantity of Pollutants	Concentration of Pollutants discharged(Mg/NM3)	from pres	ge of variation scribed s with reasons		
ronutants Detail	discharged (kL/day)		Standarus	s with reasons		
NA		Concentration 0	%variatio		Standard	Reason

HAZARDOUS WASTES

0	0				0			MT/A
2) From Pollution (
Hazardous Waste 1	Гуре	Total During Pr	evious F	inancial year	Total Du 0	ring Current Financi	al year	UOM MT/A
Part-E		·			ŭ			,.
SOLID WASTES								
1) From Process								
Non Hazardous Wa -	ste Type	Total During Pi 0	revious F	inancial year	Total D o	uring Current Finand	cial year	UOM MT/A
2) From Pollution (Control Fa	cilities						
Non Hazardous Wa -	ste Type	Total D 0	uring Pre	evious Financia	I year Tota 0	al During Current Fir	nancial year	UOM MT/A
3) Quantity Recycle	ed or Re-u	ıtilized within th	ie					
Waste Type			Te	otal During Pre	vious Financia	l Total During Cur	rent Financial	иом
				ear		year		
0			0			0		MT/A
Part-F								
Please specify the indicate disposal p						ardous as well as so	lid wastes and	_
1) Hazardous Wast	e							
Type of Hazardous	Waste Ge	enerated	Qty of 0	Hazardous Was	ste UOM MT/A	Concentration of F	lazardous Was	te
2) Solid Waste	o Comoro	to d	Otra o	f Colid Wasta	иом	Concentration of	Solid Wosto	
Type of Solid Wast	e General	iea	Q ty 0	f Solid Waste	MT/A	-	Sona Waste	
Part-G								
Impact of the polluproduction.	tion Cont	rol measures ta	ken on c	onservation of	natural resour	rces and consequent	tly on the cost	of
W Co	eduction i ater onsumptio 13/day)	Fuel & So	olvent	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction i Maintenand Lacs)	
Impact of the pollution Control measures taken	-	0.0091		10842	885522	0	0	

Part-H

measures taken

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

- - 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

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

Address

Office of the Sub Area Manager, Ukni - Junad Sub Area,

PO. - Ukni, Tal- Wani, Dist - Yavatmal

Plot no 669

Capital Investment (In lakhs) 31344.6

Pincode 445304

Telephone Number

9607922288

Region

SRO-Chandrapur

Last Environmental statement submitted online

yes

Consent Valid Upto

31.03.2021

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

Application UAN number

Taluka Wani

Scale L.S.I

Person Name

B V Bhaskar Reddy

Fax Number

07239241357

Industry Category

Red

1993

Consent Number

MPCB-CONSENT-0000087450 29.07.2020

Establishment Year

Village

Ukni

City

Wani

Email

Designation

Industry Type

wclsamujsa@gmail.com

Consent Issue Date

Date of last environment statement

Sub Area Manager, Ukni-Junad Sub Area

submitted

Sep 26 2020 12:00:00:000AM

R35 Mining and ore beneficiation

Product Information

Product Name Consent Quantity Actual Quantity UOM COAL 2.2 1.53 MT/A

By-product Information

By Product Name **Consent Quantity Actual Quantity** иом 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

Process		380.00		380.00	
Cooling		0.00		0.00	
Domestic		100.00		26.00	
All others		100.00		100.00	
Total		580.00		506.00	
	ation in CMD / MLD				
Particulars Mine discharge			Consent Quantity 4603	Actual Quantit 4540	y UOM CMD
2) Product Wise P process water per	rocess Water Consun	nption (cubic meter o	of		
Name of Products			During the Previo financial Year	us During the Financial ye	
Coal			0.1	0.12	CMD
3) Raw Material Comaterial per unit	onsumption (Consum of product)	ption of raw			
Name of Raw Mate	erials		During the Previous financial Year	During the curre Financial year	ent UOM
Explosives			1.92	2.69	Kg/Annum
4) Fuel Consumpt	ion	Composit sur	matiku. A akura	I Owner titus	UOM
Diesel		Consent qua 0	4977.7	I Quantity '5	KL/A
Part-C					
	ed to environment/u	nit of output (Param	eter as specified in the c	onsent issued)	
[A] Water Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration discharged (Mg PH, Temp, Colo	g/Lit) Except varia ur preso with	entage of tion from cribed standards reasons iation	Standard Reason
Water quality monitoring reports h been attached	0	0	-		
[B] Air (Stack) Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of discharged(Mg/N	M3) from pi	tage of variation rescribed rds with reasons	
NA	Quantity 0	Concentration 0	%varia: -	tion	Standard Reason
Part-D					
HAZARDOUS WAS	TES				
1) From Process Hazardous Waste 5.1 Used or spent oi		l During Previous Fir	nancial year Total Du 48.86	ring Current Financ	cial year UOM KL/A

5.28

Ton/Y

5.2 Wastes or residues containing oil 7.14

Part-E							
SOLID WASTES 1) From Proce Non Hazardou		Ouring Previous	Financial year	Total Dur 0	ing Current F	inancial year	UON
2) From Pollut Non Hazardou -	ion Control Facilities s Waste Type	Total During Pr 0	evious Financia	al year Total 0	During Currei	nt Financial year	UOM CMD
	ecycled or Re-utilized	within the					
unit Waste Type			_	evious Financial	_	Current Financial	иом
0) C	rear		year 0		CMD
Part-F							
1) Hazardous Type of Hazard 5.1 Used or spen	dous Waste Generate	d		Qty of Hazardous Waste 48.6		Concentration of Hazardous Waste	
5.2 Wastes or re	esidues containing oil			5.28	Ton/Y	-	
34.2 Sludge from	m treatment of waste wa els / containers	ater arising out of o	cleaning /	36.84	Ton/Y	-	
2) Solid Waste Type of Solid V	Naste Generated	Qty (of Solid Waste	UOM CMD	Concentratio	n of Solid Waste	
Part-G							
Impact of the production.	pollution Control mea	sures taken on o	conservation of	natural resource	es and conseq	quently on the cost	of
Description	Water Consumption	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investmen Lacs)	Reduction i t(in Maintenanc Lacs)	
Impact of the	-	0	0	480887	0	0	

Total During Previous Financial year

9.38

Total During Current Financial year

36.84

UOM

Ton/Y

2) From Pollution Control Facilities

cleaning / disposal of barrels / containers

34.2 Sludge from treatment of waste water arising out of

Hazardous Waste Type

pollution Control measures taken

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)

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 Environmental Protection Measures

Capital Investment (Lacks)

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

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

Address

Office of the Sub Area Manager, Kolar Pimpri-Pimpalgaon Sub Area, Po.- Ukni, Tal.- Wani, Distt. -

Last Environmental statement submitted

Yavatmal, Maharashtra

Plot no

Capital Investment (In lakhs)

81.38

Pincode

445304

Telephone Number

7447434791

Region

SRO-Chandrapur

one chanarapar

online

no

Consent Valid Upto

30.09.2022

Secondary (STC Code)

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

Application UAN number

MPCB-CONSENT-0000082303

Taluka Village

wani -

Scale City
L.S.I Yavatmal

Person Name Designation

SB Prasad Sub Area Manager, Kolar Pimpri-Pimpalgaon Sub

Area

Fax Number Email

wclsamkolarpimpri@gmail.com

Industry Category Industry Type

Green G59 Mineral stack yard / Railway sidings

Consent Number Consent Issue Date

MPCB-CONSENT-0000082303 12.12.2019

Establishment Year Date of last environment statement

submitted

1992 Sep 30 2020 12:00:00:000AM

Product Information

Product NameConsent QuantityActual QuantityUOMLoading and unloading of Coal (Coal Stock Yard)4.81.85MT/A

By-product Information

By Product Name Consent Quantity Actual Quantity UOM
- 0 Ton/Y

Part-B (Water & Raw Material Consumption)

HAZARDOUS WASTES

1) From Process

1) Water Consumpti		Compant Owner!	, in modelan	Aghiral Arrandi	n. in m. 2/de	
Water Consumpti Process	ion for	Consent Quantity 100.00	/ In m3/day	Actual Quantit 100.00	y in m3/day	
Cooling						
_		0.00		0.00		
Domestic		1.00		1.00		
All others		0.00		0.00		
Total		101.00		101.00		
	ation in CMD / MLD	_				
Particulars		Consen 0	t Quantity	Actual Quantity 0		I OM IMD
-		Ü		U		טואו.
	Process Water Consum r unit of product)	ption (cubic meter of				
Name of Products			During the Previo	ous During th	e current	UOI
OTHERS			financial Year	Financial	year	CME
OTHERS			0	0		CME
3) Raw Material (material per unit	Consumption (Consum) of product)	otion of raw				
Name of Raw Mat			g the Previous cial Year	During the curr Financial year	rent l	JOM
-		0	liai i eai	0	ŀ	(g/Annur
4) Fuel Consump	tion					
Fuel Name	<u> </u>	Consent quantity	Actu	ual Quantity	UOI	М
NA		0	0		KL/A	\
Part-C						
	ged to environment/un	nit of output (Parameter as	specified in the co	onsent issued)		
[A] Water Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutan discharged(Mg/Lit) Except PH,Temp,Colour Concentration	from pr	tage of variation escribed rds with reasons tion	Standard	Reaso
-	0	0	-		-	-
[B] Air (Stack)						
Pollutants Detail	Pollutants discharged (kL/day)	Concentration of Polluta discharged(Mg/NM3)	from pr standar	age of variation escribed ds with reasons		
NIA	Quantity	Concentration	%variat	ion	Standard	Reaso
NA	0	0	-		-	-

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

		Total D	_		Total Duri 0		, , , , , , , , , , , , , , , , , , , ,	UOM Ton/Y
Part-E								
SOLID WASTES 1) From Process Non Hazardous	-	Total I	During Previous	Financial year	Total Dur	ing Current Financi	al year	UOI
NA		0			0			Ton
2) From Pollutio Non Hazardous NA		cilities	Total During Pr 0	evious Financia	I year Total 0	During Current Fina	ancial year	UOI
3) Quantity Recunit	ycled or Re-u	ıtilized	within the					
Waste Type				otal During Pre ear	vious Financial	Total During Curre year	ent Financial	UOI
0			0			0		Ton
Part-F								
	al practice ac	lopted	for both these ca		stes.	rdous as well as solo		
0 nazardo	ous waste Ge	enerate	a Qty 01	nazaruous was	Ton/Y	-	azardous wa	ste
2) Calid Wasta								
2) Solid Waste Type of Solid Waste								
	aste Generat	ted	Qty (of Solid Waste	UOM	Concentration of S	Solid Waste	
NA	aste Generat	ted	Qty 0	of Solid Waste	UOM Ton/Y	Concentration of S	Solid Waste	
NA	aste Generai	ted	_	of Solid Waste		Concentration of S	Solid Waste	
NA Part-G			0		Ton/Y	Concentration of S - es and consequent!		of
Part-G Impact of the poproduction.		rol mea in on	0		Ton/Y natural resourc	-		in
Part-G Impact of the poproduction. Description	Reduction Water Consumptic	rol mea in on	nsures taken on o Reduction in Fuel & Solvent Consumption	conservation of Reduction in Raw Material	natural resource Reduction in Power Consumption	es and consequentl Capital Investment(in	y on the cost Reduction Maintenan	in
Part-G Impact of the poproduction. Description Impact of the pollution Control	Reduction Water Consumptic (M3/day)	rol mea in on	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	natural resource Reduction in Power Consumption (KWH)	es and consequentl Capital Investment(in Lacs)	y on the cost Reduction Maintenand Lacs)	in
Part-G Impact of the poproduction. Description Impact of the pollution Control measures taken Part-H	Reduction Water Consumption (M3/day)	rol mea	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	natural resource Reduction in Power Consumption (KWH)	es and consequentl Capital Investment(in Lacs)	Reduction Maintenant Lacs)	in ce(in

Environmental Protection

Measures

Capital Investment

(Lacks)

0

Total During Previous Financial year

Total During Current Financial year

UOM

2) From Pollution Control Facilities

Detail of measures for Environmental Protection

Regular water sprinkling is being done with mobile tanker every day

Hazardous Waste Type

[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

S B Prasad , Sub Area Manager

IIAN 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

INDEX

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	PART-C	03
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	PART-F	04
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EXECUTIVE SUMMARY

- <u>E.1.0</u> This Environment Statement Report has been prepared as per gazette notification no. G.S.R. 329(E) dated 13th 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.
- <u>E.2.0</u> Ambara Open Cast Mine of Western Coalfields Ltd. is situated in Pench Kanhan Valley Coalfield, which lies in Chhindwara District of Madhya Pradesh State.
- <u>E.3.0</u> 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.
- <u>E.4.0</u> 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.
- <u>E.5.0</u> Environmental Statement report reveals the following facts regarding environmental aspect of this project:
- $\underline{\text{E.5.1}}$ The concentration of SO₂, NO_x in ambient air in core zone is well within the permissible limits.
- <u>E.5.2</u> 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

<u>Table-A Water Consumption on Usage Pattern</u>

Sno.	Water Consumption Category	Quantity/usage (in KL/day)
a)	Industrial	
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)	Domestic	
i.	Domestic use	900 KL/day
ii.	Green Belt/Plantation	Nil
	TOTAL	1350 KL/day

Table-B Water Consumption against Production (including recycled)

Name of Product	Water Consumption per u	unit of product (including
	recycled)	
	During the previous FY	During the current FY 2020-
	2019-20	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 r	naterial per unit of
		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)	$1.015 \mathrm{Mm}^3$	$1.683~\mathrm{Mm}^3$		
b)	From Pollution Control Facilities	Nil	Nil		
c)	Quantity recycled or dumped within quarry void	1.015 Mm ³	1.683 Mm ³		
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. <u>NOISE POLLUTION CONTROL MEASURES</u>

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:

Sno.	Particulars	Amount
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

<u>Note: Air Polution Control Measures</u> <u>– (i.)</u> 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.

Any o	<u>PART-I</u> ther Particulars in respect of Environmental Protection and abatement of Pollution
zone a	egular monitoring of the ambient air and water quality is being done in and around coronal the quarterly monitoring report is submitted to the Madhya Pradesh State Pollution of 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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4	NOISE LEVEL DATA	5

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 contributes 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.),W0	CL(HQ), NAGPU	R	SAMPLE DESCRIPTION	AIR SAMPLE	
CUSTOMER LETTER REFE	RENCE NO.	WCL/HQ/ENV/	14-1/588-61	14-I/588-615 DATED: 15.06.20		
SPM: IS 5182 Part-4:1999(RA 2019 USEPA Quality Assurance guidance 5182 Part-06:2006(2017), SO ₂ :IS 52			dance docu	ment volume-II (part-II)-2	, , ,	
NAME OF AREA	KANHAN ARE	Ā		SAMPLING METHOD :LSOP 4		
NAME OF PROJECT	AMBARA OC	A OC		SAMPLING PLAN : LQR 47		

MANAGER OFFICE: KAOA1						
DATE OF	Р	PARAMETERS (24 hourly values in μg/m³)				
SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂	
DETECTION LIMIT	5	5	2	6	10	
15.05.2020	134	99	24	17	<10	
17.05.2020	112 79 26 15 11					
TLV	600	300	60	120	120	

PIT OFFICE- MOHAN: KAOA2							
DATE OF	Р	PARAMETERS (24 hourly values in μg/m³)					
SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO _X SO ₂					
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: KAOA3							
DATE OF	P	PARAMETERS (24 hourly values in μg/m³)					
SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO _X	SO ₂		
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	200 100 60 80 80					

AMBARA VILLAGE: KAOA4							
DATE OF	Р	PARAMETERS (24 hourly values in μg/m³)					
SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO _X SO ₂					
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						



DEEPANSHU SAHU AUTHORIZED SIGNATORY

This Report refers to the values related to the items tested

² This Report cannot be reproduced in part or full without written permission of the management.

NOISE LEVEL DATA

NAME OF AREA: KANHAN AREA YEAR: 2020 NAME OF PROJECT: AMBARA OC MONTH: MAY

	MANAGER OFFICE: KAON1					
MONTH	DATE OF DATA	NOISE LE	VEL IN dB(A)			
	COLLECTION		NIGHT TIME			
MAY-2020	13.05.2020	50.8	49.2			
MAY-2020	28.05.2020	52.4	49.7			
	TLV	75	70			

COLONY (MOHAN/MAORI): KAON2				
MONTH	DATE OF DATA	NOISE LE	VEL IN dB(A)	
	COLLECTION		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

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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4	AMBARA VILLAGE:	KAOA4

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SL. NO.	LOCATION DETAIL	LOCATION CODE
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Noise Level Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
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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.),WC	L(HQ), NAGPU	R	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFE	ERENCE NO. WCL/HQ/ENV/14-I/588-6			.5 DATED: 15.06.20	
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM USEPA Quality Assurance guidance doct 5182 Part-06:2006(2017), SO ₂ :IS 5182 P			ment volume-II (part-II)	•
NAME OF AREA	KANHAN AREA			SAMPLING METHOD :LSOP	4
NAME OF PROJECT	AMBARA OC			SAMPLING PLAN : LQR 47	

MANAGER OFFICE : KAOA1					
DATE OF	PARAMETERS (24 hourly values in μg/m³)				
SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
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	P	PARAMETERS (24 hourly values in μg/m³)			
SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO _X SO ₂			
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	P	PARAMETERS (24 hourly values in μg/m³)			
SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO _X SO ₂			
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	P	PARAMETERS (24 hourly values in μg/m³)			
SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO _X SO ₂			
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

¹ This Report refers to the values related to the items tested

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NOISE LEVEL DATA

NAME OF AREA: KANHAN AREA YEAR: 2020 NAME OF PROJECT: AMBARA OC MONTH: JUNE

MANAGER OFFICE: KAON1				
MONTH	DATE OF DATA	NOISE LEVEL IN dB(A)		
	COLLECTION	DAY TIME		
JUNE 2020	12-06-20	49.6		
JUNE 2020 25-06-20		49.8		
	TLV	75		

COLONY (MOHAN/MAORI): KAON2							
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)					
	COLLECTION	DAY TIME					
JUNE 2020	10-06-20	46.2					
JUNE 2020	26-06-20	46.5					
	TLV	55					

Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.			RIN/TR/JULY	RIN/TR/JULY-20/68 DATE OF ISSUE		DATE OF ISSUE	31.08.2020
NAME OF CUSTOMER		GM(ENV.), WCL(HQ), NAGPUR					
CUSTOMER LETTER REFERENCE NO.			WCL/HQ/EN	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20			
			, ,	•		006(RA 2017), PM2.5: USEPA 2 Part-06:2006(2017), SO ₂ :IS	• ,
NAME OF AREA	*		KANHAN SA		SAMPLING PLAN: LQR 47		
NAME OF PROJECT			AMBARA OC				
SAMPLE DESCRIPTION Air sample							
SAMPLING METHOD	: LSOP 4			=			

MANAGER OFFICE: KAOA1									
PARAMETERS (24 hourly values in µg/m³)							ENVIRONMENT		
DATE(dd:mm:yy)) OF SAMPLING SPM PM ₁₀ PM _{2.5} NO ₂				SO ₂	CONDITIONS				
FROM	TO	5	5 5 2 6 10				(Sky/Wind)		
17-Jul-20	18-Jul-20	85	68	27	13	<10	CLOUDY SKY, CALM		
STANDARDS FOR COA	600	300		100	400				
dt. 25 TH Sept	dt. 25 TH September 2000			-	120	120			

PIT OFFICE-MOHAN: KAUA2									
PARAMETERS (24 hourly values in µg/m³)									
DATE(dd:mm:yy)) OF SAMPLING SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂						SO ₂	CONDITIONS		
FROM	TO	5	5 5 2 6 10						
17-Jul-20	18-Jul-20	80	58	27	12	<10	CLOUDY SKY, CALM		
STANDARDS FOR COA	AL MINE, GSR 742(E),	500	200		420	420			
dt. 25 [™] Sept	ember 2000	600	300	-	120	120			

COLONY HEALTH CENTER: KMUA3									
DATE(dd:mm:yy)) OF SAMPLING PARAMETERS (24 hourly values in µg/m³)						ENVIRONMENT			
DATE(dd.IIIII.yy	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS			
FROM	TO	5	5	2	6	10	(Sky/Wind)		
16-Jul-20	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;;;u	DATE(dd:mm:yy)) OF SAMPLING PARAMETERS (24 hourly values in µg/m³)						ENVIRONMENT		
DATE(dd.IIIII.yy)) OF SAIVIPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂						
FROM	TO	5	5 5 2 6 10				(Sky/Wind)		
11-Jul-20	12-Jul-20	70	52	25	11	<10	CLOUDY SKY, CALM		
17-Jul-20	92	61	28	16	11	CLOUDY SKY, CALM			
NAAQS	NAAQS, 2009 - 100 60 80 80								

Analysed by

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CMPDI RI-IV, NAGPUR 1 of 3

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;;;u	A A OF SAMPLING	PARAMETERS	PARAMETERS (24 hourly values in μg/m³)					
DATE(dd:mm:yy))) OF SAIVIPLING	SPM	SPM PM ₁₀ PM _{2.5}					
FROM	TO	5	5 5 2					
16-Jul-20	17-Jul-20	116	76	49	CLOUDY SKY, CALM			

	PALACHAURI SIDINCKAOF2							
DATE/dd:mmun	ENVIRONMENT							
DATE(dd.iiiii.y)	DATE(dd:mm:yy)) OF SAMPLING SPM PM ₁₀ PM _{2.5}							
FROM	TO	5	5 5 2					
16-Jul-20	16-Jul-20 17-Jul-20 142 91 60							

CMPDI RI-IV, NAGPUR 2 of 3

NOISE LEVEL MONITORING DATA

NOISE POLLUTION (R	EGULATION AND CONTROL) RULES	75
JULY.2020	16-Jul-20	47.7
JULY.2020	15-Jul-20	49.7
	DETECTION LIMIT	20
MONTH	COLLECTION	DAY TIME
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)
	MANAGER OFFICE:	KAON1

	COLONY(MOHAN/MAORI):	KMUN2
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)
MONTH	COLLECTION	DAY TIME
	DETECTION LIMIT	20
JULY.2020	15-Jul-20	44.9
JULY.2020	16-Jul-20	45.4
	EGULATION AND CONTROL) RULES	55

CMPDI RI-IV, NAGPUR 3 of 3

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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

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Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



								1.7102
TEST REPORT NO.			RIN/TR/AUGU	JST-20/68		DATE OF ISSUE		30.09.2020
NAME OF CUSTOMER GM(ENV.), WCL(HQ), NAG			CL(HQ), NAGPU	L(HQ), NAGPUR				
CUSTOMER LETTER REFERENCE NO.			WCL/HQ/ENV	VCL/HQ/ENV/14-I/588-615 DATED: 15.06.20				
TEST REQUIRED SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-51			PM-10: IS-518	2 Part 23:20	06(RA 2017), PM2.5: L	JSEPA (Quality Assurance	
NAME OF AREA			KANHAN			SAMPLING PLAN : LQ	(R 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 va	llues in μg/m³)	ENVIRONMENT		
DATE(dd:mm:yy,	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS			
FROM	TO	5	5	2	6	10	(Sky/Wind)		
13.08.2020	13.08.2020 14.08.2020		52	22	15	BDL	Cloudy,Calm		
27.08.2020	27.08.2020 28.08.2020		48	25	14	BDL	Rainy, Calm		
STANDARDS FOR COAL MINE, GSR 742(E),		600	300		120	120			
dt. 25 [™] Sept	dt. 25 TH September 2000		300	-	120	120			

PIT OFFICE-MOHAN: KAUA2								
DATE(dd:mm:yy)) OF SAMPLING			ENVIRONMENT					
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS	
FROM	TO	5	5	2	6	10	(Sky/Wind)	
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),		600	200		120	120		
dt. 25 TH September 2000		600	300	-	120	120		

COLONY UP ALTH CENTED. VALUE								
COLONY HEALTH CENTER: KMUA3								
DATE(dd:mm:yy)) OF SAMPLING			ENVIRONMENT					
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS	
FROM	TO	5	5	2	6	10	(Sky/Wind)	
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			ENVIRONMENT					
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS	
FROM	TO	5	5	2	6	10	(Sky/Wind)	
13.08.2020	14.08.2020	87	55	33	11	BDL	Cloudy,Calm	
NAAQS, 2009		-	100	60	80	80		

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CMPDI RI-IV, NAGPUR 2 of 3

	MANAGER OFFICE:	KAON1
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)
MONTH	COLLECTION	DAY TIME
	DETECTION LIMIT	20
Aug-20	12.08.2020	47.7
Aug-20	27.08.2020	47.8
NOISE POLLUTION (R	EGULATION AND CONTROL) RULES	75

	COLONY(MOHAN/MAORI): KMUN2									
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)								
MONTH	COLLECTION	DAY TIME								
	DETECTION LIMIT	20								
Aug-20	12.08.2020	43.4								
Aug-20	27.08.2020	45.2								
NOISE POLLUTION (R	55									
	RULES									

CMPDI RI-IV, NAGPUR 3 of 3

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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

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Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TC-71

TEST REPORT NO.		RIN/TR/SEPTEMBER-20/68 DATE OF ISSUE 30.10.2020				
NAME OF CUSTOMER		GM(ENV.), WCL(HQ), NAGPUR				
CUSTOMER LETTER RE	FERENCE NO.	E NO. WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20				
TEST REQUIRED	UIRED SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assur					
NAME OF AREA		KANHAN		SAMPLING PLAN : LOR 47		

NAME OF AREA KANHAN SAMPLING PLAN : LC
NAME OF PROJECT AMBARA OC

SAMPLE DESCRIPTION Air sample

SAMPLING METHOD : LSOP 4

	MANAGER OFFICE: KAOA1									
DATE(dd:mm:yy)	DATE(dd:mm:yy)) OF SAMPLING PARAMETERS (24 hourly values in µg/m³) SPM PM ₁₀ PM ₂₅ NO ₂ SO ₂									
FROM	ТО	5 5 2 6 10				(Sky/Wind)				
10.09.20	11.09.20	74	56	29	16	BDL	CLEAR SKY,LIGHT BREEZE			
19.09.20	19.09.20 20.09.20			22	14	BDL	CLOUDY LIGHT BREEZE			
STANDARDS FOR CO. dt. 25 TH Sept	AL MINE, GSR 742(E), ember 2000	600	300	-	120	120				

		PIT O	FFICE-MOHAN:	KAUA2			
DATE/-1-1)) OF CANADIANC		PARAMETERS	(24 hourly va	llues in μg/m ³)	ENVIRONMENT
DATE(dd:mm:yy)) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS
FROM	TO	5	5	2	6	10	(Sky/Wind)
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
	AL MINE, GSR 742(E), tember 2000	600	300	-	120	120	

	COLONY HEALTH CENTER: KMUA3								
DATE/dd.ma.ma.u.m.	L) OF CANADIANC		PARAMETERS	(24 hourly va	llues in μg/m³)	ENVIRONMENT		
DATE(dd:mm:yy))) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS		
FROM	TO	5	5	2	6	10	(Sky/Wind)		
09.09.20	10.09.20	86	59	25	11	BDL	CLEAR SKY,LIGHT		
05.05.20	10.05.20	80	39	25	11	BDL	BREEZE		
20.09.20	21.09.20	79	79 51 30 14 BDL						
NAAQ	, 2009	-	100	60	80	80			

	AMBARA VILLAGE: KMUA4								
DATE/44	PARAMETERS (24 hourly values in µg/m³)						ENVIRONMENT		
DATE(da:mm:y	y)) OF SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂						
FROM	TO	5	5	2	6	10	(Sky/Wind)		
15.09.20	16.09.20	93	82	24	12	BDL	CLEAR,CALM		
16.09.20	16.09.20 17.09.20 82 71 27 10 BDL								
NAAC	NAAQS, 2009 - 100 60 80 80								

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CMPDI RI-IV, NAGPUR 2 of 3

	MANAGER OFFICE:	KAON1	
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)
MONTH	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
Sep-20	07.09.2020	51.4	50.2
Sep-20	22.09.2020	52.3	49.1
NOISE POLLUTION (R	EGULATION AND CONTROL)	75	70
	RULES	/5	70

COLONY(N	ионаn/maori):	KMUN2		
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)		
MONTH	COLLECTION	DAY TIME	NIGHT TIME	
	DETECTION LIMIT	20	20	
Sep-20	07.09.2020	48.9	40.6	
Sep-20	22.09.2020	49.8	41.7	
NOISE POLLUTION (R	EGULATION AND CONTROL)	55	45	
	RULES	3	Ş	

CMPDI RI-IV, NAGPUR 3 of 3

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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

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Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TC-710

TEST REPORT NO.	RIN/TR/OCTOBER-20/68			OBER-20/68		DATE OF ISSUE	30.11.2020	
NAME OF CUSTOMER	}		GM(ENV.), WCL(HQ), NAGPUR					
CUSTOMER LETTER R	EFERENCE N	10.	WCL/HQ/EN	V/14-I/588-615	DATED: 15.0	06.20		
TEST REQUIRED			1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance volume-II (part-II)-2.12:2016, NO $_2$: IS 5182 Part-06:2006(2017), SO $_2$: IS 5182 Part-2:2001(RA 201					
NAME OF AREA			KANHAN			SAMPLING PLAN : LQ	R 47	
NAME OF PROJECT	AME OF PROJECT AMBARA OC							
SAMPLE DESCRIPTION Air sample					•			
SAMPLING METHOD : LSOP 4				_				

	MANAGER OFFICE: KAOA1									
DATE/dd.mana.u.u.	I) OF CAMPLING		PARAMETERS	(24 hourly va	llues in μg/m³)	FNIVIDONIMENT			
DATE(dd:mm:yy))) OF SAIVIPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)			
FROM	TO	O 5 5 2 6 10				CONDITIONS (Sky) Willa)				
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 COA	600	300	-	120	120					

	PIT OFFICE-MOHAN: KAUA2								
DATE/-I-I	I OF CAMPLING		PARAMETERS	(24 hourly va	llues in μg/m³)	ENIVED ON MENT		
DATE(dd:mm:yy)) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)		
FROM	TO	5 5 2 6 10				CONDITIONS (Sky) Willu)			
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 CO.	600	200		120	120				
dt. 25 TH Sept	ember 2000	600	300	-	120	120			

		COLONY HE	ALTH CENTER:	KMUA3			
DATE/ d d)) OF CANADIJAIC		PARAMETERS	(24 hourly va	ilues in μg/m³)	5111/15 0111 15115
DATE(dd:mm:yy)) OF SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂			ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	5	5	2	6	10	CONDITIONS (Sky) Willa)
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
NAAQ	NAAQS, 2009 - 100 60 80 80						

	AMBARA VILLAGE: KMUA4								
DATE/- -	L) OF CANADIANC		PARAMETERS	(24 hourly va	llues in μg/m ³)			
DATE(dd:mm:yy)) OF SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂			ENVIRONMENT CONDITIONS (Sky/Wind)			
FROM	TO	5	5	2	6	10	CONDITIONS (Sky) Willa)		
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		
NAAQ:	5, 2009	-	100	60	80	80			

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CMPDI RI-IV, NAGPUR 2 of 4

FUGITIVE DUST MONITORING

TEST REQUIRED	82 Part-4:1999(RA 2019), locument volume-II (part-	PM-10: IS-5182 Part 23:2006(RA 2017) & PM2.5: USEPA Quality Assurance
CANADIE DECEDIDATION	 Air comple/Fugitive	

SAMPLE DESCRIPTION Air sample(Fugitive)

SAMPLING METHOD: LSOP 4

MANAGER OFFICE CHP: KAOF1							
DATE/ J.J	PARAMETERS (24 hourly values in µg/m³)						
DATE(dd:mm:yy) OF SAIVIPLING	SPM	PM _{2.5}	ENVIRONMENT 2.5 CONDITIONS (Sky/Wind)			
FROM	то	5	5	2	CONDITIONS (Sky) Willay		
03.10.20	04.10.20	122	87	55	LIGHT BREEZE/CLEAR SKY		

PALACHAURI SIDING KAOF2							
DATE(dd:mm:yy) OF SAMPLING PARAMETERS (24 hourly values in µg/m³)					ENVIRONMENT		
DATE(da:mm:y)) OF SAMPLING	SPM	SPM PM ₁₀ PM _{2.5}				
FROM	то	5	5	2	CONDITIONS (Sky/Wind)		
03.10.20	04.10.20	119	75	51	LIGHT BREEZE/CLEAR SKY		

Analysed by

Deepanshu sahu **Authorised Signatory**

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CMPDI RI-IV, NAGPUR 3 of 4

	MANAGER OFFICE:	KAON1	
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)
MONTH	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
Oct-20	09.10.20	51.4	50.2
Oct-20	21.10.20	52.3	51.6
,	EGULATION AND CONTROL) RULES	75	70

	COLONY(MOHAN/MAORI):	KMUN2			
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)			
MONTH	COLLECTION	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		
,	EGULATION AND CONTROL) RULES	55	45		

CMPDI RI-IV, NAGPUR 4 of 4

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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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Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.	REPORT NO.		RIN/TR/NOV-20/68		DATE OF ISSUE	31.12.2020
NAME OF CUSTOME	ME OF CUSTOMER GM(ENV.), WCL(HQ), NAGPUR			HQ), NAGPUR	<u>.</u>	·
CUSTOMER LETTER R	EFERENCE N	0.	WCL/HQ/ENV/14	4-I/588-615 DATE	D: 15.06.20	
TEST REQUIRED		1: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assuranc lance document volume-II (part-II)-2.12:2016, NO_2 : IS 5182 Part-06:2006(2017), SO_2 :IS 5182 Part-2:2001 7)				
NAME OF AREA	*		KANHAN		SAMPLING PLAN : LQI	R 47
NAME OF PROJECT			AMBARA OC		<u>, </u>	
SAMPLE DESCRIPTION Air sample						
SAMPLING METHOD : LSOP 4			<u>'</u>			

	MANAGER OFFICE: KAOA1							
DATE/dd:mm:n/)) OF SAMPLING		PARAMETERS	(24 hourly va	ilues in μg/m³)	ENVIRONMENT	
DATE(dd.IIIII.yy)) OF SAMPLING	SPM PM ₄₀ PM ₂₇ NO ₂ SO ₂				CONDITIONS (Sky/Wind)		
FROM	TO	5	5	2	6	10	CONDITIONS (Sky/ Willu)	
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),		600	300	_	120	120		
dt. 25 TH Sept	tember 2000	000	300		120	120		

	PIT OFFICE-MOHAN: KAUA2							
DATE(dd:mm:yy	/ / OE CAMPLING		PARAMETERS	(24 hourly va	ılues in μg/m³)	ENIVADONIA AENIT	
DATE(dd.IIIII.yy)) OF SAIVIPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂			ENVIRONMENT CONDITIONS (Sky/Wind)		
FROM	TO	5	5	2	6	10	CONDITIONS (Sky) Willay	
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),		600	200		120	120		
dt. 25 TH Sept	ember 2000	600	300	•	120	120		

		COLONY HE	ALTH CENTER:	KMUA3						
DATE(d d)		PARAMETERS	(24 hourly va	ilues in μg/m³)				
DATE(dd:mm:yy)) OF SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂			ENVIRONMENT CONDITIONS (Sky/Wind)				
FROM	TO	5	5	2	6	10	CONDITIONS (Sky) Willa)			
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			
NAAQ	S, 2009	-	100							

		AME	BARA VILLAGE:	KMUA4			
DATE/44	DATE(dd:mm:yy)) OF SAMPLING PARAMETERS (24 hourly values in µg/m³)						EAN AID CANA AFAIT
DATE(da:mm:y	()) OF SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂			ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	5	5	2	6	10	CONDITIONS (Sky) Willa)
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
NAAC	NAAQS, 2009 - 100 60 80 80						

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CMPDI RI-IV, NAGPUR 2 of 3

	MANAGER OFFICE:	KAON1			
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)			
MONTH	COLLECTION	DAY TIME	NIGHT TIME		
	DETECTION LIMIT	20	20		
NOV'20	6.11.20	52.8	49.3		
NOV'20	18.11.20	51.1	42.2		
•	EGULATION AND CONTROL) RULES	75	70		

	COLONY(MOHAN/MAORI):	KMUN2	
	DATE OF SAMPLE	NOISE LEVEL IN (dB(A)
MONTH	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
NOV'20	6.11.20	42.3	39.1
NOV'20	18.11.20	46.2	41.1
	EGULATION AND CONTROL) RULES	55	45

CMPDI RI-IV, NAGPUR 3 of 3

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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

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REGIONAL INSTITUTE-IV, KASTURBA NAGAR, JARIPATKA, NAGPUR, PIN – 440 014

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Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.	RIN/TR/DEC-20/68			10/68		DATE OF ISSUE	31.01.2021
NAME OF CUSTOMER	AME OF CUSTOMER GM(ENV.), WCL(HQ), NAGPU			, NAGPUR			
CUSTOMER LETTER R	EFERENCE N	Ю.	WCL/HQ/ENV	//14-I/588-615	DATED: 15.0	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 ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(R 2017)					•	
NAME OF AREA			KANHAN			SAMPLING PLAN : LQR	47
NAME OF PROJECT AMBARA OG		AMBARA OC		'			
SAMPLE DESCRIPTION Air sample							
SAMPLING METHOD : LSOP 4							

	MANAGER OFFICE: KAOA1							
DATE/dd) \ OF CAMPLING		PARAMETERS ((24 hourly va	ilues in μg/m³)	ENIVIDONIMENT.	
DATE(dd:mm:yy)) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	5	5	2	6	10	- CONDITIONS (Sky) Willa)	
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),		600	300	_	120	120		
dt. 25 TH Sept	ember 2000	330	330	_	120	120		

	PIT OFFICE-MOHAN: KAUA2							
DATE/dd.mama.u.u)		PARAMETERS	(24 hourly va	alues in μg/m³)	ENIVIDONINAENT.	
DATE(dd:mm:yy	syy)) OF SAMPLING SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂				ENVIRONMENT CONDITIONS (Sky/Wind)			
FROM	TO	5	5	2	6	10	CONDITIONS (Sky) Willu)	
4.12.20	5.12.20	199	126	34	12	BDL	Clear Sky / Clam	
18.12.20	18.12.20 19.12.20 212		151	30	11	BDL	Clear Sky / Clam	
STANDARDS FOR CO.	600	200		120	120			
dt. 25 TH Sept	tember 2000	600	300	-	120	120		

	COLONY HEALTH CENTER: KMUA3							
DATE/dd	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		PARAMETERS	(24 hourly va	lues in μg/m³)	5111 // D O 111 451 IT	
DATE(dd:mm:yy	DATE(dd:mm:yy)) OF SAMPLING SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂				ENVIRONMENT CONDITIONS (Sky/Wind)			
FROM	TO	5	5	2	6	10	CONDITIONS (Sky) Willa)	
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		
NAAQ	NAAQS, 2009 - 100 60 80 80							

	AMBARA VILLAGE: KMUA4							
DATE/dd.mama.u.u)		PARAMETERS	(24 hourly va	alues in μg/m³)	ENIVIDONIA (ENIT	
DATE(dd:mm:yy	DATE(dd:mm:yy)) OF SAMPLING SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂			ENVIRONMENT CONDITIONS (Sky/Wind)				
FROM	TO	5	5	2	6	10	CONDITIONS (Sky) Willa)	
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			60	80	80			

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CMPDI RI-IV, NAGPUR 2 of 3

	MANAGER OFFICE:	KAON1			
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)			
MONTH	COLLECTION	DAY TIME	NIGHT TIME		
	DETECTION LIMIT	20	20		
DEC'20	4.12.20	55.2	50.6		
DEC'20	18.12.20	50.6	40.2		
,	EGULATION AND CONTROL) RULES	75	70		

	COLONY(MOHAN/MAORI):	KMUN2			
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)			
MONTH	COLLECTION	DAY TIME	NIGHT TIME		
	DETECTION LIMIT	20	20		
DEC'20	4.12.2020	58.5	55.5		
DEC'20	18.12.2020	52.6	42.7		
`	EGULATION AND CONTROL) RULES	55	45		

CMPDI RI-IV, NAGPUR 3 of 3

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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

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REGIONAL INSTITUTE-IV, KASTURBA NAGAR, JARIPATKA, NAGPUR, PIN – 440 014

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Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.	TEST REPORT NO.		RIN/TR/JAN-21/68			DATE OF ISSUE	28.02.2021
NAME OF CUSTOMER GM(ENV.), W			CL(HQ), NAGPL	R		·	
CUSTOMER LETTER R	EFERENCE N	0.	WCL/HQ/EN\	//14-I/588-615	DATED: 15.0	6.20	
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance document volume-II (part-II)-2.12:2016, NO ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)				, ,		
NAME OF AREA	•		KANHAN			SAMPLING PLAN : LQ	R 47
NAME OF PROJECT AMBARA O		AMBARA OC					
SAMPLE DESCRIPTION Air sample							
SAMPLING METHOD : LSOP 4			1				

	MANAGER OFFICE: KAOA1							
DATE/- -	// OF CAMPLING		PARAMETERS	(24 hourly va	ılues in μg/m³))	ENIVED ON MENT	
DATE(dd:mm:yy)) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	5	5	2	6	10	CONDITIONS (Sky) Willa)	
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 CO	600	300		120	120			
dt. 25 TH Sept	ember 2000	600	300	-	120	120		

	PIT OFFICE-MOHAN: KAUA2							
DATE/- -	\ \ OF CAMPLING		PARAMETERS	(24 hourly va	ılues in μg/m³))	ENIVED ON MENT	
DATE(dd:mm:yy)) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	5	5	2	6	10	CONDITIONS (Sky) Willa)	
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),		600	200		120	120		
dt. 25 TH Sept	dt. 25 TH September 2000		300	-	120	120		

		COLONY H	EALTH CENTER:	KMUA3			
DATE/-1-1	PARAMETERS (24 hourly values in μg/m³)						
DATE(da:mm:y	y)) OF SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂			ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	5	5	2	6	10	CONDITIONS (Sky) Willa)
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/ did mana man)) OF CAMPLING		PARAMETERS	(24 hourly va	ilues in μg/m³))	5111115 611115				
DATE(dd:mm:yy	DATE(dd:mm:yy)) OF SAMPLING		PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)				
FROM	TO	5	5	2	6	10	CONDITIONS (Sky) Willa)				
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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CMPDI RI-IV, NAGPUR 2 of 5

FUGITIVE DUST MONITORING

TEST REQUIRED	SPM: IS 51	82 Part-4:19	999(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									
PARAMETERS (24 hourly values in μg/m³))	ENIVIDONIA FRIT				
DATE(dd:mm:y	y) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	ENVIRONMENT CONDITIONS (Sky/Wind)				
FROM	то	5	CONDITIONS (Sky) Willu)						
03.01.21	04.01.21	314	201	85	Cloudy/Clam				

PALACHURI SIDING KAUF2									
DATE/Advances NOT CAMPUNIC		PARAMETER	PARAMETERS (24 hourly values in μg/m³)						
DATE(da:mm:y	DATE(dd:mm:yy) OF SAMPLING				ENVIRONMENT CONDITIONS (Sky/Wind)				
		SPM	SPM PM ₁₀ PM _{2.5}						
FROM	то	5							
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									
	рН	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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CMPDI RI-IV, NAGPUR 3 of 5

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CMPDI RI-IV, NAGPUR 4 of 5

MANAGER OFFICE: KAON1									
	DATE OF SAMPLE	NOISE LEVEL IN (dB(A)						
MONTH	COLLECTION	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						
,	EGULATION AND CONTROL) RULES	75	70						

	COLONY(MOHAN/MAORI):	KMUN2	
	DATE OF SAMPLE	NOISE LEVEL IN (dB(A)
MONTH	COLLECTION	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
	EGULATION AND CONTROL) RULES	55	45

CMPDI RI-IV, NAGPUR 5 of 5

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ENVIRONMENTAL MONITORING REPORT

AMBARA OC

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



FRBRUARY 2021

Environment Laboratory

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Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.	EST REPORT NO.			21/68		DATE OF ISSUE	31.03.2021
NAME OF CUSTOME	₹		GM(ENV.), WCL(HQ), NAGPUR				
CUSTOMER LETTER R	EFERENCE N	Ю.	WCL/HQ/EN\	//14-I/588-615	DATED: 15.0	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_2 : IS 5182 Part-06:2006(2017), SO_2 : IS 5182 Part-2:2001 2017)					
NAME OF AREA	•		KANHAN			SAMPLING PLAN : LQR	47
NAME OF PROJECT			AMBARA OC		'		
SAMPLE DESCRIPTION Air sample							
SAMPLING METHOD : LSOP 4				1			

MANAGER OFFICE: KAOA1										
DATE/ALL)		PARAMETERS ((24 hourly va	ilues in μg/m³)	ENIVER CALLAGAIT			
DATE(dd:mm:yy)) OF SAMPLING		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)			
FROM	FROM TO		5	2	6	10	- CONDITIONS (Sky) Willu)			
01.02.2021	02.02.2021	347	203	36	17	14	Cloudy/Calm			
16.02.2021	16.02.2021 17.02.2021		215	41	16	11	Cloudy/Calm			
STANDARDS FOR COAL MINE, GSR 742(E),		500	200		420	420				
dt. 25 TH September 2000		600	300	-	120	120				

PIT OFFICE-MOHAN: KAUA2										
DATE/dd.mo.mo.u.u.		PARAMETERS ((24 hourly va	ilues in μg/m³)	ENIVIDONINAENT.				
DATE(dd:mm:yy)) OF SAMPLING		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)			
FROM	TO	5	5	2	6	10	CONDITIONS (Sky) Willay			
01.02.2021	02.02.2021	342	204	43	16	BDL	Cloudy/Calm			
16.02.2021	16.02.2021 17.02.2021		192	40	15	11	Cloudy/Calm			
STANDARDS FOR COAL MINE, GSR 742(E),		600	200		120	120				
dt. 25 TH September 2000		600	300	•	120	120				

		COLONY HE	ALTH CENTER:	KMUA3				
DATE/44	DATE(dd:mm:yy)) OF SAMPLING		PARAMETERS	(24 hourly va	alues in μg/m³)	END/IDONA/ENIT	
DATE(dd:mm:y	y)) OF SAIVIPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂		ENVIRONMENT CONDITIONS (Sky/Wind)			
FROM	ТО	5	5	2	6	10	CONDITIONS (Sky) Willu)	
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	
NAAC	(S, 2009	-	100	60	80	80		

	AMBARA VILLAGE: KMUA4							
			PARAMETERS	(24 hourly va	alues in μg/m³)	ENIVED ON MENT	
DATE(dd:mm:yy	DATE(dd:mm:yy)) OF SAMPLING		SPM PM ₁₀ PM _{2.5} NO ₂		SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)		
FROM	TO	5	5	2	6	10	CONDITIONS (Sky) Willa)	
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	
NAAQ	S, 2009	-	100	60	80	80		

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CMPDI RI-IV, NAGPUR 2 of 4

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		ANALYSIS RESULTS					
COLLECTION	рН	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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CMPDI RI-IV, NAGPUR 3 of 4

	MANAGER OFFICE:	KAON1	
	DATE OF SAMPLE	NOISE LEVEL IN (dB(A)
MONTH	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
,	EGULATION AND CONTROL) RULES	75	70

	COLONY(MOHAN/MAORI):	KMUN2	
	DATE OF SAMPLE	NOISE LEVEL IN (dB(A)
MONTH	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
•	EGULATION AND CONTROL) RULES	55	45

CMPDI RI-IV, NAGPUR 4 of 4

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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

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR, JARIPATKA, NAGPUR, PIN - 440 014

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Test Report



TEST REPORT NO.			RIN/TR/MAR-21/68			DATE OF ISSUE		27.04.2021	
NAME OF CUSTOMER			GM(ENV.), W	GM(ENV.), WCL(HQ), NAGPUR					
CUSTOMER LETTER RI	EFERENCE N	10.	WCL/HQ/EN\	//14-I/588-615	DATED: 15.0	6.20			
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-51: guidance document volume-II (part-II)-2.12:2016,					* **		•	
NAME OF AREA			KANHAN			SAMPLING PLAN : LQ	R 47		
NAME OF PROJECT	T		AMBARA OC						
SAMPLE DESCRIPTION	PLE DESCRIPTION Air sample				•				
SAMPLING METHOD :	LSOP 4	1PLING METHOD : LSOP 4		=					

	MANAGER OFFICE: KAOA1							
DATE/dd.mama.u.u.) \ OF CAMPLING		PARAMETERS	(24 hourly va	lues in μg/m³)	1	ENVIDONMENT	
DATE(dd:mm:yy)) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	5	5	2	6	10	CONDITIONS (Sky/Wind)	
02.03.2021	03.03.2021	255	172	39	13	BDL	Cloudy/Calm	
18.03.2021	18.03.2021 19.03.2021		183	43	11	BDL	Cloudy/Calm	
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120		
dt. 25 "Sept	tember 2000							

	PIT OFFICE-MOHAN: KAUA2							
DATE(dd:mm:yy	\ \ OE CAMPLING		PARAMETERS	(24 hourly va	lues in μg/m³)	1	ENVIRONMENT	
DATE(dd.IIIII.yy)) OF SAIVIPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS (Sky/Wind)	
FROM	TO	5	5	2	6	10	CONDITIONS (Sky/Wind)	
02.03.2021	03.03.2021	265	188	32	11	BDL	Cloudy/Calm	
18.03.2021	18.03.2021 19.03.2021		163	28	13	11	Cloudy/Calm	
STANDARDS FOR COAL MINE, GSR 742(E),		600	200		420	420		
dt. 25 [™] Sept	dt. 25 TH September 2000		300	-	120	120		

		COLONY HE	ALTH CENTER:	KMUA3			
DATE/dd:mm::u/)) OF SAMPLING		PARAMETERS	(24 hourly va	llues in μg/m³))	ENI//IDONIMENIT
DATE(dd.IIIII.yy)) OF SAIVIPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	5	5	2	6	10	CONDITIONS (Sky/ Willu)
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	

		AMI	BARA VILLAGE:	KMUA4			
DATE/dd:mm::u/)) OF SAMPLING		PARAMETERS	(24 hourly va	llues in μg/m ³)	ENVIRONMENT
DATE(dd.IIIII.yy)) OF SAIVIPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS (Sky/Wind)
FROM	TO	5	5	2	6	10	CONDITIONS (Sky/Willu)
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	

atimblume

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Authorised Signatory

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CMPDI RI-IV, NAGPUR 2 of 4

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	ANALYSIS RESULTS				
COLLECTION	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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CMPDI RI-IV, NAGPUR 3 of 4

	MANAGER OFFICE:	KAON1	
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)
MONTH	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
MAR'21	05.03.2021	50.7	47.6
MAR'21	22.03.2021	49.7	45.4
NOISE POLLUTION (F	NOISE POLLUTION (REGULATION AND CONTROL) RULES		70

	COLONY(MOHAN/MAORI):	KMUN2	
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)
MONTH	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
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

CMPDI RI-IV, NAGPUR 4 of 4

ENVIRONMENTAL AUDIT STATEMENT (FORM-V)

GHORAWARIOC PATCHES MINE

FY 2020-21

Prepared by-



WESTERN COALFIELDS LIMITED KANHAN AREA PO: DUNGARIA, CHHINDWARA (MP)-480553

INDEX

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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 13th 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_2 , NO_x 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** 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

Sno.	Water Consumption Category	Quantity/usage (in KL/day)
a)	Industrial	
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)	Domestic	
i.	Domestic use	200 KL/day
ii.	Green Belt/Plantation	Nil
	TOTAL	200 KL/day

Table-B Water Consumption against Production (including recycled)

Name of Product	Water Consumption per recycled)	unit of product (including
	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 n	naterial per unit of
		During the previous FY	C
		2019-20	FY 2020-21
Explosive (Kg/ton)	Coal	0.621	1.469
			Mine not operational
			since May 2020.

$\frac{PART-C}{Pollution\ discharged\ to\ Environment/unit\ of\ output\ (Parameters\ specified\ in\ the\ Consent\ issued)}$

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 ³	0.131 Mm^3
b)	From Pollution Control Facilities	Nil	Nil
c)	Quantity recycled or dumped within quarry void	0.290 Mm ³	0.131 Mm ³
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:

Sno.	Particulars	Amount
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

<u>Note: Air Polution Control Measures</u>—(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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4	NOISE LEVEL DATA	6

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.),W	CL(HQ), NAGPU	R	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO. WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20					
SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, I 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)			` ''		
NAME OF AREA	KANHAN AR	EA		SAMPLING METHOD: LSOP 4	
NAME OF PROJECT	GHORAWARI	OC		SAMPLING PLAN : LQR 47	

MANAGER OFFICE-OC: KGOA1						
DATE OF	P	PARAMETERS (24 hourly values in μg/m³)				
SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO _X SO ₂				
DETECTION LIMIT	5	5	2	6	10	
07.05.2020	65	39	17	10	<10	
17.05.2020	84 54 24 12 <10					
TLV	600	600 300 60 120 120				

9	SAM - OFFICE GHORAWARI : KGOA2				
DATE OF	P	PARAMETERS (24 hourly values in μg/m³)			
SAMPLING	SPM	SPM PM ₁₀ PM _{2,5} NO _X SO ₂			
DETECTION LIMIT	5	5	2	6	10
16.05.2020	91	49	17	7	<10
31.05.2020	110	79	22	8	<10
TLV	600	300	60	120	120

COLONY- HEALTH CENTRE JHARNA: KGOA3					
DATE OF	Р	ARAMETERS (2	4 hourly val	ues in μg/n	າ ³)
SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15.05.2020	70	39	20	9	<10
31.05.2020	78	42	25	10	<10
TLV	200	100	60	80	80

	PANARA VILLAGE: KGOA4					
DATE OF	PARAMETERS (24 hourly values in μg/m³)					
SAMPLING	SPM PM ₁₀ PM _{2.5} NO _X SO ₂					
DETECTION LIMIT	5	5 5 2 6 10				
16.05.2020	78	49	19	7	<10	
17.05.2020	66	47	23	8	<10	
TLV	200 100 60 80 80					

SCIENTIFIC ASSISTANT

DEEPANSHU SAHU AUTHORIZED SIGNATORY

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FUGITIVE DUST MONITORING DATA

WEIGHT BRIDGE :KGOF1						
DATE OF	DATE OF PARAMETERS (24 hourly values in μg/m³)					
SAMPLING	SPM PM10 PM _{2.5}					
DETECTION LIMIT	IIT 5 5 2					
31.05.2020	103	103 80 22				

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DEEPANSHU SAHU AUTHORIZED SIGNATORY

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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 LE	VEL IN dB(A)		
	COLLECTION	DAY TIME	NIGHT TIME		
MAY-2020	13.05.2020	47.2	44.6		
MAY-2020 28.05.2020		46.2	43.1		
TLV		75	70		

COLONY (JHARNA UG) KGON2					
MONTH			VEL IN dB(A)		
	COLLECTION	DAY TIME	NIGHT TIME		
MAY-2020	13.05.2020	44.6	42.9		
MAY-2020	28.05.2020	45.6	44.4		
	TLV	55	45		

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ENVIRONMENTAL MONITORING REPORT

GHORAWARI OC

KANHAN AREA

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Environment Laboratory **CMPDI**

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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

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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.

CMPDI RI-IV, NAGPUR

3

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), NAGPU	R	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO. WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20				
SPM: IS 5182 Part-4:1999(RA 2019), P USEPA Quality Assurance guidance do 5182 Part-06:2006(2017), SO ₂ :IS 5182			ment volume-II (part-II)-2.	• •
NAME OF AREA	KANHAN AREA		SAMPLING METHOD: LSOP 4	
NAME OF PROJECT	GHORAWARI OC		SAMPLING PLAN: LQR 47	

MANAGER OFFICE-OC: KGOA1								
DATE OF	Р	ARAMETERS (2	4 hourly val	ues in μg/m	1 ³)			
SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO _X SO ₂						
DETECTION LIMIT	5	5 5 2 6 10						
13-06-20	82	82 62 27 11 <10						
27-06-20	76	76 59 21 13 10						
TLV	600	300	60	120	120			

	SAM - OFFICE GHORAWARI : KGOA2								
DATE OF	TE OF PARAMETERS (24 hourly values in μg/m³)								
SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO _X SO ₂							
DETECTION LIMIT	5	5 5 2 6 10							
13-06-20	82	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	Р	PARAMETERS (24 hourly values in μg/m³)								
SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO _X SO ₂								
DETECTION LIMIT	5	5 5 2 6 10								
13-06-20	70	70 42 19 8 <10								
27-06-20	61 49 17 11 10									
TLV	200	100	60							

PANARA VILLAGE: KGOA4								
DATE OF	PARAMETERS (24 hourly values in μg/m³)							
SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO _x SO ₂						
DETECTION LIMIT	5	5 5 2 6 10						
13-06-20	73	73 47 21 10 <10						
27-06-20	67	67 53 23 10 <10						
TLV	200							

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NOISE LEVEL DATA

NAME OF AREA: KANHAN AREA YEAR: 2020 NAME OF PROJECT: GHORAWARI OC MONTH: JUNE

MANAGER OFFICE: KGON1					
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)			
	COLLECTION	DAY TIME			
JUNE 2020	15-06-20	52.2			
JUNE 2020 26-06-20		52.8			
TLV		75			

	COLONY (JHARNA UG) KGON2					
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)				
	COLLECTION	DAY TIME				
JUNE 2020	12-06-20	46.8				
JUNE 2020	17-06-20	42.2				
	TLV	55				

Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.			RIN/TR/JULY	-20/73	DATE	OF ISSUE	31.08.2020
NAME OF CUSTOMER GM(EN			GM(ENV.), W	VCL(HQ), NAGPL	IR		
CUSTOMER LETTER REFERENCE NO. WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20							
SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part-4:1999(RA 2019), PM-10: IS-518			•	,,	• •		
NAME OF AREA			KANHAN		SAN	MPLING PLAN : LQR	R 47
NAME OF PROJECT			GHORAWAR	I OC	<u>, </u>		
SAMPLE DESCRIPTION Air sample							
SAMPLING METHOD : LSOP 4				-			

MANAGER OFFICE-OC: KGOA1								
DATE(dd:mm:yy	/ / OE SAMBLING		PARAMETERS (24 hourly values in μg/m³)					
DATE(dd.iiiii.yy	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS		
FROM	TO	5	5	2	6	10	(Sky/Wind)	
29-Jul-20	29-Jul-20 30-Jul-20		52	28	12	<10	CLOUDY SKY.CALM	
STANDARDS FOR COAL MINE, GSR 742(E),		500	200		420	420		
dt. 25 TH September 2000		600	300	-	120	120		

SAM-OFFICE GHORAWARI: KJUA2									
DATE(dd:mm:yy)) OE SAMBLING		PARAMETERS (24 hourly values in μg/m³)						
DATE(dd.iiiii.yy	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS			
FROM	TO	5	5	2	6	10	(Sky/Wind)		
15-Jul-20	16-Jul-20	94	53	22	16	11	RAINY, CALM		
28-Jul-20	28-Jul-20 29-Jul-20		43	27	15	<10	CLOUDY SKY, CALM		
STANDARDS FOR COAL MINE, GSR 742(E),		600	200		420	420			
dt. 25 TH Sept	dt. 25 TH September 2000		300	-	120	120			

	COLONY-HEALTH CENTER JHARNA: KJUA3								
DATE/dd:mm;;;u	PARAMETERS (24 hourly values in μg/m³)					ENVIRONMENT			
DATE(dd.iiiii.yy	DATE(dd:mm:yy)) OF SAMPLING		PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS		
FROM	TO	5	5	2	6	10	(Sky/Wind)		
29-Jul-20	30-Jul-20	85 59		30	14	<10	CLOUDY SKY, CALM		
NAAQS	-	100	60	80	80				

PANARA VILLAGE: KJUA4									
DATE/dd:mm:w/		PARAMETERS (24 hourly values in μg/m³)							
DATE(dd.IIIII.yy	DATE(dd:mm:yy)) OF SAMPLING		PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS		
FROM	TO	5	5	2	6	10	(Sky/Wind)		
29-Jul-20	30-Jul-20	71	47	29	11	<10	CLOUDY SKY, CALM		
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 guidance document volume-II (part-II)-2.12:2016

SAMPLE DESCRIPTION

Air sample(Fugitive)

SAMPLING METHOD : LSOP 4

WEIGHING BRIDG KGOF1									
DATE/dd:mm:un	A)) OF CAMPLING	PARAMETERS	(24 hourly values in μg/m	ENVIRONMENT					
DATE(dd:mm:yy)) OF SAMPLING	SPM PM ₁₀ PM			CONDITIONS				
FROM	TO	5	5 5						
29-Jul-20	30-Jul-20	125	83	53	CLOUDY SKY, CALM				

NOISE LEVEL MONITORING DATA

	MANAGER OFFICE:	KGON1
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)
MONTH	COLLECTION	DAY TIME
	DETECTION LIMIT	20
JULY.2020	15-Jul-20	48.9
JULY.2020	29-Jul-20	46.6
`	EGULATION AND CONTROL) RULES	75

	COLONY(JHARNA):	KJUN2
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)
MONTH	COLLECTION	DAY TIME
	DETECTION LIMIT	20
JULY.2020	15-Jul-20	44.2
JULY.2020	28-Jul-20	44.7
1	EGULATION AND CONTROL) RULES	55

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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

Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST_REPORT NO.		RIN/TR/AUGU	R/AUGUST-20/73		DATE OF ISSUE	30	0.09.2020	
NAME OF CUSTOMER			GM(ENV.), W	GM(ENV.), WCL(HQ), NAGPUR				
CUSTOMER LETTER REFERENCE NO. WCL			WCL/HQ/ENV	//14-I/588-615	DATED: 15.0	6.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance					ality Assurance		
NAME OF AREA			KANHAN			SAMPLING PLAN : LQR	47	
NAME OF PROJECT			GHORAWARI	ОС				
SAMPLE DESCRIPTION Air sample								
SAMPLING METHOD : LSOP 4				<u>-</u> '				

MANAGER OFFICE-OC: KGOA1								
DATE(dd:mm:yy)) OF SAMPLING			PARAMETERS (24 hourly values in μg/m³)					
DATE(dd:mm:yy)	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS		
FROM	ТО	5	5	2	6	10	(Sky/Wind)	
12.08.2020	13.08.2020	75	62	34	14	BDL	RAINY, CALM	
27.08.2020	28.08.2020	71	53	30	12	BDL	RAINY, CALM	
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120		

SAM-OFFICE GHORAWARI: KJUA2								
DATE(dd:mm:yy)) OF SAMPLING			ENVIRONMENT					
DATE(dd:mm:yy)	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS		
FROM	TO	5	5	2	6	10	(Sky/Wind)	
11.08.2020	12.08.2020	88	50	34	15	BDL	RAINY, CALM	
26.08.2020	26.08.2020 27.08.2020		62	31	16	13	Cloudy, Calm	
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120		

COLONY-HEALTH CENTER JHARNA: KJUA3								
DATE/dd.mo.mo.u.u./	A A OF CAMPLING		PARAMETERS (24 hourly values in μg/m³)					
DATE(dd:mm:yy)) OF SAMPLING SPI			PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS	
FROM	TO	5	5	2	6	10	(Sky/Wind)	
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/ddamana.uu		PARAMETERS (24 hourly values in μg/m ³)				ENVIRONMENT		
DATE(dd:mm:yy))) OF SAIVIPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS	
FROM	TO	5	5	2	6	10	(Sky/Wind)	
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
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)
MONTH	COLLECTION	DAY TIME
	DETECTION LIMIT	20
Aug-20	11.08.2020	44.2
Aug-20	26.8.2020	49.7
NOISE POLLUTION (R	75	
	RULES	75

	COLONY(JHARNA):	KJUN2
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)
MONTH	COLLECTION	DAY TIME
	DETECTION LIMIT	20
Aug-20	11.8.2020	44.7
Aug-20	25.8.2020	43.9
,	EGULATION AND CONTROL) RULES	55

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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

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REGIONAL INSTITUTE-IV, KASTURBA NAGAR, JARIPATKA, NAGPUR, PIN – 440 014

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Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



I	507 05007 110					I	
TEST_REPORT NO.	EST_REPORT NO.			EMBER-20/73		DATE OF ISSUE	30.10.2020
NAME OF CUSTOMER	₹		GM(ENV.), W	CL(HQ), NAGPU	JR		
CUSTOMER LETTER R	EFERENCE N	10.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20				
TEST REQUIRED	TEST REQUIRED SPM: IS 5182 Part-4:1999(RA 20			, PM-10: IS-518	2 Part 23:200	06(RA 2017), PM2.5: US	EPA Quality Assurance
NAME OF AREA			KANHAN			SAMPLING PLAN : LQR	47
NAME OF PROJECT			GHORAWARI	OC			
SAMPLE DESCRIPTION Air sample							
SAMPLING METHOD : LSOP 4				_			

		MANAG	ER OFFICE-OC:	KGOA1			
DATE/dd.mo.mo.v.a./		PARAMETERS	(24 hourly va	llues in μg/m ³)	ENVIRONMENT	
DATE(dd:mm:yy)) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS
FROM	TO	5	5	2	6	10	(Sky/Wind)
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 COA dt. 25 TH Sept	600	300	-	120	120		

		SAM-OFFICE	GHORAWARI:	KJUA2			
DATE(/ OE CANABILING		PARAMETERS	(24 hourly va	llues in μg/m ³)	ENVIRONMENT
DATE(dd:mm:yy)) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂ SO ₂		CONDITIONS
FROM	TO	5	5	2	6	10	(Sky/Wind)
08.09.20	09.09.20	105	58	28	14	BDL	CLEAR LIGHT BREEZ
21.09.20	22.09.20	95	67	34	10	BDL	CLEAR CALM
STANDARDS FOR COA	600	300	-	120	120		

	COLONY-HEALTH CENTER JHARNA: KJUA3							
DATE (dd. mama u u v)	\ OF CAMPLING		PARAMETERS	(24 hourly va	llues in μg/m³)	ENVIRONMENT	
DATE(dd:mm:yy)) OF SAIVIPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂				CONDITIONS	
FROM	TO	5	5	2	6	10	(Sky/Wind)	
09.09.20	10.09.20	107	66	30	13	BDL	CLEAR LIGHT BREEZE	
20.09.20	20.09.20 21.09.20 91 58				11	BDL	CLOUDY CALM	
NAAQS	, 2009	-	100	60	80	80		

		PAI	NARA VILLAGE:	KJUA4			
DATE/ddamana.uu	A OF CAMPLING		PARAMETERS	(24 hourly va	llues in μg/m³)	ENVIRONMENT
DATE(dd:mm:yy))) OF SAIVIPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂				CONDITIONS
FROM	TO	5	5	2	2 6		(Sky/Wind)
09.09.20	10.09.20	112	75	24	12	BDL	CLEAR LIGHT BREEZE
20.09.20	21.09.20	101	101 66 21 10 BDL				
NAAQ	5, 2009	-	100	60	80	80	

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NOISE LEVEL MONITORING DATA

	MANAGER OFFICE:	KGON1		
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)	
MONTH	COLLECTION	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	
NOISE POLLUTION (R	EGULATION AND CONTROL)			
	RULES	75	70	

	COLONY(JHARNA):	KGON2			
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)		
MONTH	COLLECTION	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		
,	EGULATION AND CONTROL) RULES	55	45		

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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

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REGIONAL INSTITUTE-IV, KASTURBA NAGAR, JARIPATKA, NAGPUR, PIN – 440 014

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Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.		RIN/TR/OCTOBER-20/73			DATE OF ISSUE	30.11.2020	
NAME OF CUSTOME	:R		GM(ENV.), WCL(HQ), NAGPUR				
CUSTOMER LETTER	REFERENCE N	IO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20				
TEST REQUIRED			-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance int volume-II (part-II)-2.12:2016, NO $_2$: IS 5182 Part-06:2006(2017), SO $_2$:IS 5182 Part-2:2001				
NAME OF AREA			KANHAN		SAMPLING PLAN : LQ	R 47	
NAME OF PROJECT	NAME OF PROJECT GHORAWARI OC			I OC			
SAMPLE DESCRIPTION	CRIPTION Air sample						
SAMPLING METHOD : LSOP 4				_			

	MANAGER OFFICE-OC: KGOA1									
DATE/ddamana uni	I OF CAMPLING		PARAMETERS	(24 hourly va	alues in μg/m³)	ENVIRONMENT			
DATE(dd:mm:yy)) OF SAMPLING	OF SAMPLING SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂				CONDITIONS				
FROM	TO	5	5	2	6	10	(Sky/Wind)			
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 COA	600	300	-	120	120					

	SAM-OFFICE GHORAWARI: KJUA2									
DATE/ddummmuu	A A OF CAMPLING		PARAMETERS	(24 hourly va	alues in μg/m³)	ENVIRONMENT			
DATE(dd:mm:yy)) OF SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂							
FROM	TO	5	5	2	6	10	(Sky/Wind)			
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 CO. dt. 25 TH Sept	600	300	-	120	120					

	COLONY-HEALTH CENTER JHARNA: KJUA3						
DATE/-I-I	PARAMETERS (24 hourly values in µg/m³)						
DATE(da:mm:y	y)) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS
FROM	TO	5	5	2	6	10	(Sky/Wind)
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
NAAC	QS, 2009	-	100	60	80	80	

	PANARA VILLAGE: KJUA4						
DATE/ddamara.u.u.	L) OF CAMPUNIC		PARAMETERS (24 hourly values in μg/m ³)				
DATE(dd:mm:yy)) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS
FROM	TO	5	5	2	6	10	(Sky/Wind)
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
NAAQ	5, 2009	-	100	60	80	80	

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FUGITIVE DUST MONITORING

TEST REQUIRED	PM: 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	-) OF CANADURIC	PARAMETERS (24 hourly values in μg/m ³				
DATE(dd:mm:y)	/) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	ENVIRONMENT		
FROM	то	5	5	2	CONDITIONS (Sky/Wind)		
03.10.20	04.10.20	130	88	53	LIGHT BREEZE/CLEAR SKY		

Analysed by

Deepanshu sahu **Authorised Signatory**

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NOISE LEVEL MONITORING DATA

	MANAGER OFFICE:	KGON1		
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)		
MONTH	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	
,	EGULATION AND CONTROL) RULES	75	70	

	COLONY(JHARNA):	KGON2			
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)		
MONTH	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		
•	EGULATION AND CONTROL) RULES	55	45		

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ENVIRONMENTAL MONITORING REPORT

GHORAWARI OC

KANHAN AREA 2

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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REGIONAL INSTITUTE-IV, KASTURBA NAGAR, JARIPATKA, NAGPUR, PIN – 440 014

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Test Report



TEST_REPORT NO.			RIN/TR/NOV-	-20/73		DATE OF ISSUE		31.12.2020	
			<u> </u>	M(ENV.), WCL(HQ), NAGPUR					
CUSTOMER LETTER	REFERENCE N	NO.	WCL/HQ/EN\	//14-I/588-615	DATED: 15.	06.20			
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-518 guidance document volume-II (part-II)-2.12:2016, 2017)				, ,,		• •		
NAME OF AREA	· ·		KANHAN	(ANHAN SAMPLING PLAN : LQR 47					
NAME OF PROJECT		GHORAWARI	GHORAWARI OC				_		
SAMPLE DESCRIPTION Air sample		!		II					
SAMPLING METHO	D : LSOP 4			•					

	MANAGER OFFICE-OC: KGOA1						
DATE/dd:mm:w/	/ / OE SAMBLING	PARAMETERS (24 hourly values in μg/m³)					ENVIRONMENT
DATE(dd:mm:yy)) OF SAMPLING		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS
FROM	ТО	5	5	2	6	10	(Sky/Wind)
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),		600	200		420	420	
dt. 25 TH Sept	ember 2000	600	300	•	120	120	

	SAM-OFFICE GHORAWARI: KJUA2						
DATE(dd:mm:yy	\ \ OF SAMPLING	PARAMETERS (24 hourly values in μg/m³)					ENVIRONMENT
DATE(dd.IIIII.yy)) OF SAIVIPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS
FROM	TO	5	5	2	6	10	(Sky/Wind)
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 TH September 2000		600	300	-	120	120	

	COLONY-HEALTH CENTER JHARNA: KJUA3						
DATE/dd.momo.u.u	PARAMETERS (24 hourly values in µg/m³)						ENVIRONMENT
DATE(dd:mm:y	DATE(dd:mm:yy)) OF SAMPLING		PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS
FROM	TO	5	5	2	6	10	(Sky/Wind)
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
NAAC	S, 2009	-	100	60	80	80	

	PANARA VILLAGE: KJUA4						
DATE/dd:mmuu)) OF SAMPLING		PARAMETERS (24 hourly values in μg/m³)				ENVIRONMENT
DATE(dd.IIIII.yy)) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS
FROM	TO	5	5	2	6	10	(Sky/Wind)
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
NAAQ	5, 2009	-	100	60	80	80	

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NOISE LEVEL MONITORING DATA

	MANAGER OFFICE:	KGON1		
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)	
MONTH	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	
`	EGULATION AND CONTROL) RULES	75	70	

	COLONY(JHARNA):	KGON2			
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)			
MONTH	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		
NOISE POLLUTION (R	EGULATION AND CONTROL)	55	45		
	RULES	33	45		

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ENVIRONMENTAL MONITORING REPORT

GHORAWARI OC

KANHAN AREA 2

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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Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TECT DEPONT NO			RIN/TR/DEC-2	20/72		DATE OF ICCUIE		24 04 2024
TEST_REPORT NO.	TEST REPORT NO. RIN/TR/DE			20/73		DATE OF ISSUE		31.01.2021
NAME OF CUSTOMER GM(ENV.), W			CL(HQ), NAGPL	JR				
CUSTOMER LETTER REFERENCE NO. WCL			WCL/HQ/EN\	//14-I/588-615	DATED: 15.0	06.20		
TEST REQUIRED		SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 guidance document volume-II (part-II)-2.12:2016, NG 2017)				, ,,		• •
NAME OF AREA	•		KANHAN			SAMPLING PLAN : LQ	R 47	
NAME OF PROJECT		GHORAWARI OC					_	
SAMPLE DESCRIPTION Air sample		!		1				
SAMPLING METHOL	D : LSOP 4			_				

	MANAGER OFFICE-OC: KGOA1								
DATE/dd.mama.u.u.		PARAMETERS	(24 hourly va	ılues in μg/m³)	ENVIRONMENT			
DATE(dd:mm:yy)) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS		
FROM	ТО	5	5	2	6	10	(Sky/Wind)		
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 TH September 2000		600	300	1	120	120			

	SAM-OFFICE GHORAWARI: KJUA2								
DATE(dd:mm:yy		PARAMETERS (24 hourly va	ilues in μg/m³)	ENVIRONMENT			
DATE(dd.IIIII.yy	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS			
FROM	TO	5	5	2	6	10	(Sky/Wind)		
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 TH September 2000		600	300	-	120	120			

	COLONY-HEALTH CENTER JHARNA: KJUA3									
PARAMETERS (24 hourly values in μg/m³)						ENVIRONMENT				
DATE(dd:mm:y	DATE(dd:mm:yy)) OF SAMPLING			PM _{2.5}	NO ₂	SO ₂	CONDITIONS			
FROM	TO	5	5	2	6	10	(Sky/Wind)			
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:mmuu)) OF SAMPLING		PARAMETERS	(24 hourly va	ilues in μg/m³)	ENVIRONMENT		
DATE(dd.IIIII.yy)) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS		
FROM	TO	5	5	2	6	10	(Sky/Wind)		
5.12.20	6.12.20	99	65	22	11	BDL	Clear Sky / Clam		
19.12.20	19.12.20 20.12.20		88	26	12	BDL	Clear Sky / Clam		
NAAQ	-	100	60	80	80				

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NOISE LEVEL MONITORING DATA

	MANAGER OFFICE:	KGON1			
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)			
MONTH	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		
`	EGULATION AND CONTROL) RULES	75	70		

	COLONY(JHARNA):	KGON2			
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)			
MONTH	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		
NOISE POLLUTION (R	EGULATION AND CONTROL)	55	4.5		
	RULES	22	45		

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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

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Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.			RIN/TR/JAN-	21/73	DATE OF ISSUE	28.02.2021		
NAME OF CUSTOMER GM(ENV.), WCL(HQ), NAGP			/CL(HQ), NAGPU	AGPUR				
CUSTOMER LETTER REFERENCE NO. WCL,			WCL/HQ/EN	V/14-I/588-615	DATED: 15.06.20			
TEST REQUIRED			` '	2 Part 23:2006(RA 2017), PM2.5: U NO ₂ : IS 5182 Part-06:2006(2017), So	• •			
NAME OF AREA			KANHAN		SAMPLING PLAN : LQR	47		
NAME OF PROJECT		GHORAWARI OC		·				
SAMPLE DESCRIPT	ION	Air sample)					
SAMPLING METHOD : I SOP 4			_					

	MANAGER OFFICE-OC: KGOA1								
DATE/dd:mm:uu	A A OF SAMPLING		PARAMETERS	(24 hourly va	ilues in μg/m³)	ENVIRONMENT		
DATE(dd:mini:yy)) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS		
FROM	то	5	5	2	6	10	(Sky/Wind)		
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 CO. dt. 25 TH Sept	600	300	-	120	120				

	SAM-OFFICE GHORAWARI: KJUA2								
DATE/dd.mo.mo.u.u.		PARAMETERS	24 hourly va	llues in μg/m³)	ENVIRONMENT			
DATE(dd:mm:yy	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS			
FROM	TO	5	5	2	6	10	(Sky/Wind)		
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 CO. dt. 25 TH Sept	600	300	-	120	120				

	COLONY-HEALTH CENTER JHARNA: KJUA3									
DATE(dd:mm:yy)) OF SAMPLING PARAMETERS (24 hourly values in µg/m³)						ENVIRONMENT				
DATE(da:mm:y	/)) OF SAMPLING	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂				CONDITIONS				
FROM	TO	5	5	2	6	10	(Sky/Wind)			
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			
NAAC	NAAQS, 2009 - 100 60 80 80									

	PANARA VILLAGE: KJUA4								
DATE/dd.momo.u.u.)) OF CANADLING		PARAMETERS (24 hourly values in μg/m ³)						
DATE(dd:mm:yy	DATE(dd:mm:yy)) OF SAMPLING			PM _{2.5}	NO ₂	SO ₂	CONDITIONS		
FROM	TO	5	5	2	6	10	(Sky/Wind)		
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		
NAAQ	5, 2009	-	100	60	80	80			

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FUGITIVE DUST MONITORING

TEST REQUIRED			, ,,	, PM-10: IS-5182 Part 23:2006(RA 2017) & PM2.5: USEPA Quality Assurance -II)-2.12:2016
SAMPLE DESCRIPTION Air sample			(Fugitive)	
SAMPLING METHOD : LPS 4				

	KAUF1							
		PARAMETER						
DATE(dd:mm:yy) OF SAMPLING					ENVIRONMENT CONDITIONS			
		SPM	PM ₁₀	PM _{2.5}	(Sky/Wind)			
FROM	то	5	5	2				
04.01.2021	05.01.2021	334	222	88	Clear Sky / Clam			

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SAMPLE DESCRIPTION	Water sam	Water sample							
Test Required	pH: IS 302	5 -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		ANALYSI	S RESULTS					
COLLECTION	pН	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	BDL						
STANDARDS FOR COAL								
MINE, GSR 742E, dt.	5.5 - 9.0	100	250	10				
25/09/2000								

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NOISE LEVEL MONITORING DATA

	MANAGER OFFICE:	KGON1	
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)
MONTH	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
NOISE POLLUTION (R	EGULATION AND CONTROL)	75	70
	RULES	/5	70

	COLONY(JHARNA):	KGON2	
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)
MONTH	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
•	EGULATION AND CONTROL) RULES	55	45

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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

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Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.		RIN/TR/FEB-21/73 DATE OF ISS			DATE OF ISSUE	31.03	3.2021	
NAME OF CUSTOME	ME OF CUSTOMER GM(ENV.), WCL(HQ), NAGPUR				JR			
CUSTOMER LETTER	REFERENCE	NO.	WCL/HQ/EN	V/14-I/588-615	DATED: 15.06	5.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Paguidance document volume-II (part-II)-2.12:2016, NO $_2$ 2017)				, ,,	-	,	
NAME OF AREA			KANHAN			SAMPLING PLAN : LC	QR 47	
NAME OF PROJECT GHOR			GHORAWARI	I OC				
SAMPLE DESCRIPTION Air sample			2		4			
SAMPLING METHOD : LSOP 4								

	MANAGER OFFICE-OC: KGOA1								
DATE/dd.mo.mo.u.u.)) OF CAMPLING		PARAMETERS	(24 hourly va	alues in μg/m³)	ENVIRONMENT		
DATE(dd:mm:yy	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS			
FROM	FROM TO		5	2	6	10	(Sky/Wind)		
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 TH September 2000		600	300	-	120	120			

	SAM-OFFICE GHORAWARI: KJUA2								
DATE/dd.mo.mo.u.u.	/ / OE CAMPLING		PARAMETERS	(24 hourly va	alues in μg/m³)	ENVIRONMENT		
DATE(dd:mm:yy	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS			
FROM	5	5	2	6	10	(Sky/Wind)			
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 TH September 2000		600	300	-	120	120			

	COLONY-HEALTH CENTER JHARNA: KJUA3									
DATE/dd.mom.u.u.)) OF CAMPLING		PARAMETERS (24 hourly values in μg/m³)							
DATE(dd:mm:yy	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS				
FROM	TO	5	5	2	6	10	(Sky/Wind)			
03.02.2021	03.02.2021 04.02.2021		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.mama.uu	DATE(dd:mm:yy)) OF SAMPLING PARAMETERS (24 hourly values in µg/m³)						ENVIRONMENT		
DATE(dd:mm:yy	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS			
FROM	TO	5	5	2	6	10	(Sky/Wind)		
02.02.2021	03.02.2021	127	86	30	11	BDL	Cloudy/Calm		
17.02.2021	131	92	27	10	BDL	Cloudy/Calm			
NAAQ	5, 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		ANALYSI	S RESULTS			
COLLECTION	pH TSS (in mg/l) COD(in mg/l) O & G(in mg/					
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		
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)	
MONTH	COLLECTION	DAY TIME	NIGHT TIME	
	DETECTION LIMIT	20	20	
FEB'21	04.02.2021	47.4	44.8	
FEB'21	19.02.2021	46.9	44.4	
	ON (REGULATION AND TROL) RULES	75	70	

	COLONY(JHARNA):	KGON2		
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)	
MONTH	COLLECTION	DAY TIME	NIGHT TIME	
	DETECTION LIMIT	20	20	
FEB'21	04.02.2021	44.9	42.7	
FEB'21	19.02.2021	45.4	43.5	
	ON (REGULATION AND TROL) RULES	55	45	

CMPDI RI-IV, NAGPUR 4 of 4

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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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Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.	T REPORT NO.		RIN/TR/MAR-21/73			DATE OF ISSUE		28.04.2021
NAME OF CUSTOME	ME OF CUSTOMER GM(ENV.), WCL(HQ), NAGP			CL(HQ), NAGPU	GPUR			
CUSTOMER LETTER R	EFERENCE N	10.	WCL/HQ/ENV	//14-I/588-615 [OATED: 15.0	6.20		
TEST REQUIRED			:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance volume-II (part-II)-2.12:2016, NO $_2$: IS 5182 Part-06:2006(2017), SO $_2$:IS 5182 Part-2:2001(RA					
NAME OF AREA	1		KANHAN			SAMPLING PLAN : LC	QR 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/m³)					ENVIRONMENT	
DATE(dd:mm:yy	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS		
FROM	ТО	5	5	2	6	10	(Sky/Wind)	
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 TH September 2000		600	300	-	120	120		

	SAM-OFFICE GHORAWARI: KJUA2								
DATE(dd:mm:yy)) OF SAMPLING				ENVIRONMENT					
DATE(dd:mm:yy	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS			
FROM	TO	5	5	2	6	10	(Sky/Wind)		
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 TH September 2000		600	300	-	120	120			

	COLONY-HEALTH CENTER JHARNA: KJUA3							
DATE/dd.ma.ma.v.u	A) OF CAMPLING	PARAMETERS (24 hourly values in μg/m³)					ENVIRONMENT	
DATE(dd.IIIII.y)	DATE(dd:mm:yy)) OF SAMPLING			PM _{2.5}	NO ₂	SO ₂	CONDITIONS	
FROM	TO	5	5	2	6	10	(Sky/Wind)	
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	
NAAQ	S, 2009	-	100	60	80	80		

PANARA VILLAGE: KJUA4								
DATE/dd:mm.u)) OF SAMPLING	PARAMETERS (24 hourly values in μg/m³)					ENVIRONMENT	
DATE(dd:mm:yy	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS		
FROM	TO	5	5	2	6	10	(Sky/Wind)	
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	
NAAQ	S, 2009	-	100	60	80	80		

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CMPDI RI-IV, NAGPUR 2 of 4

SAMPLE DESCRIPTION	Water sam	ple
Test Required		5 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 &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		ANALYSI	S RESULTS			
COLLECTION	pH TSS (in mg/l) COD(in mg/l) O & G(in mg/					
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		
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)		
MONTH	COLLECTION	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	
NOISE POLLUTION (R	EGULATION AND CONTROL) RULES	75	70	

COLONY(JHARNA):		KGON2	
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
MONTH	COLLECTION	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
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

CMPDI RI-IV, NAGPUR 4 of 4

ENVIRONMENTAL AUDIT STATEMENT (FORM-V)

MOHAN (MAORI) 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 13th 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_2 , NO_x 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

Sno.	Particulars	Water Consumption Average (kL/Day)
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
	Discharge into adjacent nallah after	
c)	treatment	80 KL/day
	Total	890 KL/Day

Table-B Water Consumption against Production (including recycled)

Name of Product	Water Consumption per u recycled)	unit of product (including		
	During the previous FY 2019-20	During the current FY 2020- 21		
COAL	2.37 KL/tone of Coal produced.	1.718 KL/tone of Coal produced.		

Table-C Raw Material Consumption

Name material	of rav	Name of product	Consumption of raw product	material per unit of
				During the current
			FY 2019-20	FY 2020-21
Explosive	(Kg/ton)	Coal	0.235	0.245

$\underline{PART-C}$ 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 m³)

- 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:

Sno.	Particulars	Amount
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

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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/MAY-20/A73		DATE OF ISSUE	30-06-20	
NAME OF CUSTOMER	GM(ENV.),WO	CL(HQ), NAGPU	R	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO. WCL/HQ/Env			14-1/588-61	5 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 ₂ :IS 5182 Part-2:2001(RA 2017)			**	
NAME OF AREA	KANHAN AREA			SAMPLING METHOD: LSOP 4	
NAME OF PROJECT	MOHAN/ MA	ORI UG		SAMPLING PLAN : LQR 47	

SAM OFFICE- AMBARA : KMUA1					
DATE OF	Р	PARAMETERS (24 hourly values in μg/m³)			
SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO _X SO ₂			
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	Р	PARAMETERS (24 hourly values in μg/m³)			
SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO _X SO ₂			
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	Р	PARAMETERS (24 hourly values in μg/m³)			
SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO _X SO ₂			
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	Р	PARAMETERS (24 hourly values in μg/m³)			
SAMPLING	SPM PM ₁₀ PM _{2.5} NO _X SO ₂				
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



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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.),W0	CL(HQ), NAGPU	R	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO. WCL/HQ/Env/			14-I/588-61 <u>5</u>	5 dated 15.06.20	
TEST REQUIRED IS 3025 -Part		t 11:1983(RA	2017), IS 3	3025-Part 17:1984(RA 20)17), APHA (23rd
TEST REQUIRED	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: KMUW1						
DATE OF SAMPLE	ANALYSIS RESULTS					
COLLECTION	pH TSS (in mg/l) COD(in mg/l) 0 & 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	NOISE LE	VEL IN dB(A)		
	COLLECTION		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	NOISE LE	VEL IN dB(A)		
	COLLECTION		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

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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.),WC	L(HQ), NAGPU	R	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFEI	WCL/HQ/Env/	14-I/588-615	5 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 ₂ :IS 5182 Part-2:2001(RA 2017)				**
NAME OF AREA	KANHAN ARE	Α		SAMPLING METHOD: LSOP 4	
NAME OF PROJECT	MOHAN/ MA	ORI UG		SAMPLING PLAN : LQR 47	

SAM OFFICE- AMBARA: KMUA1							
DATE OF	P	PARAMETERS (24 hourly values in μg/m³)					
SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO _X SO ₂					
DETECTION LIMIT	5	5	2	6	10		
11-06-20	99	74	35	13	<10		
26-06-20	81	66	27	12	<10		
TLV	600	300	60	120	120		

PIT OFFICE- MOHAN: KMUA2								
DATE OF	Р	PARAMETERS (24 hourly values in μg/m³)						
SAMPLING	SPM	SPM PM_{10} $PM_{2.5}$ NO_{χ} SO_2						
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: KMUA3							
DATE OF	P	PARAMETERS (24 hourly values in μg/m³)					
SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO _X SO ₂					
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: KMUA4							
DATE OF	Р	PARAMETERS (24 hourly values in μg/m³)					
SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO _X SO ₂					
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		

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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		R	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO. WCL/HQ/Env,			14-I/588-61 <u>5</u>	5 dated 15.06.20	
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025			Part 17:1984(RA 2017), A	PHA (23rd Edition)
TEST REQUIRED	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: KMUW1							
DATE OF SAMPLE	ANALYSIS RESULTS						
COLLECTION	pH TSS (in mg/l) COD(in mg/l) 0 & 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	NOISE LEVEL IN dB(A)			
	COLLECTION	DAY TIME			
JUNE 2020	10.06.20	70.3			
JUNE 2020	26.06.20	70.4			
	TLV	75			

COLONY: KMUN2					
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)			
	COLLECTION	DAY TIME			
JUNE 2020	10.06.20	46.2			
JUNE 2020	26.06.20	46.5			
	TLV	55			

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Test Report



TEST REPORT NO. RIN/TR/JULY-20/75				DATE OF ISSUE	31.08.2020	5		
NAME OF CUSTOME	AME OF CUSTOMER GM(ENV.), WCL(HQ), NAGPUR			R				
CUSTOMER LETTER REFERENCE NO.			WCL/HQ/ENV	V/14-I/588-615 I	DATED: 15	5.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assuguidance document volume-II (part-II)-2.12:2016, NO ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)				ırance			
NAME OF AREA	•		KANHAN		SAMPLING PLAN : LQF	R 47		
NAME OF PROJECT		MOHAN/MAORI UG			•			
SAMPLE DESCRIPTION Air sample								
SAMPLING METHOD : LSOP 4			-					

	SAM OFFICE: KAUA1								
DATE/dd:mm:uu)) OF SAMPLING		PARAMETERS	(24 hourly va	lues in μg/m ³)	ENVIRONMENT		
DATE(dd.IIIII.yy)) OF SAIVIPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS		
FROM	TO	5	5	2	6	10	(Sky/Wind)		
16-Jul-20	17-Jul-20	77	56	30	15	11	CLOUDY SKY, CALM		
STANDARDS FOR COAL MINE, GSR 742(E),		600	300		420	420			
dt. 25 TH Sept	dt. 25 TH September 2000			-	120	120			

	PIT-OFFICE-MOHAN: KAUA2								
DATE/dd:mm.ua)) OF SAMPLING		PARAMETERS	(24 hourly va	llues in μg/m³)	ENVIRONMENT		
DATE(dd.IIIII.yy)) OF SAIVIPLING	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂				CONDITIONS			
FROM	TO	5	5 5 2 6 10						
17-Jul-20	18-Jul-20	80	58	27	12	<10	CLOUDY SKY, CALM		
STANDARDS FOR CO				100	400				
dt. 25 TH Sep	tember 2000	600	300	-	120	120			

	COLONY HEALTH CENTER: KMUA3								
DATE/dd:mm::u	DATE(dd:mm:yy)) OF SAMPLING PARAMETERS (24 hourly values in µg/m³)								
DATE(dd.IIIII.yy)) OF SAIVIPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂						
FROM	TO	5	5	2	6	10	(Sky/Wind)		
16-Jul-20	17-Jul-20	83	83 60 33 15 <10				CLOUDY SKY, CALM		
NAAQ	NAAQS, 2009 - 100 60 80 80								

	AMBARA VILLAGE: KMUA4									
DATE/dd:mm::a)) OF SAMPLING		PARAMETERS (24 hourly values in µg/m³)							
DATE(dd.IIIII.yy)) OF SAIVIPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS			
FROM	TO	5	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			
NAAQ	S, 2009	-	100	60	80	80				
		•	•	•		•	•			

CMPDI RI-IV, NAGPUR 1 of 3

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		ANALYSI	S RESULTS						
COLLECTION	рН	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.	5.5 - 9.0	100	250	10					
25/09/2000									

Analysed by

Deepanshu sahu **Authorised Signatory**

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NOISE LEVEL MONITORING DATA

	FAN HOUSE:	KMUN1
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)
MONTH	COLLECTION	DAY TIME
	DETECTION LIMIT	20
JULY.2020	15-Jul-20	69.7
JULY.2020	16-Jul-20	67.7
,	EGULATION AND CONTROL) RULES	75

	COLONY(MOHAN MAORI):	KMUN2					
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)					
MONTH	COLLECTION	DAY TIME					
	DETECTION LIMIT	20					
JULY.2020	15-Jul-20	44.9					
JULY.2020	16-Jul-20	45.4					
NOISE POLLUTION (RE	NOISE POLLUTION (REGULATION AND CONTROL)						
	RULES	55					

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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

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Test Report



_							
TEST REPORT NO.	EST REPORT NO.		RIN/TR/AUGUST-20/75			DATE OF ISSUE	30.09.2020
NAME OF CUSTOMER GM(ENV.), WCL(HQ),			CL(HQ), NAGPU	JR	•	•	
CUSTOMER LETTER RE	FERENCE N	0.	WCL/HQ/EN\	//14-I/588-615	DATED: 15.0	6.20	
TEST REQUIRED	REQUIRED SPM: IS 5182 Part-4:1999(RA 2019), PM-10			PM-10: IS-5182	Part 23:200	6(RA 2017), PM2.5: USEPA	Quality Assurance
NAME OF AREA			KANHAN			SAMPLING PLAN : LQR 47	
NAME OF PROJECT			MOHAN/MA	ORI UG			-
SAMPLE DESCRIPTION Air sample					-		
SAMPLING METHOD : LSOP 4			•				

	SAM OFFICE: KAUA1								
DATE/dd.mama.u.u.) \ OE CAMPLING		PARAMETERS	(24 hourly va	llues in μg/m ³)	ENVIRONMENT		
DATE(dd:mm:yy)) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS		
FROM	TO	5	5 5 2			10	(Sky/Wind)		
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),		600	300		120	120			
dt. 25 TH Sept	tember 2000	800	300	-	120	120			

		PIT-O	FFICE-MOHAN	: KAUA2				
DATE/ dal		PARAMETERS (24 hourly values in μg/m ³)						
DATE(dd:mm:yy)) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS	
FROM	TO	5	5	2	6	10	(Sky/Wind)	
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 TH September 2000		300	-	120	120		
		COLONY HE	ALTH CENTER	: KMUA3				
DATE/dd:mm::a	A)) OE CAMPLING		PARAMETERS (24 hourly values in μg/m³)					
DATE(dd:mm:yy)) OF SAMPLING		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS	
FROM	TO	5	5	2	6	10	(Sky/Wind)	
13.08.2020	14.08.2020	76	48	29	12	BDL	cloudy, calm	
NAAQ	S, 2009	-	100	60	80	80		

		AMI	KMUA4				
			PARAMETERS (24 hourly values in µg/m³)				
DATE(dd:mm:yy))OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS (Sky/Wind)
FROM	TO	5	5	2	6	10	(Sky/Wind)
13.08.2020	08.2020 14.08.2020 87		55	33	11	BDL	cloudy, calm
NAAQ	NAAQS, 2009		100	60	80	80	

atombhume

Deepanshu sahu

Analysed by Authorised Signatory

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SAMPLE DESCRIPTION	Water sam	Water sample						
Test Required	pH: IS 302	5 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition)						
SAMPLING METHOD	LSOP 5							

MINE WATER DISCHARGE: KMUW1								
DATE OF SAMPLE	ANALYSIS RESULTS							
COLLECTION	pН	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.	5.5 - 9.0	100	250	10				
25/09/2000								

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CMPDI RI-IV, NAGPUR 3 of 4

NOISE LEVEL MONITORING DATA

	FAN HOUSE:	KMUN1
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)
MONTH	COLLECTION	DAY TIME
	DETECTION LIMIT	20
Aug-20	12.8.2020	69.7
Aug-20	27.8.2020	69.7
NOISE POLLUTION (R	75	
	/3	

	KMUN2	
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)
MONTH	COLLECTION	DAY TIME
	DETECTION LIMIT	20
Aug-20	12.8.2020	43.4
Aug-20	45.2	
NOISE POLLUTION (RI	55	

CMPDI RI-IV, NAGPUR 4 of 4

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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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Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.		RIN/TR/SEPTEMBER-20/75			DATE OF ISSUE	30.10.2020	
NAME OF CUSTOMER		GM(ENV.), W	GM(ENV.), WCL(HQ), NAGPUR				
CUSTOMER LETTER REFERENCE	WCL/HQ/ENV	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20					
TEST REQUIRED SPM: IS	999(RA 2019),	9(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance					
NAME OF AREA		KANHAN	KANHAN		SAMPLING PLAN : LQR 4	17	
NAME OF PROJECT		MOHAN/MAG	ORI UG				
SAMPLE DESCRIPTION	е						
SAMPLING METHOD: LSOP 4		_					

	SAM OFFICE: KAUA1								
2177/11		PARAMETERS (24 hourly values in μg/m ³)					ENVIRONMENT		
DATE(dd:mm:yy	DATE(dd:mm:yy)) OF SAMPLING		PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS		
FROM	TO	5	5	2	6	10	(Sky/Wind)		
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 TH September 2000		600	300	-	120	120			

		PIT-O	FFICE-MOHAN	KAUA2			
DATE(44		PARAMETERS (24 hourly values in μg/m³)					ENVIRONMENT
DATE(dd:mm:yy	DATE(dd:mm:yy)) OF SAMPLING		PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS
FROM	TO	5	5	2	6	10	(Sky/Wind)
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
	TANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		300	-	120	120	
				T			
		COLONY HI	EALTH CENTER	KMUA3			
DATE(44	A A OF CANADUMC		ENVIRONMENT				
DATE(dd:mm:yy	y)) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS
FROM	TO	5	5	2	6	10	(Sky/Wind)
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
NAAQ	NAAQS, 2009		100	60	80	80	

AMBARA VILLAGE: KMUA4							
		PARAMETERS (24 hourly values in μg/m³)					
DATE(dd:mm:yy	DATE(dd:mm:yy)) OF SAMPLING		PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	5	5	2	6	10	(Sky/ Willu)
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
NAAQ	NAAQS, 2009		100	60	80	80	



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CMPDI RI-IV, NAGPUR 2 of 4

SAMPLE DESCRIPTION	Water sam	ple
Test Required	pH: IS 302	5 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition)
SAMPLING METHOD	LSOP 5	

MINE WATER DISCHARGE: KMUW1					
DATE OF SAMPLE		ANALYSI	S RESULTS		
COLLECTION	pН	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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CMPDI RI-IV, NAGPUR 3 of 4

NOISE LEVEL MONITORING DATA

FAN HOUSE:		KMUN1		
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)		
MONTH	COLLECTION	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	
NOISE POLLUTION (REGULATION AND CONTROL)		75	70	
RULES		/3	/0	

	COLONY(MOHAN MAORI):	KMUN2	
	DATE OF SAMPLE	NOISE LEVEL IN (dB(A)
MONTH	COLLECTION	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
`	EGULATION AND CONTROL) RULES	55	45

CMPDI RI-IV, NAGPUR 4 of 4

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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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Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.		RIN/TR/OCTOBER-20/75	DATE OF	ISSUE	30.11.2020
NAME OF CUSTOMER GM(ENV.), WCL(HQ), NAGPO			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 ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)				
NAME OF AREA		KANHAN	SAMPI	LING PLAN : LQR 47	
NAME OF DROIFCE		MOHAN/MAORILIG			•

SAMPLE DESCRIPTION Air sample

SAMPLING METHOD : LSOP 4

SAM OFFICE: KAUA1							
DATE/44)) OF CAMPLING		PARAMETERS	(24 hourly va	alues in μg/m³)		ENVIRONMENT
DATE(dd:mm:yy)) OF SAMPLING		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS
FROM	TO	5	5	2	6	10	(Sky/Wind)
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 COA	L MINE, GSR 742(E), dt.	600	300		120	120	
25 TH Septe	mber 2000	500	300	-	120	120	

		PIT-OI	FFICE-MOHAN:	KAUA2			
DATE(dd:mm:yy)) OF SAMPLING		PARAMETERS (24 hourly values in μg/m³)				ENVIRONMENT	
DATE(dd:mm:yy)) OF SAIVIPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS
FROM	TO	5	5	2	6	10	(Sky/Wind)
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
	L MINE, GSR 742(E), dt. ember 2000	600	300	-	120	120	
		COLONY HE	ALTH CENTER:	KMUA3			
DATE(III) \ OF CAMPUING		PARAMETERS	(24 hourly va	alues in µg/m³)		ENVIRONMENT
DATE(dd:mm:yy)) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS
FROM	TO	5	5	2	6	10	(Sky/Wind)
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
NAAQ	S, 2009	-	100	60	80	80	

AMBARA VILLAGE: KMUA4							
		PARAMETERS (24 hourly values in μg/m ³)				ENVIRONMENT	
DATE(dd:mm:yy)) OF SAMPLING		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS (Sky/Wind)
FROM	TO	5	5	2	6	10	(Sky/Willu)
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
NAAQ	S, 2009	-	100	60	80	80	

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CMPDI RI-IV, NAGPUR 2 of 4

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		ANALYSI	S RESULTS		
COLLECTION	pН	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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CMPDI RI-IV, NAGPUR 3 of 4

NOISE LEVEL MONITORING DATA

FAN HOUSE:		KMUN1		
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)		
MONTH	COLLECTION	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	
NOISE POLLUTION (REGULATION AND CONTROL)		75	70	
RULES		/3	/0	

	COLONY(MOHAN MAORI):	KMUN2	
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)
MONTH	COLLECTION	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
,	EGULATION AND CONTROL) RULES	55	45

CMPDI RI-IV, NAGPUR 4 of 4

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ENVIRONMENTAL MONITORING REPORT

MOHAN MAORI UG

KANHAN AREA 2

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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REGIONAL INSTITUTE-IV, KASTURBA NAGAR, JARIPATKA, NAGPUR, PIN – 440 014

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Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.	EST REPORT NO.		RIN/TR/NOV-20/75		DATE OF ISSUE	3	1.12.2020	
NAME OF CUSTOMER	ME OF CUSTOMER GM(ENV.), WCL(HQ), NAGPUR			UR				
CUSTOMER LETTER REFERENCE NO. WCL/HQ/			WCL/HQ/EN	/CL/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 Qualit guidance document volume-II (part-II)-2.12:2016, NO ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 P 2017)				•			
NAME OF AREA	*		KANHAN			SAMPLING PLAN : LQ	R 47	
NAME OF PROJECT		MOHAN/MAORI UG						
SAMPLE DESCRIPTION Air sample		!		_				
SAMPLING METHOD : LSOP 4				-				

	SAM OFFICE: KAUA1							
DATE/dd.mama.u.a	A) OF CAMPLING		PARAMETERS	(24 hourly va	alues in μg/m³)	ENVIRONMENT	
DATE(dd:mm:yy)) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS	
FROM	TO	5	5	2	6	10	(Sky/Wind)	
03.11.20	04.11.20	192	137	56	14	11	CLEAR CloudyCalm	
18.11.20	18.11.20 19.11.20		126	43	13	BDL	CLEAR CloudyCalm	
STANDARDS FOR COAL MINE, GSR 742(E),		600	300		120	120		
dt. 25 TH Sep	dt. 25 TH September 2000		300	-	120	120		

		PIT-OI	FFICE-MOHAN:	KAUA2			
DATE/ dal	A) A C CANADUNIC		PARAMETERS	(24 hourly va	lues in μg/m ³)	ENVIRONMENT
DATE(dd:mm:yy	DATE(dd:mm:yy)) OF SAMPLING		PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS
FROM	TO	5	5	2	6	10	(Sky/Wind)
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 TH September 2000		600	300	-	120	120	
		COLONY HE	ALTH CENTER:	KMUA3			
DATE/dd.momo.u.a.	A) A OF CAMPLING		PARAMETERS	(24 hourly va	lues in μg/m ³)	ENVIRONMENT
DATE(dd:mm:yy)) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS
FROM	TO	5	5	2	6	10	(Sky/Wind)
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
NAAQ	S, 2009	-	100	60	80	80	

	AMBARA VILLAGE: KMUA4								
			PARAMETERS	(24 hourly va	lues in μg/m³)	ENVIRONMENT		
DATE(dd:mm:yy)) OF SAMPLING		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS		
FROM	TO	5	5	2	6	10	(Sky/Wind)		
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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CMPDI RI-IV, NAGPUR 2 of 5

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CMPDI RI-IV, NAGPUR 3 of 5

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	ANALYSIS RESULTS							
COLLECTION	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.	5.5 - 9.0	100	250	10				
25/09/2000								

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CMPDI RI-IV, NAGPUR 4 of 5

NOISE LEVEL MONITORING DATA

	FAN HOUSE:	KMUN1			
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)			
MONTH	COLLECTION	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		
NOISE POLLUTION (RI	GULATION AND CONTROL)	75	70		
	RULES	75	70		

	COLONY(MOHAN MAORI):	KMUN2			
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)			
MONTH	COLLECTION	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		
,	EGULATION AND CONTROL) RULES	55	45		

CMPDI RI-IV, NAGPUR 5 of 5

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ENVIRONMENTAL MONITORING REPORT

MOHAN MAORI UG

KANHAN AREA 2

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



DECEMBER 2020

Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.).		RIN/TR/DEC-20/75		DATE OF ISSUE	31.01.2021	
NAME OF CUSTOME	R		GM(ENV.), WCL(HQ), NAGPUR				
CUSTOMER LETTER	REFERENCE N	IO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20				
TEST REQUIRED			, ,,		Part 23:2006(RA 2017), PM2.5: O ₂ : IS 5182 Part-06:2006(2017),	. ,	
NAME OF AREA			KANHAN		SAMPLING PLAN : L	-QR 47	
NAME OF PROJECT		MOHAN/MAORI UG					
SAMPLE DESCRIPTION Air sample							
SAMPLING METHOD : LSOP 4			-				

	SAM OFFICE: KAUA1							
DATE/dd.ma.ma)) OF CANADIANC		PARAMETERS	(24 hourly va	alues in μg/m³)	ENVIRONMENT	
DATE(dd:mm:yy)) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS	
FROM	TO	5	5	2	6	10	(Sky/Wind)	
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),		600	300		120	120		
dt. 25 TH Sep	dt. 25 TH September 2000		300	-	120	120		

		PIT-OF	FICE-MOHAN:	KAUA2				
DATE(dd:mm:yy)) OF SAMPLING			PARAMETERS (24 hourly values in μg/m³)					
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS	
FROM	TO	5	5	2	6	10	(Sky/Wind)	
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 TH September 2000		600	300	-	120	120		
		COLONY HE	ALTH CENTER:	KMUA3				
DATE/dd.momo.u.a	A LOT CANADLING	PARAMETERS (24 hourly values in μg/m³)					ENVIRONMENT	
DATE(dd:mini:y)	y)) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS	
FROM	TO	5	5	2	6	10	(Sky/Wind)	
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	
NAAQ	S, 2009	-	100	60	80	80		

	AMBARA VILLAGE: KMUA4								
			PARAMETERS (24 hourly values in μg/m³)						
DATE(dd:mm:yy)) OF SAMPLING		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS		
FROM	TO	5	5	2	6	10	- (Sky/Wind)		
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		
NAAQ	S, 2009	-	100	60	80	80			



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CMPDI RI-IV, NAGPUR 2 of 4

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		ANALYSI	S RESULTS			
COLLECTION	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.	5.5 - 9.0	100	250	10		
25/09/2000						

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CMPDI RI-IV, NAGPUR 3 of 4

NOISE LEVEL MONITORING DATA

	FAN HOUSE:	KMUN1	
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)
MONTH	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'20	04.12.20	58.3	55.5
DEC'20	18.12.20	60.6	55.9
NOISE POLLUTION (RI	EGULATION AND CONTROL)	75	70
	RULES	/5	70

	COLONY(MOHAN MAORI):	KMUN2	
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)
MONTH	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'20	04.12.20	50.2	45.1
DEC'20	18.12.20	52.6	42.7
,	EGULATION AND CONTROL) RULES	55	45

CMPDI RI-IV, NAGPUR 4 of 4

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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

AN ISO 9001:2015 COMPANY

Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.		RIN/TR/JAN-2	201/75		DATE OF ISSUE		28.02.2021	
NAME OF CUSTOMER			GM(ENV.), W	GM(ENV.), WCL(HQ), NAGPUR				
CUSTOMER LETTER REFERENCE NO.			WCL/HQ/EN\	//14-I/588-615	DATED: 15.0	06.20		
SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality As: guidance document volume-II (part-II)-2.12:2016, NO ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-22 2017)				•				
NAME OF AREA	•		KANHAN			SAMPLING PLAN : LC	(R 47	
NAME OF PROJECT		MOHAN/MAG	ORI UG				•	
SAMPLE DESCRIPTION Air sample				=				
SAMPLING METHOD : LSOP 4			-					

	SAM OFFICE: KAUA1						
DATE(dd:mm:yy)) OF SAMPLING		PARAMETERS (24 hourly values in μg/m³))	ENVIRONMENT
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS
FROM	TO	5	5	2	6	10	(Sky/Wind)
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),		600	200		120	120	
dt. 25 [™] Sep	dt. 25 TH September 2000		300	-	120	120	

		PIT-OI	FICE-MOHAN:	KAUA2			
DATE/ddummous		PARAMETERS	(24 hourly va	alues in μg/m³)	ENVIRONMENT	
DATE(dd.IIIII.yy)) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS
FROM	TO	5	5	2	6	10	(Sky/Wind)
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 TH September 2000		600	300	-	120	120	
		COLONY HE	ALTH CENTER:	KMUA3			
DATE/dd:mmun)) OF CAMPLING		PARAMETERS	(24 hourly va	lues in μg/m³)	ENVIRONMENT
DATE(dd.iiiii.yy)) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS
FROM	TO	5	5	2	6	10	(Sky/Wind)
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
NAAQ	S, 2009	-	100	60	80	80	

		AME	BARA VILLAGE:	KMUA4			
				(24 hourly va	lues in μg/m³)	ENVIRONMENT
DATE(dd:mm:yy)) OF SAMPLING		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS
FROM	TO	5	5	2	6	10	(Sky/Wind)
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
NAAQ	S, 2009	-	100	60	80	80	



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CMPDI RI-IV, NAGPUR 2 of 4

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		ANALYSI	S RESULTS			
COLLECTION	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.	5.5 - 9.0	100	250	10		
25/09/2000						

Analysis distri

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NOISE LEVEL MONITORING DATA

	FAN HOUSE:	KMUN1	
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)
MONTH	COLLECTION	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
NOISE POLLUTION (R	EGULATION AND CONTROL)	75	70
	RULES	/5	70

	COLONY(MOHAN MAORI):	KMUN2	
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)
MONTH	COLLECTION	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
,	EGULATION AND CONTROL) RULES	55	45

CMPDI RI-IV, NAGPUR 4 of 4

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ENVIRONMENTAL MONITORING REPORT

MOHAN MAORI UG

KANHAN AREA 2

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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Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.	TEST REPORT NO.		RIN/TR/FEB-21/75			DATE OF ISSUE	3	1.03.2021
NAME OF CUSTOMER	₹		GM(ENV.), WCL(HQ), NAGPUR					
CUSTOMER LETTER R	EFERENCE N	IO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20					
TEST REQUIRED			:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assuranc volume-II (part-II)-2.12:2016, NO ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001				•	
NAME OF AREA			KANHAN			SAMPLING PLAN : LO	R 47	
NAME OF PROJECT			MOHAN/MA	ORI UG				
SAMPLE DESCRIPTION Air sample				_				
SAMPLING METHOD	: LSOP 4	•		-				

	SAM OFFICE: KAUA1						
DATE/ d d	A A OF CAMPLING	PARAMETERS (24 hourly values in μg/m³)					ENVIRONMENT
DATE(dd:mm:yy	DATE(dd:mm:yy)) OF SAMPLING SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂			SO ₂	CONDITIONS		
FROM	TO	5	5	2	6	10	(Sky/Wind)
01.02.2021	02.02.2021	301	189	40	16	13	Cloudy/Calm
16.02.2021	16.02.2021 17.02.2021		201	44	15	BDL	Cloudy/Calm
STANDARDS FOR COAL MINE, GSR 742(E),		C00	200		120	120	
dt. 25 [™] Sep	tember 2000	600	300	-	120	120	

		PIT-OI	FICE-MOHAN:	KAUA2			
DATE/dd.mama.u.u	DATE(dd:mm:yy)) OF SAMPLING		PARAMETERS (24 hourly values in μg/m³)				
DATE(dd:mm:yy			PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS
FROM	TO	5	5	2	6	10	(Sky/Wind)
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
	AL MINE, GSR 742(E), tember 2000	600	300	-	120	120	
		COLONY HE	ALTH CENTER:	KMUA3	•		
DATE/ d d	A) A OF CANADIANC	PARAMETERS (24 hourly values in μg/m³)				ENVIRONMENT	
DATE(dd:mm:yy)) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS
FROM	TO	5	5	2	6	10	(Sky/Wind)
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
NAAQ	S, 2009	-	100	60	80	80	_

	AMBARA VILLAGE: KMUA4							
		ENVIRONMENT CONDITIONS						
DATE(dd:mm:yy	DATE(dd:mm:yy)) OF SAMPLING SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂							
FROM	TO	5	5	2	6	10	(Sky/Wind)	
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	
NAAQ	S, 2009	-	100	60	80	80		

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CMPDI RI-IV, NAGPUR 2 of 3

NOISE LEVEL MONITORING DATA

	FAN HOUSE:	KMUN1		
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)		
MONTH	COLLECTION	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	
NOISE POLLUTION (RE	GULATION AND CONTROL)	75	70	
	RULES	75	70	

	COLONY(MOHAN MAORI):	KMUN2	
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)
MONTH	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
,	EGULATION AND CONTROL) RULES	55	45

CMPDI RI-IV, NAGPUR 3 of 3

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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

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REGIONAL INSTITUTE-IV, KASTURBA NAGAR, JARIPATKA, NAGPUR, PIN – 440 014

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Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.		RIN/TR/MAR-21/75	DATE OF ISSUE	28.04.2021			
NAME OF CUSTOME	AME OF CUSTOMER GM(ENV.), WCL(HQ), NAGPUR						
CUSTOMER LETTER I	REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DA	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20				
TEST REQUIRED		, ,,	$4:1999$ (RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Qualitht volume-II (part-II)-2.12:2016, NO $_2$: IS 5182 Part-06:2006(2017), SO $_2$:IS 5182 F				
NAME OF AREA							
NAME OF AREA		KANHAN	SAMPLING PLAN : LQI	R 47			
NAME OF AREA NAME OF PROJECT		KANHAN MOHAN/MAORI UG	SAMPLING PLAN : LQI	R 47			
	N Air s		SAMPLING PLAN : LQI	R 47			

	SAM OFFICE: KAUA1						
DATE/dd.momo.u.u.	A) A OF CAMPLING	PARAMETERS (24 hourly values in μg/m³)					ENVIRONMENT
DATE(dd:mm:yy)) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS
FROM	TO	5	5	2	6	10	(Sky/Wind)
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 TH September 2000		600	300	-	120	120	

		PIT-OI	FICE-MOHAN:	KAUA2			
DATE/dd.mama.u.u	A) OF CAMPLING	PARAMETERS (24 hourly values in μg/m³)					ENVIRONMENT
DATE(dd:mm:yy	DATE(dd:mm:yy)) OF SAMPLING		PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS
FROM	TO	5	5	2	6	10	(Sky/Wind)
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
TANDARDS FOR COAL MINE, GSR 742(E), dt.		600	300		420	120	
25 [™] Septe	ember 2000	600	300	-	120	120	
		COLONY HE	ALTH CENTER:	KMUA3			
DATE/dd:mmun)) OF SAMPLING	PARAMETERS (24 hourly values in μg/m³)					ENVIRONMENT
DATE(dd.iiiii.yy)) OF SAIVIFLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS
FROM	TO	5	5	2	6	10	(Sky/Wind)
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
NAAQ	S, 2009	-	100	60	80	80	

	AMBARA VILLAGE: KMUA4						
			PARAMETERS (24 hourly values in μg/m³)				
DATE(dd:mm:yy	y)) OF SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂			ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	5	5	2	6	10	(Sky/Willu)
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
NAAQ	S, 2009	-	100	60	80	80	

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NOISE LEVEL MONITORING DATA

	FAN HOUSE:	KMUN1		
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)		
MONTH	COLLECTION	DAY TIME	NIGHT TIME	
	DETECTION LIMIT	20	20	
MAR'21	05.03.2021	67.7	66.4	
MAR'21	22.03.2021	67.4	65.9	
NOISE POLLUTION (RI	EGULATION AND CONTROL)	75	70	
	RULES	/5	70	

	COLONY(MOHAN MAORI):	KMUN2	
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)
MONTH	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
MAR'21	05.03.2021	45.9	43.8
MAR'21	22.03.2021	45.9	44.4
,	EGULATION AND CONTROL) RULES	55	45

CMPDI RI-IV, NAGPUR 3 of 3

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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	PART-I	06
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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 13th 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_x , NO_x 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 Kanhan 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

Sno.	Water Consumption Category	Quantity/usage (in KL/day)
a)	Industrial	
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)	Domestic	
i.	Domestic use	600 KL/day
ii.	Green Belt/Plantation	Nil
	TOTAL	600 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 During the current FY 2020-	
	2019-20 21	
COAL	Mine is not in operation since 01/07/2013	

Table-C Raw Material Consumption

Name of material	raw	Name of product	Consumption of raw product	material per unit of
			During the previous FY 2019-20	During the current FY 2020-21
Explosive (Kg	y/ton)	Coal	Mine is not in operation since 01/07/2013	

$\frac{PART-C}{Pollution\ discharged\ to\ Environment/unit\ of\ output\ (Parameters\ specified\ in\ the\ Consent\ issued)}$

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:

Sno.	Particulars	Amount
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

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CMPDI RI-IV, NAGPUR 2

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.

CMPDI RI-IV, NAGPUR 3

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.),W	CL(HQ), NAGPU	R	SAMPLE DESCRIPTION	AIR SAMPLE	
CUSTOMER LETTER REFE	RENCE NO. WCL/HQ/ENV/14-I/58			88-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-1 USEPA Quality Assurance guidance docun 5182 Part-06:2006(2017), SO ₂ :IS 5182 Par			ment volume-II (part-I	, ,,	
NAME OF AREA	KANHAN ARE	:A		SAMPLING METHOD : LSO	P 4	
NAME OF PROJECT	NANDAN UG			SAMPLING PLAN : LQR 4	7	

SAM OFFICE- NANDAN I UG: KNUA1					
DATE OF	PARAMETERS (24 hourly values in μg/m³)				
SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
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

PIT OFFICE- NANDAN II UG: KNUA2					
DATE OF	Р	PARAMETERS (24 hourly values in μg/m³)			
SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO _X	SO ₂
DETECTION LIMIT	5	5	2	6	10
08.05.2020	100	77	22	12	<10
30.05.2020	95	62	20	13	<10
TLV	600	300	60	120	120

HEALTH CENTRE- NANDAN UG: KNUA3					
DATE OF	Р	PARAMETERS (24 hourly values in μg/m³)			
SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO _X	SO ₂
DETECTION LIMIT	5	5	2	6	10
08.05.2020	70	49	30	14	11
29.05.2020	69	47	25	10	<10
TLV	200	100	60	80	80

NANDAN WATER FILTER PLANT: KNUA4					
DATE OF	PARAMETERS (24 hourly values in μg/m³)				
SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
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



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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		R	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFEI	RENCE NO.	RENCE NO. WCL/HQ/ENV/14-I/5		5 DATED: 15.06.20	
TEST REQUIRED	IS 3025 -Par	IS 3025 -Part 11:1983(RA		3025-Part 17:1984(RA 20)17), APHA (23rd
TEST REQUIRED	Edition) 5220	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	ANALYSIS RESULTS			
COLLECTION	рН	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 YEAR: 2020 NAME OF PROJECT: NANDAN UG MONTH: MAY

FAN HOUSE UG II: KNUN1				
MONTH	DATE OF DATA COLLECTION	NOISE LE	VEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME	
MAY-2020	13.05.2020	56.4	52.7	
MAY-2020	28.05.2020	62.4	60.1	
	TLV	75	70	

COLONY: KNUN2				
MONTH	DATE OF DATA	NOISE LE	VEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME	
MAY-2020	13.05.2020	45.2	42.4	
MAY-2020	28.05.2020	45.6	42.9	
	TLV	55	45	

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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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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

TEST REPORT NO.	RIN/TR/JUNE-20/A71			DATE OF ISSUE	31-07-20
NAME OF CUSTOMER	GM(ENV.),WC	CL(HQ), NAGPU	R	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFE	RENCE NO.	WCL/HQ/ENV/	14-1/588-61	5 DATED: 15.06.20	
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 ₂ :IS 5182 Part-2:2001(RA 2017)					
NAME OF AREA	KANHAN ARE	Ā		SAMPLING METHOD: LSOP 4	
NAME OF PROJECT	NANDAN UG			SAMPLING PLAN : LQR 47	

SAM OFFICE- NANDAN I UG: KNUA1								
DATE OF	P	PARAMETERS (24 hourly values in μg/m³)						
SAMPLING	SPM PM ₁₀ PM _{2.5} NO _X SO ₂							
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	P	PARAMETERS (24 hourly values in μg/m³)						
SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO _X SO ₂						
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	P	PARAMETERS (24 hourly values in μg/m³)						
SAMPLING	SPM PM ₁₀ PM _{2.5} NO _X SO ₂							
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	Р	PARAMETERS (24 hourly values in μg/m³)						
SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO _X SO ₂						
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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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				
TEST REQUIRED	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		ANALYSIS RESULTS					
COLLECTION	pH TSS (in mg/l) COD(in mg/l) O & G(in r						
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 YEAR: 2020 NAME OF PROJECT: NANDAN UG MONTH: JUNE

FAN HOUSE UG II: KNUN1							
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)					
	COLLECTION	DAY TIME					
JUNE 2020	13-06-20	60.2					
JUNE 2020	18-06-20	61.4					
	TLV	75					

COLONY: KNUN2							
MONTH	DATE OF DATA	NOISE LEVEL IN dB(A)					
	COLLECTION	DAY TIME					
JUNE 2020	14-06-20	45.1					
JUNE 2020	16-06-20	45.6					
	TLV	55					

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Test Report



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 ₂ : IS 5182 Part-06:2006(2017), SO ₂ :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:ww)) OE SAMDLING		PARAMETERS (24 hourly values in μg/m³)					
DATE(dd:mm:yy)) OF SAMPLING SPM PM ₁₀ PM _{2.5} NO ₂			NO ₂	SO ₂	CONDITIONS			
FROM	FROM TO		5	2	6	10	(Sky/Wind)	
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),		500	200		120	120		
dt. 25 TH September 2000		600	300	-	120	120		

	PIT OFFICE NANADAN II UG: KNUA2									
DATE/dd:mm::u/)) OF SAMPLING		PARAMETERS	AMETERS (24 hourly values in μg/m³)						
DATE(dd.iiiii.yy)) OF SAIVIPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS			
FROM	TO	5	5 5 2 6 10				(Sky/Wind)			
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 COA	600	300		100	400					
dt. 25 TH Sept	dt. 25 TH September 2000			-	120	120				

	HEALTH CENTER-NANADAN UG: KNUA3									
DATE/dd:mm:u	DATE(dd:mm:yy)) OF SAMPLING PARAMETERS (24 hourly values in µg/m³)									
DATE(dd:mm:y	y)) OF SAIVIPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂				CONDITIONS			
FROM	TO	5	5	2	6	10	(Sky/Wind)			
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:w/	DATE(dd:mm:yy)) OF SAMPLING PARAMETERS (24 hourly values in µg/m³)								
DATE(dd.IIIII.yy)) OF SAIVIPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS		
FROM	TO	5	5	2	6	10	(Sky/Wind)		
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									

CMPDI RI-IV, NAGPUR 1 of 3

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		ANALYSI	S RESULTS						
COLLECTION	рН	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					

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Analysed by

Deepanshu sahu Authorised Signatory

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NOISE LEVEL MONITORING DATA

	FAN HOUSE UG II:	KNUN1
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)
MONTH	COLLECTION	DAY TIME
	DETECTION LIMIT	20
JULY.2020	13-Jul-20	59.7
JULY.2020	26-Jul-20	59.2
,	EGULATION AND CONTROL) RULES	75

	COLONY:	KNUN2
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)
MONTH	COLLECTION	DAY TIME
	DETECTION LIMIT	20
JULY.2020	13-Jul-20	44.2
JULY.2020	26-Jul-20	43.8
,	EGULATION AND CONTROL) RULES	55

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ENVIRONMENTAL MONITORING REPORT

KANHAN AREA

NANDAN UG

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



AUGUST 2020

Environment Laboratory

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Test Report



TEST REPORT NO.	EST REPORT NO.		RIN/TR/AUGUST-20/76			DATE OF ISSUE	30.09.2020
NAME OF CUSTOMER GM(ENV.), W			(ENV.), WCL(HQ), NAGPUR				
CUSTOMER LETTER REFERENCE NO. WCL/HQ/			WCL/HQ/EN\	//14-I/588-615	DATED: 15.0	6.20	
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							
SAMPLING METHOD :		•					

SAM OFFICE-NANDAN I UG: KNUA1									
PARAMETERS (24 hourly values in µg/m³)							ENVIRONMENT		
DATE(dd:mm:yy)	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS			
FROM	TO	5	5	2	6	10	(Sky/Wind)		
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^{TH} September 2000		600	300	-	120	120			

	PIT OFFICE NANADAN II UG: KNUA2									
DATE/-I-I	A A O E CAMPUNG		PARAMETERS	(24 hourly va	lues in μg/m ³)		ENVIRONMENT			
DATE(dd:mm:yy)) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS			
FROM	TO	5	5	2	6	10	(Sky/Wind)			
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 CO. dt. 25 TH Sept	600	300	-	120	120					

HEALTH CENTER-NANADAN UG: KNUA3								
DATE(dd:mm:yy)) OF SAMPLING PARAMETERS (24 hourly values in μg/m³)							ENVIRONMENT	
DATE(dd:mm:yy)) OF SAIVIPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS	
FROM	TO	5	5 5 2 6 10				(Sky/Wind)	
10/08/20	11/08/20	82	50	33	13	BDL	Rainy, calm	
23/08/2020	23/08/2020 24/08/2020 79 44 29 14 BD				BDL	Rainy, calm		
NAAQS, 2009 - 100 60 80 80								

	NANDAN WATER FILTER PLANT: KNWA4									
DATE/dd.momo.u.u.	PARAMETERS (24 hourly values in μg/m³)									
DATE(dd:mm:yy)) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS			
FROM	то	5	5	2	6	10 (Sky/Wind)				
09/08/20	10/08/20	86	55	28	12	BDL	cloudy, calm			
24/08/2020	80	45	25	11	BDL	cloudy, calm				
NAAQS, 2009 - 100 60 80 80										



Deepanshu sahu

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CMPDI RI-IV, NAGPUR 2 of 4

SAMPLE DESCRIPTION	Water sam	ple
Test Required	pH: IS 3025	5 -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		ANALYSI	S RESULTS			
COLLECTION	pН	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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CMPDI RI-IV, NAGPUR 3 of 4

NOISE LEVEL MONITORING DATA

	KNUN1	
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)
MONTH	COLLECTION	DAY TIME
	DETECTION LIMIT	20
20-Aug	10.08.2020	65.4
20-Aug	23.08.2020	57.4
NOISE POLLUTION (R	75	

	KNUN2	
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)
MONTH	COLLECTION	DAY TIME
	DETECTION LIMIT	20
Aug-20	10.08.2020	44.4
Aug-20	23.08.2020	43.1
NOISE POLLUTION (R	55	

CMPDI RI-IV, NAGPUR 4 of 4

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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

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REGIONAL INSTITUTE-IV, KASTURBA NAGAR, JARIPATKA, NAGPUR, PIN – 440 014

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Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.	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	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20				
TEST REQUIRED	SPM: IS 51	.82 Part-4:1	1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance					
NAME OF AREA	•		KANHAN			SAMPLING PLAN : LQ	R 47	
NAME OF PROJECT		NANDAN UG						
SAMPLE DESCRIPTION Air sample				•				
SAMPLING METHOD : LSOP 4			-					

SAM OFFICE-NANDAN I UG: KNUA1							
DATE(ddamana)	L) OF CAMPUNIC		PARAMETERS	(24 hourly values in μg/m³)			ENVIRONMENT
DATE(dd:mm:yy)	DATE(dd:mm:yy)) OF SAMPLING		PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS
FROM	TO	5	5	2	6	10	(Sky/Wind)
07.09.20	08.09.20	89	60	22	14	BDL	CLEAR SKY, LIGHT BREEZE
22.09.20	22.09.20 23.09.20		53	20	13	BDL	RANIY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

PIT OFFICE NANADAN II UG: KNUA2								
DATE(dd:mm:yy)) OF SAMPLING		PARAMETERS (24 hourly values in μg/m³)					ENVIRONMENT	
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS	
FROM	TO	5	5	2	6	10	(Sky/Wind)	
07.09.20	08.09.20	81	51	25	12	BDL	CLEAR, LIGHT BREEZE	
22.09.20	23.09.20	76	48	22	15	BDL	RAINY CALM	
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120		

HEALTH CENTER-NANADAN UG: KNUA3							
PARAMETERS (24 hourly values in µg/m³)							ENVIRONMENT
DATE(dd:mm:yy	DATE(dd:mm:yy)) OF SAMPLING			PM _{2.5}	NO ₂	SO ₂	CONDITIONS
FROM	TO	5	5	2	6	10	(Sky/Wind)
06.09.20	07.09.20	83	52	35	16	BDL	CLEAR MODERATE BREEZE
23.09.20	24.09.20	24.09.20 74 40 28 14 BDL		RAINY CALM			
NAAQ	S, 2009	-	100	60	80	80	

	NANDAN WATER FILTER PLANT: KNWA4							
DATE/dd.mama.u.u.	DATE(dd:mm:yy)) OF SAMPLING		PARAMETERS (24 hourly values in μg/m³)					
DATE(dd:mm:yy)) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS	
FROM	то	5	5	2	6	10	(Sky/Wind)	
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	
NAAQ:	5, 2009	-	100	60	80	80		



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CMPDI RI-IV, NAGPUR 2 of 4

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	ANALYSIS RESULTS					
COLLECTION	pН	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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CMPDI RI-IV, NAGPUR 3 of 4

NOISE LEVEL MONITORING DATA

FAN HOUSE UG II:		KNUN1		
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)		
MONTH	COLLECTION	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	
	ON (REGULATION AND TROL) RULES	75	70	

	COLONY:	KNUN2			
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)			
MONTH	COLLECTION	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		
	ON (REGULATION AND TROL) RULES	55	45		

CMPDI RI-IV, NAGPUR 4 of 4

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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

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Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.	RT NO. RIN/TR/OCT			DBER-20/76		DATE OF ISSUE	3	30.11.2020
NAME OF CUSTOME	R		GM(ENV.), WCL(HQ), NAGPUR					
CUSTOMER LETTER I	REFERENCE N	١٥.	WCL/HQ/EN\	//14-I/588-615 I	DATED: 15.0	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 Assur guidance document volume-II (part-II)-2.12:2016, NO ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2 2017)					. ,		
NAME OF AREA	•		KANHAN			SAMPLING PLAN : LO	QR 47	
NAME OF PROJECT NANDAN L			NANDAN UG		'			
SAMPLE DESCRIPTION Air sample								
SAMPLING METHOD : LSOP 4				_				

	SAM OFFICE-NANDAN I UG: KNUA1									
SAM OFFICE-NANDAN I UG: KNUAI										
DATE/ddimmina)) OE CAMPLING		PARAMETERS	(24 hourly va	lues in μg/m³)	ENVIRONMENT			
DATE(dd.IIIII.yy	DATE(dd:mm:yy)) OF SAMPLING SPM					CONDITIONS				
FROM	TO 5			2	6	10	(Sky/Wind)			
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			
	AL MINE, GSR 742(E), tember 2000	600	300	-	120	120				

	PIT OFFICE NANADAN II UG: KNUA2								
DATE/dd.mama.u.u.	\\OE CAMPLING		PARAMETERS	(24 hourly va	ilues in μg/m³)	ENVIRONMENT		
DATE(dd:mm:yy)) OF SAIVIPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS		
FROM	TO	5	5	2	6	10	(Sky/Wind)		
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 TH September 2000		600	300	-	120	120			

	HEALTH CENTER-NANADAN UG: KNUA3								
DATE(PARAMETERS (24 hourly values in µg/m³)						ENVIRONMENT		
DATE(dd:mm:y)	DATE(dd:mm:yy)) OF SAMPLING SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂				CONDITIONS				
FROM	TO	5	5	5 2 6 :		10	(Sky/Wind)		
06.10.20	07.10.20	71	39	22	10	BDL	CLEAR SKY,LIGHT BREEZE		
20.10.20	20.10.20 21.10.20 104 71 24 11 BDL					CLEAR SKY,LIGHT BREEZE			
NAAC	NAAQS, 2009 - 100 60 80 80								

	NANDAN WATER FILTER PLANT: KNWA4								
DATE/dd:mm:uu	DATE(dd:mm:yy)) OF SAMPLING PARAMETERS (24 hourly values in µg/m³)						ENVIRONMENT		
DATE(dd.IIIII.yy)) OF SAMPLING	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂			CONDITIONS				
FROM	ТО	5	5	2	6	10	(Sky/Wind)		
07.10.20	08.10.20	72	44	23	10	BDL	CLEAR SKY,LIGHT BREEZE		
21.10.20	21.10.20 22.10.20 110 62 23 10 BDL				CLEAR SKY,LIGHT BREEZE				
NAAQ	S, 2009	-	100	60	80	80			



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CMPDI RI-IV, NAGPUR 2 of 4

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		ANALYSI	S RESULTS				
COLLECTION	рН	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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CMPDI RI-IV, NAGPUR 3 of 4

NOISE LEVEL MONITORING DATA

	FAN HOUSE UG II:	KNUN1	
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)
MONTH	COLLECTION	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
	ON (REGULATION AND ROL) RULES	75	70

	COLONY:	KNUN2	
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)
MONTH	COLLECTION	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
	ON (REGULATION AND TROL) RULES	55	45

CMPDI RI-IV, NAGPUR 4 of 4

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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

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Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.	RIN/TR/NOV-20/76				DATE OF ISSUE		31.12.2020	
NAME OF CUSTOMER			GM(ENV.), WCL(HQ), NAGPUR					
CUSTOMER LETTER RI	EFERENCE N	Ю.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20					
TEST REQUIRED			1:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance t volume-II (part-II)-2.12:2016, NO $_2$: IS 5182 Part-06:2006(2017), SO $_2$:IS 5182 Part-2:2001(R/					
NAME OF AREA			KANHAN			SAMPLING PLAN : LC	QR 47	
NAME OF PROJECT NANDAI			NANDAN UG					-
SAMPLE DESCRIPTION Air sample								
SAMPLING METHOD : LSOP 4								

SAM OFFICE-NANDAN I UG: KNUA1									
PARAMETERS (24 hourly values in µg/m³)							ENVIRONMENT		
DATE(dd:mm:yy)) OF SAIVIPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS		
FROM	FROM TO		5	2	6	10	(Sky/Wind)		
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 COA	600	300	-	120	120				

	PIT OFFICE NANADAN II UG: KNUA2								
DATE/ dalaman and) OF CAMPLING		PARAMETERS	(24 hourly va	llues in μg/m³))	ENVIRONMENT		
DATE(dd:mm:yy)) OF SAMPLING	SPM	PM ₁₀	CONDITIONS					
FROM	TO	5	5	2	6	10	(Sky/Wind)		
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		
	AL MINE, GSR 742(E), ember 2000	600	300	-	120	120			

	HE	ALTH CENTER-I	NANADAN UG:	KNUA3			
DATE(dd:mm:yy)) OF SAMPLING PARAMETERS (24 hourly values in µg/m³)							ENVIRONMENT
DATE(dd:mm:y	()) OF SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂				CONDITIONS
FROM	TO	5	5	2	6	10	(Sky/Wind)
06.11.20	07.11.20	99	61	30	9	BDL	Cloudy/Calm
21.11.20	21.11.20 22.11.20 109 72 43 11 BDL					Clear/Windy	
NAAC	NAAQS, 2009 - 100 60 80 80						

	NA	NDAN WATER	FILTER PLANT:	KNWA4			
DATE/dd.mama	··/) OF CAMPLING		PARAMETERS	(24 hourly va	llues in μg/m³)	ENIVER CONMENT
DATE(dd:mm:y	y)) OF SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂				ENVIRONMENT CONDITIONS
FROM	то	5	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
NAAC	QS, 2009	-	100	60	80	80	

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CMPDI RI-IV, NAGPUR 2 of 4

SAMPLE DESCRIPTION	Vater sample
Test Required	oH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 ::2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATE	MINE WATER DISCHARGE: KNUW1									
DATE OF SAMPLE		ANALYSI	S RESULTS							
COLLECTION	рН	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.	5.5 - 9.0	100	250	10						
25/09/2000										

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CMPDI RI-IV, NAGPUR 3 of 4

NOISE LEVEL MONITORING DATA

	FAN HOUSE UG II:	KNUN1		
	DATE OF SAMPLE	PLE NOISE LEVEL IN dB(
MONTH	COLLECTION	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	
	EGULATION AND CONTROL) RULES	75	70	

	COLONY:	KNUN2			
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)			
MONTH	COLLECTION	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		
,	EGULATION AND CONTROL) RULES	55	45		

CMPDI RI-IV, NAGPUR 4 of 4

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ENVIRONMENTAL MONITORING REPORT

NANDAN UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



DECEMBER 2020

Environment Laboratory

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Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.			RIN/TR/DEC-20/76			DATE OF ISSUE		31.01.2021	
NAME OF CUSTOMER	NAME OF CUSTOMER GM(ENV.), WCL(HQ), NAGP			CL(HQ), NAGPL	Q), NAGPUR				
CUSTOMER LETTER RE	FERENCE N	0.	WCL/HQ/ENV	//14-I/588-615	DATED: 15.0	6.20			
TEST REQUIRED		M : IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Padance document volume-II (part-II)-2.12:2016, NO $_2$, ,,			
NAME OF AREA			KANHAN			SAMPLING PLAN : LC	QR 47		
NAME OF PROJECT			NANDAN UG					-	
SAMPLE DESCRIPTION Air sample									
SAMPLING METHOD : LSOP 4				-					

	SAM OFFICE-NANDAN I UG: KNUA1								
DATE/eldonomous	A A OF CAMPLING		PARAMETERS ((24 hourly va	llues in μg/m³		ENVIRONMENT		
DATE(dd:mm:yy)) OF SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂			CONDITIONS			
FROM	TO	5	5 5 2 6 10			10	(Sky/Wind)		
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 COA	600	300	-	120	120				

	PIT OFFICE NANADAN II UG: KNUA2								
DATE(dd:mm:yy)) OF SAMPLING PARAMETERS (24 hourly values in µg/m³))	ENVIRONMENT		
DATE(dd:mm:yy)) OF SAMPLING	SPM	PM ₁₀	SO ₂	CONDITIONS				
FROM	TO	5	5 5 2 6 10				(Sky/Wind)		
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 COA	AL MINE, GSR 742(E), ember 2000	600	300	-	120	120			

	HEA	ALTH CENTER-I	NANADAN UG	KNUA3			
DATE/dd.	A A OF CAMPUING		PARAMETERS	(24 hourly va	llues in μg/m³)	ENVIRONMENT
DATE(dd:mm:y	y)) OF SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂			CONDITIONS	
FROM	TO	5	5	2	6	10	(Sky/Wind)
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							

	NA	NDAN WATER	FILTER PLANT:	KNWA4			
DATE/elelenene	··/) OF CAMPLING		PARAMETERS	(24 hourly va	lues in μg/m³)	ENIVER CALMENT
DATE(dd:mm:y	y)) OF SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂				ENVIRONMENT CONDITIONS
FROM	то	5	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
NAAC	QS, 2009	-	100	60	80	80	



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CMPDI RI-IV, NAGPUR 2 of 4

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		ANALYSI	S RESULTS				
COLLECTION	рН	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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CMPDI RI-IV, NAGPUR 3 of 4

NOISE LEVEL MONITORING DATA

FAN HOUSE UG II: KNUN1							
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)					
MONTH	COLLECTION	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				
	EGULATION AND CONTROL) RULES	75	70				

	COLONY:	KNUN2	
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)
MONTH	COLLECTION	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
,	EGULATION AND CONTROL) RULES	55	45

CMPDI RI-IV, NAGPUR 4 of 4

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ENVIRONMENTAL MONITORING REPORT

NANDAN UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JANUARY 2021

Environment Laboratory

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Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.		RIN/TR/JAN-21/76		DATE OF ISSUE		28.02.2021			
NAME OF CUSTOMER			GM(ENV.), W	GM(ENV.), WCL(HQ), NAGPUR					
CUSTOMER LETTER RE	FERENCE N	Ю.	WCL/HQ/ENV	//14-I/588-615	DATED: 15.0	6.20			
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 ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)								
NAME OF AREA			KANHAN			SAMPLING PLAN : LQ	R 47		
NAME OF PROJECT		NANDAN UG			•		•		
SAMPLE DESCRIPTION Air sample									
SAMPLING METHOD : LSOP 4									

SAM OFFICE-NANDAN I UG: KNUA1								
DATE/ d d	A A OF CAMADIANC	PARAMETERS (24 hourly values in µg/m³)					ENVIRONMENT	
DATE(dd:mm:yy)) OF SAMPLING		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS	
FROM	TO	5	5	2	6	10	(Sky/Wind)	
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 TH September 2000		600	300	-	120	120		

PIT OFFICE NANADAN II UG: KNUA2							
DATE/-I-I	PARAMETERS (24 hourly values in μg/m³)					ENVIRONMENT	
DATE(dd:mm:yy)) OF SAMPLING		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS
FROM	TO	5	5	2	6	10	(Sky/Wind)
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 TH September 2000		600	300	-	120	120	

HEALTH CENTER-NANADAN UG: KNUA3								
PARAMETERS (24 hourly values in μg/m³)							ENVIRONMENT	
DATE(dd:mm:yy)) OF SAMPLING		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS	
FROM	TO	5	5	2	6	10	(Sky/Wind)	
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	
NAAC	S, 2009	-	100	60	80	80		

NANDAN WATER FILTER PLANT: KNWA4								
DATE/dd.ma.ma.u.u	A) A OF CAMPLING	PARAMETERS (24 hourly values in μg/m³)						
DATE(da:mm:y))) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS	
FROM	то	5	5	2	6	10	(Sky/Wind)	
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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CMPDI RI-IV, NAGPUR 2 of 4

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		ANALYSI	S RESULTS				
COLLECTION	рН	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.	5.5 - 9.0	100	250	10			
25/09/2000							

atmbhume

Analysed by

Deepanshu sahu Authorised Signatory

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CMPDI RI-IV, NAGPUR 3 of 4

NOISE LEVEL MONITORING DATA

FAN HOUSE UG II: KNUN1							
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)					
MONTH	COLLECTION	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				
	EGULATION AND CONTROL) RULES	75	70				

COLONY: KNUN2			
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
MONTH	COLLECTION	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
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

CMPDI RI-IV, NAGPUR 4 of 4

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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

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Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.	RT NO.			RIN/TR/FEB-21/76		DATE OF ISSUE		31.03.2021
NAME OF CUSTOME	R		GM(ENV.), WCL(HQ), NAGPUR					
CUSTOMER LETTER REFERENCE NO. WCL/HQ/ENV/14-I/588-615 DA			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: Use uidance document volume-II (part-II)-2.12:2016, NO $_2$: IS 5182 Part-06:2006(2017), S 2017)						• •	
NAME OF AREA			KANHAN			SAMPLING PLAN : LO	QR 47	
NAME OF PROJECT			NANDAN UG		'			•
SAMPLE DESCRIPTION Air sample			!		<u>-</u> '			
SAIVIFLE DESCRIPTIO	SAMPLING METHOD: LSOP 4							

	SAM OFFICE-NANDAN I UG: KNUA1									
DATE/ddumomous) \ OF CAMPLING		PARAMETERS	(24 hourly va	lues in μg/m³)	ENVIRONMENT			
DATE(dd:mm:yy	d:mm:yy)) OF SAMPLING SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂				CONDITIONS					
FROM	FROM TO		5	2	6	10	(Sky/Wind)			
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 COA	600	300	-	120	120					

	PIT OFFICE NANADAN II UG: KNUA2								
PARAMETERS (24 hourly values in µg/m³)							ENVIRONMENT		
DATE(dd:mm:yy	DATE(dd:mm:yy)) OF SAMPLING SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂				SO ₂	CONDITIONS			
FROM	FROM TO		5	2	6	10	(Sky/Wind)		
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 TH Sept	tember 2000	600	300	-	120	120			

	HEALTH CENTER-NANADAN UG: KNUA3								
DATE(dd:mm:yy)) OF SAMPLING PARAMETERS (24 hourly values in µg/m³)							ENVIRONMENT		
DATE(dd:mm:yy)) OF SAMPLING	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂					CONDITIONS		
FROM	TO	5	5	2	6	10	(Sky/Wind)		
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	NAAQS, 2009 - 100 60 80 80								

	NANDAN WATER FILTER PLANT: KNWA4								
DATE(dd:mm:yy)) OF SAMPLING PARAMETERS (24 hourly values in µg/m³)							ENVIRONMENT		
DATE(dd:mm:yy)) OF SAMPLING	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂					CONDITIONS		
FROM	TO	5	5	2	6	10	(Sky/Wind)		
05.02.2021	06.02.2021	132	87	26	9	BDL	Cloudy/Clam		
20.02.2021	20.02.2021 21.02.2021			25	12	BDL	Cloudy/Clam		
NAAQS	NAAQS, 2009 - 100 60 80 80								

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CMPDI RI-IV, NAGPUR 2 of 4

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	ANALYSIS RESULTS							
COLLECTION	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				

Analysed by

Deepanshu sahu **Authorised Signatory**

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NOISE LEVEL MONITORING DATA

	FAN HOUSE UG II:	KNUN1	
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)
MONTH	COLLECTION	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
	ON (REGULATION AND ROL) RULES	75	70

	COLONY:	KNUN2	
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)
MONTH	COLLECTION	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
	ON (REGULATION AND ROLES	55	45

CMPDI RI-IV, NAGPUR 4 of 4

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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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Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.		RIN/TR/MAR-21/76				DATE OF ISSUE		28.04.2021
NAME OF CUSTOME	R		GM(ENV.), WCL(HQ), NAGPUR					
CUSTOMER LETTER F	REFERENCE N	0.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20					
TEST REQUIRED		PM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assur uidance document volume-II (part-II)-2.12:2016, NO $_2$: IS 5182 Part-06:2006(2017), SO $_2$:IS 5182 Part-2:2017)						
NAME OF AREA	•		KANHAN			SAMPLING PLAN : LC	QR 47	
NAME OF PROJECT		NANDAN UG					=	
NAME OF PROJECT								
SAMPLE DESCRIPTIO	N	Air sample						

	SAM OFFICE-NANDAN I UG: KNUA1								
DATE/dd.momo.u.u.	A A OF CAMPLING		PARAMETERS	(24 hourly va	lues in μg/m³)		ENVIRONMENT		
DATE(dd:mm:yy	DATE(dd:mm:yy)) OF SAMPLING SPM PM ₁₀ PM _{2.5} NO ₂ SO			SO ₂	CONDITIONS				
FROM	FROM TO		5	2	6	10	(Sky/Wind)		
06.03.02021	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 TH September 2000		600	300	-	120	120			

	PIT OFFICE NANADAN II UG: KNUA2								
DATE/dd.mama.uu	/ / OE CANADUNIC		PARAMETERS	(24 hourly va	lues in μg/m³)		ENVIRONMENT		
DATE(dd:mm:yy)) OF SAMPLING SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂					CONDITIONS				
FROM	TO	5	5	2	6	10	(Sky/Wind)		
05.03.2021	06.03.2021	325	201	41	14	BDL	Cloudy/Calm		
22.03.2021	23.03.2021	309	190	36	16	11	Cloudy/Calm		
STANDARDS FOR COA									
dt. 25 [™] Sept	tember 2000	600	300	-	120	120			

	HEALTH CENTER-NANADAN UG: KNUA3						
PARAMETERS (24 hourly values in µg/m³)						ENVIRONMENT	
DATE(dd.IIIII.yy	DATE(dd:mm:yy)) OF SAMPLING SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂			CONDITIONS			
FROM	TO	5	5	2	6	10	(Sky/Wind)
06.03.2021	07.03.2021	126	78	24	9	BDL	Cloudy/Calm
21.03.2021	22.03.2021	137	85	29	11	BDL	Cloudy/Calm
NAAQ:	S, 2009	-	100	60	80	80	

	NANDAN WATER FILTER PLANT: KNWA4						
DATE(dd:mm:yy	A A OF CAMPLING	PARAMETERS (24 hourly values in μg/m³)				ENVIRONMENT	
DATE(dd.IIIII.yy	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS	
FROM	TO	5	5	2	6	10	(Sky/Wind)
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	-	100	60	80	80		



Deepanshu sahu
Authorised Signatory

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CMPDI RI-IV, NAGPUR 2 of 4

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	ISOP 5

MINE WATER DISCHARGE: KNUW1							
DATE OF SAMPLE		ANALYSI	S RESULTS				
COLLECTION	pН	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

	FAN HOUSE UG II:	KNUN1	
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)
MONTH	COLLECTION	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
,	EGULATION AND CONTROL) RULES	75	70

	COLONY:	KNUN2	
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)
MONTH	COLLECTION	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
,	EGULATION AND CONTROL) RULES	55	45

CMPDI RI-IV, NAGPUR 4 of 4

ENVIRONMENTAL AUDIT STATEMENT (FORM-V)

Nandan WasheryKanhan Area

FY 2020-21

Prepared by-



WESTERN COALFIELDS LIMITED KANHAN AREA DUNCADIA CHUNDWADA (MD) 48055

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 13th 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 PenchKanhan 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_2 , NO_x 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

Sno.	Water Consumption Category	Quantity/usage (in
a)	Industrial	KL/day)
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)	Domestic	
i.	Domestic use	225 KL/day
ii.	Green Belt/Plantation	Nil
	TOTAL	225 KL/day

<u>Table-B Water Consumption against Production (including recycled)</u>

Name of Product	Water Consumption per	unit of product (including
	recycled)	
	During the previous FY	During the current FY 2020-
	2019-20	21
Coal V	Vashing operation closed since Fe	eb 2017

Table-C Raw Material Consumption

Name material	of	raw	Name of product	Consumption of raw n	naterial per unit of
				During the previous FY 2019-20	During the current FY 2020-21
			Coal Washing opera	ation closed since Feb 2017	

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	Value of parameters
b)	Air	2020-21.	are well within the
c)	Noise		permissible 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	Not Ap	plicable	
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			
b)	From Pollution Control Facilities			
c)	Quantity recycled or dumped within quarry void	Not Applicable.		
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) Clarrifer of 13000 m³ 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:

Sr. No.	Particulars	Amount
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

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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.),WO	CL(HQ), NAGPU	R	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFEI	WCL/HQ/ENV/	′14-I/588-61	5 DATED: 15.06.20		
SPM: IS 5182 Part-4:199			2019), PM-	10: IS-5182 Part 23:2006(RA 2017), PM2.5:
TEST REQUIRED	USEPA Qualit	y Assurance gui	idance docu	ment volume-II (part-II)-2	.12:2016, NOx: IS
5182 Part-06:2006(2017),) ₂ :IS 5182 Pa	art-2:2001(RA 2017)	
NAME OF AREA	KANHAN ARE	A		SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	NANDAN WA	SHERY		SAMPLING PLAN : LQR 47	

SUBSTATION: KNWA1						
DATE OF	Р	ARAMETERS (2	4 hourly valu	ues in μg/m	n ³)	
SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂	
DETECTION LIMIT	5	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	Р	PARAMETERS (24 hourly values in μg/m³)				
SAMPLING	SPM	SPM PM ₁₀ PM _{2,5} NO _X SO ₂				
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	Р	ARAMETERS (2	4 hourly valu	ues in μg/m	1 ³)	
SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂	
DETECTION LIMIT	5	5 5 2 6 10				
08.05.2020	95 66 26 12 <10					
29.05.2020	68 45 24 11 <10					
TLV	200	200 100 60 80 80				

NAN	NANDAN WATER FILTER PLANT: KNWA4					
DATE OF	Р	PARAMETERS (24 hourly values in μg/m ³)				
SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO _X SO ₂				
DETECTION LIMIT	5	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					



DEEPANSHU SAHU AUTHORIZED SIGNATORY

SCIENTIFIC ASSISTANT

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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	NOISE LEVEL IN dB(A)					
	COLLECTION		NIGHT TIME				
MAY-2020	13.05.2020	46.7	42.9				
MAY-2020	28.05.2020	47.7	44.9				
	TLV	75	70				

	COLONY: KNWN2						
MONTH	DATE OF DATA	NOISE LEVEL IN dB(A)					
	COLLECTION		NIGHT TIME				
MAY-2020	13.05.2020	44.6	41.5				
MAY-2020 28.05.2020		45.4	43.6				
	TLV	55	45				

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ENVIRONMENTAL MONITORING REPORT

NANDAN WASHERY

KANHAN AREA

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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/JUNE-20/A70			DATE OF ISSUE	31-07-20
NAME OF CUSTOMER	GM(ENV.),W0	CL(HQ), NAGPU	R	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO. WCL/HQ/ENV			′14-I/588-61	5 DATED: 15.06.20	
	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5:				
TEST REQUIRED	USEPA Qualit	y Assurance gui	idance docu	ment volume-II (part-II)-2	.12:2016, NOx: IS
	5182 Part-06:	2006(2017), SC) ₂ :IS 5182 Pa	art-2:2001(RA 2017)	
NAME OF AREA	KANHAN ARE	:A		SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	NANDAN WA	SHERY		SAMPLING PLAN : LQR 47	

SUBSTATION: KNWA1							
DATE OF	Р	ARAMETERS (2	4 hourly valu	ues in μg/m	n ³)		
SAMPLING	SPM	SPM PM ₁₀ PM _{2,5} NO _X SO ₂					
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	Р	PARAMETERS (24 hourly values in μg/m³)					
SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO _X SO ₂					
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	Р	PARAMETERS (24 hourly values in μg/m³)						
SAMPLING	SPM	SPM PM ₁₀ PM _{2,5} NO _X SO ₂						
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	Р	PARAMETERS (24 hourly values in μg/m³)					
SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO _X SO ₂					
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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SCIENTIFIC ASSISTANT

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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	NOISE LEVEL IN dB(A)			
	COLLECTION	DAY TIME			
JUNE 2020	13-06-20	45.5			
JUNE 2020	18-06-20	45.7			
	TLV	75			

COLONY: KNWN2					
MONTH	DATE OF DATA	NOISE LEVEL IN dB(A)			
	COLLECTION	DAY TIME			
JUNE 2020	13-06-20	44.3			
JUNE 2020	18-06-20	43.9			
	TLV	55			

Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.			RIN/TR/JULY	-20/77		DATE OF ISSUE	31.08.2020
NAME OF CUSTOMER			GM(ENV.), W	/CL(HQ), NAG	PUR		
CUSTOMER LETTER REFERENCE NO.			WCL/HQ/EN	V/14-I/588-6	15 DATED: 15.0	06.20	
TEST REQUIRED	guidance	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 ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)					
NAME OF AREA	*		KANHAN			SAMPLING PLAN: LQR 47	
NAME OF PROJECT		NANDAN WA	SHERY		,	_	
SAMPLE DESCRIPTION Air sample				<u>.</u>			
SAMPLING METHOD : LSOP 4				=			

SUBSTATION: KNWA1							
PARAMETERS (24 hourly values in µg/m³)					ENVIRONMENT		
DATE(dd.IIIII.yy	DATE(dd:mm:yy)) OF SAMPLING SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂			SO ₂	CONDITIONS		
FROM	TO	5	5	2	6	10	(Sky/Wind)
13-Jul-20	14-Jul-20	83	52	32	10	<10	CLOUDY SKY, CALM
26-Jul-20	27-Jul-20	92	92 64 29 11 <10			<10	CLOUDY SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E),		500	200		420	420	
dt. 25 TH September 2000		600	300	-	120	120	

	SAM OFICE NANDAN I UG: KNUA1							
DATE(dd:mm:yy)) OE SAMBLING		PARAMETERS	(24 hourly va	lues in μg/m³)	ENVIRONMENT	
DATE(dd.iiiii.yy)) OF SAIVIPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS	
FROM	TO	5	5	2	6	10	(Sky/Wind)	
13-Jul-20	14-Jul-20	63	46	34	10	<10	CLOUDY SKY, CALM	
26-Jul-20	26-Jul-20 27-Jul-20 71		55	30	12	<10	CLOUDY SKY, CALM	
STANDARDS FOR COAL MINE, GSR 742(E),		500	200		120	120		
dt. 25 TH September 2000		600	300	-	120	120		

	COLONY GUEST HOUSE: KNWA3							
DATE/dd:mm:u	DATE(dd:mm:yy)) OF SAMPLING PARAMETERS (24 hourly values in µg/m³)							
DATE(dd.iiiii.y	y)) OF SAIVIPLING	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂			CONDITIONS			
FROM	TO	5	5	2	6	10	(Sky/Wind)	
13-Jul-20	14-Jul-20	77	44	27	14	<10	CLOUDY SKY, CALM	
26-Jul-20	26-Jul-20 27-Jul-20			27	16	11	CLOUDY SKY, CALM	
NAAC	NAAQS, 2009 - 100 60 80 80							

	NANDAN WATER FILTER PLANT: KNWA4							
DATE(III	ENVIRONMENT							
DATE(dd:mm:y)	/)) OF SAMPLING	SPM	PARAMETERS (24 hourly values in µg/m³) SPM PM ₁₀ PM ₂₅ NO ₂ SO ₂			CONDITIONS		
FROM	TO	5	5	2	6	10	(Sky/Wind)	
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	
NAAC	-	100	60	80	80			



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CMPDI RI-IV, NAGPUR 1 of 2

NOISE LEVEL MONITORING DATA

	WASHERY:	KNWN1				
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)				
MONTH	COLLECTION	DAY TIME				
	DETECTION LIMIT	20				
JULY.2020	13-Jul-20	44.7				
JULY.2020	26-Jul-20	44.9				
NOISE POLLUTION (R	75					
	RULES					

CC	COLONY(NANDAN WASHERY)						
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)					
MONTH	COLLECTION	DAY TIME					
	DETECTION LIMIT						
JULY.2020	13-Jul-20	44.4					
JULY.2020	JULY.2020 26-Jul-20						
NOISE POLLUTION (R	55						

CMPDI RI-IV, NAGPUR 2 of 2

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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

Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.	EST REPORT NO.		RIN/TR/AUG	UST-20/77		DATE OF ISSUE	30.09.2020
NAME OF CUSTOMER GM(ENV.)			GM(ENV.), W	M(ENV.), WCL(HQ), NAGPUR			
CUSTOMER LETTER REFERENCE NO.		WCL/HQ/EN	NCL/HQ/ENV/14-I/588-615 DATED: 15.06.20				
TECT DECLUDED	SPM: IS 51	.82 Part-4:1	999(RA 2019)	(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance			
TEST REQUIRED	guidance o	document v	olume-II (part	-II)-2.12:2016, N	NO ₂ : IS 5182	Part-06:2006(2017), SO ₂ :	IS 5182 Part-2:2001(RA
NAME OF AREA			KANHAN			SAMPLING PLAN : LQR 4	7
NAME OF PROJECT	NAME OF PROJECT		NANDAN WA	ASHERY			 ;
SAMPLE DESCRIPTION Air sample				-			
SAMPLING METHOD : LSOP 4			-				

	SUBSTATION: KNWA1									
DATE(dd:mm:\v)	PARAMETERS (24 hourly values in μg/m³) m:yy)) OF SAMPLING						ENVIRONMENT			
DATE(dd.min.yy)	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS (Sky/Wind)				
FROM	ТО	5	5	2	6	10	(Sky/Willa)			
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 COA	, , , , , ,	600	300	-	120	120				

	SAM OFICE NANDAN I UG: KNUA1							
DATE(dd:mm:yy)) OF CAMPLING	PARAMETERS (24 hourly values in μg/m³)					ENVIRONMENT	
DATE(dd.IIIII.yy)	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS		
FROM	TO	5	5 5 2 6 10			(Sky/Wind)		
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),		C00	200		120	120		
dt. 25 TH September 2000		600	300	-	120	120		

	COLONY GUEST HOUSE: KNWA3							
DATE/ddamana.uu	DATE(dd:mm:yy)) OF SAMPLING PARAMETERS (24 hourly values in µg/m³)						ENVIRONMENT	
DATE(dd:mm:yy)) OF SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂			CONDITIONS		
FROM	TO	5	5	2	6	10	(Sky/Wind)	
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	
NAAQ	5, 2009	-	100	60	80	80		

	NANDAN WATER FILTER PLANT: KNWA4						
DATE/ddamana.uu	A OF CAMPLING		PARAMETERS (24 hourly values in μg/m³)				ENVIRONMENT
DATE(dd:mm:yy))) OF SAIVIPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO			SO ₂	CONDITIONS
FROM	TO	5	5	2	6	10	(Sky/Wind)
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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CMPDI RI-IV, NAGPUR 2 of 3

NOISE LEVEL MONITORING DATA

	WASHERY:	KNWN1				
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)				
MONTH	COLLECTION	DAY TIME				
	DETECTION LIMIT	20				
Aug-20	10.08.2020	43.9				
Aug-20	23.8.2020	43.1				
NOISE POLLUTION (I	75					
	RULES					

CC	KNWN2	
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)
MONTH	COLLECTION	DAY TIME
	DETECTION LIMIT	20
Aug-20	10.08.2020	43.7
Aug-20	23.8.2020	42.2
NOISE POLLUTION (R	55	
	RULES	

CMPDI RI-IV, NAGPUR 3 of 3

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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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Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.			RIN/TR/SEPTEMBER-20/77		DATE OF ISSUE	30.10.2020		
NAME OF CUSTOMER		GM(ENV.), W	GM(ENV.), WCL(HQ), NAGPUR					
CUSTOMER LETTER REFERENCE NO.			WCL/HQ/ENV	V/14-I/588-615	DATED: 15.0	6.20		
TECT DECLIDED	SPM: IS 51	82 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance						
	guidance o	guidance document volume-II (part-II)-2.12:2016, NO ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:200						
NAME OF AREA	•		KANHAN			SAMPLING PLAN: LQR 47		
NAME OF PROJECT		NANDAN WASHERY				_		
SAMPLE DESCRIPTION Air sample								
SAMPLING METHOD	: LSOP 4			-				

	SUBSTATION: KNWA1 PARAMETERS (24 hourly values in µg/m³)										
DATE(dd:mm:yy))	ENVIRONMENT								
DATE(dd.min.yy)	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS (Sky/Wind)					
FROM	ТО	5	5	2	6	10	(Sky/ Willa)				
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 TH September 2000		600	300	-	120	120					

	SAM OFICE NANDAN I UG: KNUA1									
DATE/dd.mo.mo.u.u./		ENVIRONMENT								
DATE(dd:mm:yy)	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS				
FROM	TO	5	5	2	6	10	(Sky/Wind)			
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 TH September 2000		600	300	-	120	120				

	COLONY GUEST HOUSE: KNWA3									
DATE/dd.com.com	L) OF CAMPUNIC		PARAMETERS (24 hourly values in μg/m³)							
DATE(dd:mm:yy,	DATE(dd:mm:yy)) OF SAMPLING		PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS			
FROM	TO	5	5	2	6	10	(Sky/Wind)			
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: KNWA4										
DATE/ddumomous	A A O E CAMADI INC		PARAMETERS (24 hourly values in μg/m³)				ENVIRONMENT				
DATE(dd:mm:yy)) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS				
FROM	TO	5	5	2	6	10	(Sky/Wind)				
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				
NAAQ:	NAAQS, 2009		100	60	80	80					



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CMPDI RI-IV, NAGPUR 2 of 3

NOISE LEVEL MONITORING DATA

	WASHERY:	KNWN1			
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)		
MONTH	COLLECTION	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		
NOISE POLLUTION (R	EGULATION AND CONTROL)	75	70		
	RULES	/3	70		

co	LONY(NANDAN WASHERY):	KNWN2			
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)			
MONTH	COLLECTION	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		
NOISE POLLUTION (R	EGULATION AND CONTROL)	55			
	RULES	25	45		

CMPDI RI-IV, NAGPUR 3 of 3

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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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Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



								
TEST REPORT NO.			RIN/TR/OCTOBER-20/77			DATE OF ISSUE		30.11.2020
NAME OF CUSTOMER GM(ENV.),			GM(ENV.), W	/CL(HQ), NAGPI	JR			
CUSTOMER LETTER REFERENCE NO. WCL/H				V/14-I/588-615	DATED: 15.0	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 Assura guidance document volume-II (part-II)-2.12:2016, NO ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:20 2017)						•	
NAME OF AREA	•		KANHAN			SAMPLING PLAN : LQ	R 47	
NAME OF PROJECT		NANDAN WA	SHERY				_	
SAMPLE DESCRIPTION Air sample		:		1 1				
SAMPLING METHOD : LSOP 4				= "				

	SUBSTATION: KNWA1										
DATE/dd:mm:\av		PARAMETERS	ENVIRONMENT								
DATE(dd:mm:yy)) OF SAMPLING		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS (Sky/Wind)				
FROM	ТО	5	5	2	6	10	(SKY/WIIIU)				
07.10.20	08.10.20	79	60	30	16	14	CLEAR SKY,LIGHT BREEZE				
21.10.20	21.10.20 22.10.20		147	50	11	BDL	CALM/CLEAR SKY				
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120					

	SAM OFICE NANDAN I UG: KNUA1									
DATE/dd.mo.mo.u.u./	A OF CAMPLING		ENVIRONMENT							
DATE(dd:mm:yy)	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS				
FROM	TO	5	5	2	6	10	(Sky/Wind)			
07.10.20	08.10.20	75	44	21	10	BDL	CLEAR SKY,LIGHT BREEZE			
21.10.20	21.10.20 22.10.20		165	42	12	BDL	CALM/CLEAR SKY			
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120				

COLONY GUEST HOUSE: KNWA3											
DATE/ddummers u.a.	A) OF CAMPLING		ENVIRONMENT								
DATE(da:mm:y))) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS				
FROM	TO	5	5	2	6	10	(Sky/Wind)				
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: KNWA4										
PARAMETERS (24 hourly values in µg/m³) ENVIRONMENT											
DATE/dd)		ENVIRONMENT								
DATE(dd:mm:yy)) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS				
FROM	TO	5	5	2	6	10	(Sky/Wind)				
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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CMPDI RI-IV, NAGPUR 2 of 3

	WASHERY:	KNWN1			
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)			
MONTH	COLLECTION	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		
NOISE POLLUTION (R	EGULATION AND CONTROL)	75	70		
	RULES	/3	70		

co	LONY(NANDAN WASHERY):	KNWN2			
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)			
MONTH	COLLECTION	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		
NOISE POLLUTION (R	EGULATION AND CONTROL)	55	45		
	RULES	55	45		

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ENVIRONMENTAL MONITORING REPORT

NANDAN WASHERY

KANHAN AREA 2

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



NOVEMBER 2020

Environment Laboratory

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Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.	RIN/TR/NOV-20/77					DATE OF ISSUE		31.12.2020
NAME OF CUSTOMER	₹		GM(ENV.), W	/CL(HQ), NAGPL	IR			
CUSTOMER LETTER R	EFERENCE NO. WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20							
SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA guidance document volume-II (part-II)-2.12:2016, NO ₂ : IS 5182 Part-2017)				, ,,		• •		
NAME OF AREA	•		KANHAN			SAMPLING PLAN : LQ	R 47	
NAME OF PROJECT NANDAN N			NANDAN WA	SHERY				-
SAMPLE DESCRIPTION Air sample			!					
SAMPLING METHOD	SAMPLING METHOD : LSOP 4							

	SUBSTATION: KNWA1								
DATE(dd:mm:yy)) OF SAMPLING						ENVIRONMENT		
,	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS (Sky/Wind)			
FROM	то	5	5	2	6	10	(Sky/ Willu)		
07.11.20	08.11.20	223	154	62	14	12	Cloudy/Calm		
22.11.20	22.11.20 23.11.20		173	69	12	BDL	Clear/Calm		
STANDARDS FOR COAL MINE, GSR 742(E),		600	200		120	120			
dt. 25 TH September 2000		600	300	-	120	120			

SAM OFICE NANDAN I UG: KNUA1									
DATE/III	\ \ OF CANADURIO		PARAMETERS	(24 hourly va	llues in μg/m ³)	ENVIRONMENT		
DATE(dd:mm:yy	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS			
FROM	TO	5	5	2	6	10	(Sky/Wind)		
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),		600	300	_	120	120			
dt. 25 TH September 2000		000	300	_	120	120			

	COLONY GUEST HOUSE: KNWA3								
DATE/dd.mo.mo.u.u.)) OF CANADI INC		PARAMETERS	24 hourly va	ilues in μg/m³)	ENVIRONMENT		
DATE(dd:mm:yy	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS			
FROM	TO	5	5	2	6	10	(Sky/Wind)		
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/m³))	ENVIRONMENT		
DATE(dd:mm:y	y)) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS		
FROM	TO	5	5	2	6	10	(Sky/Wind)		
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			
NAAC	QS, 2009	-	- 100 60 80 80						

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	WASHERY:	KNWN1			
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)			
MONTH	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		
NOISE POLLUTION (R	EGULATION AND CONTROL)	75	70		
	RULES	75	70		

СО	LONY(NANDAN WASHERY):	KNWN2		
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)		
MONTH	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	
•	EGULATION AND CONTROL) RULES	55	45	

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ENVIRONMENTAL MONITORING REPORT

NANDAN WASHERY

KANHAN AREA 2

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

Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST DEDORT NO	TEST REPORT NO. RIN/TR/DEC-2			20/77		DATE OF ISSUE		21 01 2021
			· ·			DATE OF ISSUE		31.01.2021
NAME OF CUSTOMER GM(ENV.), \			GM(ENV.), W	/CL(HQ), NAGPL	JR			
CUSTOMER LETTER REFERENCE NO. WCL/HQ/EN			WCL/HQ/EN\	V/14-I/588-615	DATED: 15.0	06.20		
SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5 guidance document volume-II (part-II)-2.12:2010 2017)				•		, ,,		. ,
NAME OF AREA	•		KANHAN	KANHAN		SAMPLING PLAN : LQ	R 47	
NAME OF PROJECT NANDAN V			NANDAN WA	SHERY		,		-
SAMPLE DESCRIPTION Air sample								
SAMPLING METHOD	LSOP 4			_				

	SUBSTATION: KNWA1								
DATE(dd:mm:)vv)) OE SAMBLING		ENVIRONMENT						
DATE(dd:mm:yy)) OF SAMPLING		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS (Sky/Wind)		
FROM	ТО	5	5 5	2	6	10	(Sky) Willa)		
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 CO. dt. 25 TH Sept	600	300	-	120	120				

SAM OFICE NANDAN I UG: KNUA1									
DATE/III)		PARAMETERS	(24 hourly va	llues in μg/m ³)	ENVIRONMENT		
DATE(dd:mm:yy	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS			
FROM	TO	5	5	2	6	10	(Sky/Wind)		
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 TH September 2000		600	300	-	120	120			

COLONY GUEST HOUSE: KNWA3									
DATE/dd.mama.u.u.	PARAMETERS (24 hourly values in μg/m³)								
DATE(dd:mm:yy	DATE(dd:mm:yy)) OF SAMPLING SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂						CONDITIONS		
FROM	TO	5	5	2	6	10	(Sky/Wind)		
8.12.20	9.12.20	137	99	30	11	BDL	Clear/Calm		
22.12.20	22.12.20 23.12.20 122 83 25 12 BDL						Clear/Calm		
NAAQ	S, 2009	-	100	60	80	80			

	NANDAN WATER FILTER PLANT: KNWA4									
DATE/dd	\		PARAMETERS (24 hourly values in μg/m³)							
DATE(dd:mm:yy	DATE(dd:mm:yy)) OF SAMPLING SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂									
FROM	TO	5	5	2	6	10	(Sky/Wind)			
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			
NAAQ:	5, 2009	-	100	60	80	80				

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	WASHERY:	KNWN1			
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)			
MONTH	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		
NOISE POLLUTION (R	EGULATION AND CONTROL)	75	70		
	RULES	/5	70		

СО	LONY(NANDAN WASHERY):	KNWN2	
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)
MONTH	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
•	EGULATION AND CONTROL) RULES	55	45

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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

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REGIONAL INSTITUTE-IV, KASTURBA NAGAR, JARIPATKA, NAGPUR, PIN – 440 014

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Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.			RIN/TR/JAN-21/77		DATE OF ISSUE	28.02.2021		
NAME OF CUSTOMER GM(ENV.), WCL(HQ), NAGPUR				IR .	<u>.</u>			
CUSTOMER LETTER REFERENCE NO. WCL/HQ/ENV/14-I/588-615 DATED: 1				DATED: 15.06.20	TED: 15.06.20			
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 P guidance document volume-II (part-II)-2.12:2016, NO 2017)				, "	• •		
NAME OF AREA			KANHAN		SAMPLING PLAN : LQR	47		
NAME OF PROJECT NANDAN W			NANDAN WA	SHERY		<u> </u>		
SAMPLE DESCRIPTION Air sample			<u>;</u>					
SAMPLING METHOD : LSOP 4			_					

SUBSTATION: KNWA1								
DATE(dd:mm:vv)) OF SAMPLING		ENVIRONMENT					
DATE(dd.min.yy)) OI SAWII EING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS (Sky/Wind)	
FROM	ТО	5	5	2	6	10	(Sky) Willay	
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 CO. dt. 25 TH Sept	600	300	-	120	120			

SAM OFICE NANDAN I UG: KNUA1								
PARAMETERS (24 hourly values in µg/m³)							ENVIRONMENT	
DATE(dd:mm:yy)) OF SAMPLING SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂						CONDITIONS		
FROM	FROM TO			2	6	10	(Sky/Wind)	
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 COA	600	200		120	120			
dt. 25 TH Sept	600	300	-	120	120			

COLONY GUEST HOUSE: KNWA3									
DATE(dd:mm:yy)) OF SAMPLING PARAMETERS (24 hourly values in µg/m³)							ENVIRONMENT		
DATE(dd.IIIII.yy)) OF SAMPLING	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂					CONDITIONS		
FROM	TO	5	5 5 2 6 10				(Sky/Wind)		
07.01.2021	08.01.2021	121	82	28	11	BDL	Cloudy/Calm		
20.01.2021	21.01.2021	117	77	BDL	Cloudy/Calm				
NAAQS	5, 2009	-	100	60	80	80			

	NANDAN WATER FILTER PLANT: KNWA4								
DATE/dd:mm;;;u/	ENVIRONMENT								
DATE(dd.IIIII.yy)	DATE(dd:mm:yy)) OF SAMPLING SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂								
FROM	TO	5	5 5	2	6	10	(Sky/Wind)		
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	NAAQS, 2009 - 100 60 80 80								

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	WASHERY:	KNWN1			
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)			
MONTH	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		
NOISE POLLUTION (R	EGULATION AND CONTROL)	75	70		
	RULES	/5	70		

СО	LONY(NANDAN WASHERY):	KNWN2			
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)			
MONTH	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		
•	EGULATION AND CONTROL) RULES	55	45		

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ENVIRONMENTAL MONITORING REPORT

NANDAN WASHERY

KANHAN AREA 2

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



FEBRUARY 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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Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.	TEST REPORT NO.		RIN/TR/FEB-21/77		DATE OF ISSUE		31.03.2021	
NAME OF CUSTOMER			GM(ENV.), WCL(HQ), NAGPUR					
CUSTOMER LETTER R	EFERENCE I	NO.	WCL/HQ/EN\	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-4:1999(RA 2019), PM-10: IS-518							
NAME OF AREA			KANHAN	KANHAN SAMPLING PLAN : LQR 47				
NAME OF PROJECT NA			NANDAN WA	NANDAN WASHERY				_
SAMPLE DESCRIPTION Air sample								
SAMPLING METHOD	: LSOP 4			-				

			SUBSTATION:	KNWA1			
DATE(dd:mm:yy)) OF SAMPLING			ENVIRONMENT				
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS (Sky/Wind)
FROM	ТО	5	5	2	6	10	(Sky, Willa)
05.02.2021	06.02.2021	304	209	39	17	14	Cloudy/Clam
20.02.2021	20.02.2021 21.02.2021		193	44	15	12	Cloudy/Clam
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

	SAM OFICE NANDAN I UG: KNUA1									
DATE/ dal)		ENVIRONMENT							
DATE(dd:mm:yy	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS				
FROM	TO	5	5	2	6	10	(Sky/Wind)			
05.02.2021	06.02.2021	274	188	33	16	11	Cloudy/Calm			
21.02.2021	21.02.2021 22.02.2021		191	29	14	BDL	Cloudy/Calm			
STANDARDS FOR COAL MINE, GSR 742(E),		600	200		420	420				
dt. 25 TH Sep	dt. 25 TH September 2000		300	-	120	120				

	COLONY GUEST HOUSE: KNWA3									
DATE/dd.mom.u.u.	L) OF CAMPLING		ENVIRONMENT							
DATE(dd:mm:yy)	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS				
FROM	TO	5	5	2	6	10	(Sky/Wind)			
06.02.2021	07.02.2021	139	91	24	10	BDL	Cloudy/Clam			
20.02.2021	20.02.2021 21.02.2021		88	27	11	BDL	Cloudy/Clam			
NAAQS	NAAQS, 2009		100	60	80	80				

	NANDAN WATER FILTER PLANT: KNWA4								
DATE/dd	.\ \ OE CANADUNIC	alues in μg/m³)	ENVIRONMENT					
DATE(dd:mm:yy)) OF SAMPLING		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS		
FROM	TO	5	5	2	6	10	(Sky/Wind)		
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		
NAAC	(S, 2009	-	100	60	80	80			

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	WASHERY:	KNWN1		
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)		
MONTH	COLLECTION	DAY TIME	NIGHT TIME	
	DETECTION LIMIT	20	20	
FEB'21	04.02.2021	45.9	43.8	
FEB'21	19.02.2021	45.7 43.4		
NOISE POLLUTION	ON (REGULATION AND	75	70	
CONT	ROL) RULES	/5	70	

СО	LONY(NANDAN WASHERY):	KNWN2			
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)			
MONTH	COLLECTION	DAY TIME	NIGHT TIME		
	DETECTION LIMIT	20	20		
FEB'21	04.02.2021	45.8	43.7		
FEB'21	19.02.2021	45.6	43.2		
	ON (REGULATION AND ROLES	55	45		

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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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Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.			RIN/TR/MAR-	-21/77		DATE OF ISSUE		28.04.2021
NAME OF CUSTOM	ER		GM(ENV.), WCL(HQ), NAGPUR					
CUSTOMER LETTER	REFERENCE N	10.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20					
TEST REQUIRED	1		4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality A at volume-II (part-II)-2.12:2016, NO $_2$: IS 5182 Part-06:2006(2017), SO $_2$:IS 5182 Part					
NAME OF AREA			KANHAN			SAMPLING PLAN : LC	R 47	
NAME OF PROJECT			NANDAN WASHERY					<u>=</u>
SAMPLE DESCRIPTION	NC	Air sample	!					
SAMPLING METHO	D : LSOP 4	•		•				

	SUBSTATION: KNWA1									
DATE(dd:mm:\v/)) OE SAMBLING		ENVIRONMENT							
DATE(dd:mm:yy)) OF SAMPLING		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS (Sky/Wind)			
FROM	ТО	5	5	2	6	10	(5,, *********************************			
06.03.2021	07.03.2021	255	178	34	12	BDL	Cloudy/Clam			
22.03.2021	22.03.2021 23.03.2021		181	29	15	11	Cloudy/Clam			
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120				

SAM OFICE NANDAN I UG: KNUA1								
DATE/dd.mama.u.u.) \ OF CAMPLING		PARAMETERS	ENVIRONMENT				
DATE(dd:mm:yy)) OF SAMPLING		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS	
FROM	TO	5	5	2	6	10	(Sky/Wind)	
06.03.02021	07.03.2021	265	191	31	12	BDL	Cloudy/Calm	
23.03.2021	23.03.2021 24.03.2021		188	35	14	BDL	Cloudy/Calm	
STANDARDS FOR COAL MINE, GSR 742(E),		500	200		422	420		
dt. 25 TH September 2000		600	300	-	120	120		

	COLONY GUEST HOUSE: KNWA3								
DATE/dd:mmua	A) OF CAMPLING		ENVIRONMENT						
DATE(dd.IIIII.yy	DATE(dd:mm:yy)) OF SAMPLING		PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS		
FROM	TO	5	5	2	2 6	10	(Sky/Wind)		
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.mama.u.u	ENVIRONMENT								
DATE(dd:mm:yy)) OF SAMPLING		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS		
FROM	TO	5	5	2	6	10	(Sky/Wind)		
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		
NAAQ	S, 2009	-	100	60	80	80			



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	WASHERY:	KNWN1		
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)		
MONTH	COLLECTION	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	
NOISE POLLUTION (F	REGULATION AND CONTROL) RULES	75	70	

CO	LONY(NANDAN WASHERY):	KNWN2	
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)
MONTH	COLLECTION	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
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

ENVIRONMENTAL AUDIT STATEMENT (FORM-V)

Regional Workshop Kanhan Area

FY 2020-21

Prepared by-



WESTERN COALFIELDS LIMITED KANHAN AREA DINGARIA CHHINDWARA (MD)-48055

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 13th 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_2 , NO_x 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 WORKSHOPFINANCIAL 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

Sno.	Water Consumption Category	Quantity/usage (in KL/day)
a)	Industrial	-
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)	Domestic	
i.	Domestic use	Nil
ii.	Green Belt/Plantation	Nil
	TOTAL	01 KL/day

Table-B Water Consumption against Production (including recycled)

Name of Product	1 1	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 material	of	raw	Name of product	Consumption of raw r	material per unit o	of
				During the previous FY 2019-20	During the current FY 2020-21	nt
	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	Value of parameters
b)	Air	2020-21.	are well within the
c)	Noise		permissible 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	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:

Sr. No.	Particulars	Amount
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

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SI. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4
4	NOISE LEVEL DATA	5

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), NAGP	UR	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 ₂ :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	PARAMETERS (24 hourly values in μg/m³)								
SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO _X SO ₂							
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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CMPDI RI-IV, NAGPUR

4

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)					
	COLLECTION	DAY TIME					
JUNE 2020	11-06-20	51.9					
JUNE 2020	25-06-20	56.3					
	TLV	75					

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Test Report



TEST REPORT NO.		RIN/TR/JULY-20/70		DATE OF ISSUE	31.08.2020		
NAME OF CUSTOMER			GM(ENV.), W	VCL(HQ), NAG	PUR		
CUSTOMER LETTER REFERENCE NO.			WCL/HQ/EN	V/14-I/588-61	.5 DATED: 15.	06.20	
TEST REQUIRED	guidance	M: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance dance document volume-II (part-II)-2.12:2016, NO $_2$: IS 5182 Part-06:2006(2017), SO $_2$:IS 5182 Part-001(RA 2017)					
NAME OF AREA			KANHAN			SAMPLING PLAN: LQR 47	
NAME OF PROJECT		AREA WORK	SHOP		,		
SAMPLE DESCRIPTION Air sample		Air sample					
SAMPLING METHOD : LSOP 4				- !			

AREA WORKSHOP: KAWA1										
DATE/dd:mmuu	y)) OF SAMPLING		PARAMETERS (24 hourly values in μg/m³)							
DATE(dd.IIIII.yy	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂		CONDITIONS						
FROM	M TO		5	2	6	10	(Sky/Wind)			
17-Jul-20	18-Jul-20	87	55	23	14	<10	CLOUDY SKY, CALM			
STANDARDS FOR COAL MINE, GSR 742(E),		500	200		120	120				
dt. 25 TH September 2000		600	300	-	120	120				

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	W/S PRIMISES	KAWN1
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)
MONTH	COLLECTION	DAY TIME
	DETECTION LIMIT	20
JULY.2020	15-Jul-20	43.9
JULY.2020	17-Jul-20	44.9
NOISE POLLUTION (R	75	

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ENVIRONMENTAL MONITORING REPORT

KANHAN AREA

AREA WORKSHOP

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



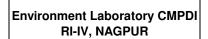
AUGUST 2020

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TEST REPORT NO.		RIN/TR/AUGUST-20/70			DATE OF ISSUE	30.09.2020	
NAME OF CUSTOMER GM(ENV.), W			CL(HQ), NAGPUR			•	
CUSTOMER LETTER REFERENCE NO. WCL/HQ/ENV			V/14-I/588-615 DA	ED: 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	KANHAN SAMPLING PLAN : LQR 47				
NAME OF PROJECT		AREA WORKS	SHOP				
SAMPLE DESCRIPTION Air sample		!					
SAMPLING METHOD: LSOP 4	•		.				

AREA WORKSHOP: KAWA1								
DATE(dd:mm:yy)) OF SAMPLING			PARAMETERS (24 hourly values in μg/m³)					
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS	
FROM	TO	5	5	2	6	10	(Sky/Wind)	
13.08.2020	13.08.2020 14.08.2020		49	30	15	BDL	Cloudy,Calm	
26.08.2020	27.08.2020	70	41	20	13	BDL	Rainy,Calm	
STANDARDS FOR COA	STANDARDS FOR COAL MINE, GSR 742(E),							
dt. 25 TH September 2000		600	300	-	120	120		

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	W/S PRIMISES:						
	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)					
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME					
	DETECTION LIMIT	20					
Aug-20	12.08.2020	43.7					
Aug-20	27.08.2020	44.4					
NOISE POLLUTION							
	75						

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TEST REPORT NO.	EST REPORT NO.		RIN/TR/SEPTEMBER-20/70		DATE OF ISSUE	30.10.2020	
NAME OF CUSTOMER	NAME OF CUSTOMER GM(ENV.), W			CL(HQ), NAGPUR			•
CUSTOMER LETTER REFERENCE NO. WCL/HQ/EN			WCL/HQ/EN\	//14-I/588-615 DAT	ED: 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						lity Assurance	
NAME OF AREA			KANHAN			SAMPLING PLAN: LQR 47	
NAME OF PROJECT			AREA WORKS	HOP			-
SAMPLE DESCRIPTION Air sample							
SAMPLING METHOD:	LSOP 4	•		•			

AREA WORKSHOP: KAWA1									
DATE(dd:mm:yy)) OF SAMPLING			PARAMETERS (2	4 hourly valu	ies in μg/m³)		ENVIRONMENT		
		SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂				CONDITIONS		
FROM	FROM TO		5	2	6	10	(Sky/Wind)		
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 TH September 2000		600	300	-	120	120			

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	W/S PRIMISES:	KAWN1	
		NOISE LEVEL IN dB(A)	
	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
MONTH	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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TEST REPORT NO.	RT NO.		RIN/TR/OCTO	DBER-20/70		DATE OF ISSUE		30.11.2020	
NAME OF CUSTOMER			GM(ENV.), W	GM(ENV.), WCL(HQ), NAGPUR					
CUSTOMER LETTER REFERENCE NO.			WCL/HQ/EN\	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20					
TEST REQUIRED		32 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance volume-II (part-II)-2.12:2016, NO $_2$: IS 5182 Part-06:2006(2017), SO $_2$: IS 5182 Part-2:2001(RA 2017)							
NAME OF AREA	!		KANHAN			SAMPLING PLAN : LC	R 47		
NAME OF PROJECT		AREA WORKS	AREA WORKSHOP				•		
SAMPLE DESCRIPTION Air sample		•	,						
SAMPLING METHOD : LSOP 4			=						

AREA WORKSHOP: KAWA1								
DATE(dd:mm:yy)) OF SAMPLING			ENVIRONMENT					
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS	
FROM	TO	5	5	2	6	10	(Sky/Wind)	
04.10.20	04.10.20 05.10.20		52	30	13	BDL	CLEAR SKY,LIGHT BREEZE	
18.10.20	18.10.20 19.10.20		165	57	12	BDL	CALM/CLEAR SKY	
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120		

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NOISE LEVEL MONITORING DATA

	W/S PRIMISES:	KAWN1			
		NOISE LEVEL IN dB(A)			
	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME		
MONTH	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		

CMPDI RI-IV, NAGPUR 3 of 3

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TEST REPORT NO.	ST REPORT NO.		RIN/TR/NOV-20/70		DATE OF ISSUE		31.12.2020		
NAME OF CUSTOMER			GM(ENV.), W	GM(ENV.), WCL(HQ), NAGPUR					
CUSTOMER LETTER REFERENCE NO.			WCL/HQ/ENV	V/14-I/588-615 D	ATED: 15.06.2	0			
TEST REQUIRED			1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance (part-II)-2.12:2016, NO $_2$: IS 5182 Part-06:2006(2017), SO $_2$:IS 5182 Part-2:2001(RA 2017)						
NAME OF AREA	•		KANHAN	KANHAN		SAMPLING PLAN : LO	R 47		
NAME OF PROJECT		AREA WORKS	AREA WORKSHOP				=		
SAMPLE DESCRIPTION Air sample		!		<u> </u>					
SAMPLING METHOD : LSOP 4									

	AREA WORKSHOP: KAWA1							
DATE(dd:mm:yy)) OF SAMPLING				ENVIRONMENT				
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS	
FROM	TO	5	5	2	6	10	(Sky/Wind)	
04.11.20	05.11.20	207	171	49	13	BDL	Cloudy/ Calm	
19.11.20	19.11.20 20.11.20		159	38	10	BDL	Cloudy/ Calm	
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120		

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NOISE LEVEL MONITORING DATA

	W/S PRIMISES:	KAWN1		
		NOISE LEVEL IN dB(A)		
	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME	
MONTH	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	

CMPDI RI-IV, NAGPUR 3 of 3

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ENVIRONMENTAL MONITORING REPORT

AREA WORKSHOP

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Test Report



TEST REPORT NO.			RIN/TR/DEC-20/70			DATE OF ISSUE		31.01.2021
NAME OF CUSTOMER	AME OF CUSTOMER		GM(ENV.), WCL(HQ), NAGPUR					
CUSTOMER LETTER REFERENCE NO.		WCL/HQ/EN\	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20					
TEST REQUIRED		PM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guida ocument volume-II (part-II)-2.12:2016, NO $_2$: IS 5182 Part-06:2006(2017), SO $_2$: IS 5182 Part-2:2001(RA 2017)						, 0
NAME OF AREA			KANHAN	KANHAN		SAMPLING PLAN : LQ	R 47	
NAME OF PROJECT		AREA WORKS	AREA WORKSHOP		•		-	
SAMPLE DESCRIPTION Air sample				_				
SAMPLING METHOD : LSOP 4			_					

AREA WORKSHOP: KAWA1								
DATE(dd:mm:yy)) OF SAMPLING				ENVIRONMENT				
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS	
FROM	TO	5	5	2	6	10	(Sky/Wind)	
5.12.20	5.12.20 6.12.20		101	36	13	BDL	Clear Sky / Clam	
19.12.20	19.12.20 20.12.20		89	28	12	BDL	Clear Sky / Clam	
STANDARDS FOR COAL MINE, GSR 742(E),		600	200		420	430		
dt. 25 TH September 2000		600	300	•	120	120		

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CMPDI RI-IV, NAGPUR 2 of 3

NOISE LEVEL MONITORING DATA

	W/S PRIMISES:	KAWN1		
		NOISE LEVEL IN dB(A)		
	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME	
MONTH	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	

CMPDI RI-IV, NAGPUR 3 of 3

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ENVIRONMENTAL MONITORING REPORT

AREA WORKSHOP

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JANUARY 2021

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Test Report



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/EN\	V/14-I/588-615 [DATED: 15.06.2	0		
TEST REQUIRED			1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guid (part-II)-2.12:2016, NO $_2$: IS 5182 Part-06:2006(2017), SO $_2$:IS 5182 Part-2:2001(RA 2017)					
NAME OF AREA	•		KANHAN	KANHAN		SAMPLING PLAN : LC	QR 47	
NAME OF PROJECT		AREA WORKS	AREA WORKSHOP		,		•	
SAMPLE DESCRIPTION Air sample		!		<u></u>				
SAMPLING METHOD : LSOP 4			-					

AREA WORKSHOP: KAWA1								
DATE(dd:mm:yy)) OF SAMPLING			ENVIRONMENT					
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS	
FROM	TO	5	5	2	6	10	(Sky/Wind)	
04.10.2021	04.10.2021 05.01.2021		166	36	12	BDL	Cloudy/calm	
17.01.2021	17.01.2021 18.01.2021		172	31	11	BDL	Cloudy/calm	
STANDARDS FOR COAL MINE, GSR 742(E),					420	400		
dt. 25 TH September 2000		600	300	-	120	120		

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NOISE LEVEL MONITORING DATA

	W/S PRIMISES:	KAWN1			
		NOISE LEVEL IN dB(A)			
	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME		
MONTH	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		

CMPDI RI-IV, NAGPUR 3 of 3

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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

REGIONAL INSTITUTE-IV, KASTURBA NAGAR, JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY

Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.		RIN/TR/FEB-21/70		[DATE OF ISSUE	3	31.03.2021	
NAME OF CUSTOMER GM(GM(ENV.), W	GM(ENV.), WCL(HQ), NAGPUR				
CUSTOMER LETTER REFERENCE NO.			WCL/HQ/ENV	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20				
TEST REQUIRED			999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance part-II)-2.12:2016, NO ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)					
NAME OF AREA	•		KANHAN			SAMPLING PLAN : LO	QR 47	
NAME OF PROJECT		AREA WORKSHOP						
NAME OF PROJECT			AREA WORKS	SHOP				
NAME OF PROJECT SAMPLE DESCRIPTION	1	Air sample		SHOP				

AREA WORKSHOP: KAWA1							
DATE/elelumene unu	/ / OE CAMPLING	PARAMETERS (24 hourly values in μg/m³)				ENVIRONMENT	
DATE(dd:mm:yy)) OF SAIVIPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS
FROM	TO	5	5	2	6	10	(Sky/Wind)
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),		600			400	400	
dt. 25 TH Sept	dt. 25 TH September 2000		300	-	120	120	

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Analysed by

Authorised Signatory

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CMPDI RI-IV, NAGPUR 2 of 3

NOISE LEVEL MONITORING DATA

	W/S PRIMISES:	KAWN1	
		NOISE LEVEL IN dB(A)	
	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
MONTH	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

CMPDI RI-IV, NAGPUR 3 of 3

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ENVIRONMENTAL MONITORING REPORT

AREA WORKSHOP

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MARCH 2021

Environment Laboratory

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CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR, JARIPATKA, NAGPUR, PIN – 440 014

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Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.		RIN/TR/MAR-21/70		DATE OF ISSUE	28.04.2021		
NAME OF CUSTOMER	IE OF CUSTOMER GM(ENV.), WCL(HQ), NAGPUR			R			
CUSTOMER LETTER REFERENCE NO.			WCL/HQ/EN\	//14-I/588-615 I	DATED: 15.06.20	0	
TEST REQUIRED			rt-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance le-II (part-II)-2.12:2016, NO ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)				
NAME OF AREA			KANHAN			SAMPLING PLAN : LO	QR 47
NAME OF PROJECT		AREA WORKSHOP					
SAMPLE DESCRIPTION Air sample		•					
SAMPLING METHOD : LSOP 4			-				

AREA WORKSHOP: KAWA1							
DATE/dd.momo.u.u.)) OF CAMPLING	PARAMETERS (24 hourly values in μg/m ³)				ENVIRONMENT	
DATE(dd:mm:yy)) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS
FROM	TO	5	5	2	6	10	(Sky/Wind)
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 TH September 2000		600	300	-	120	120	

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CMPDI RI-IV, NAGPUR 2 of 3

NOISE LEVEL MONITORING DATA

	W/S PRIMISES:	KAWN1	
		NOISE LEVEL IN (dB(A)
	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
MONTH	DETECTION LIMIT	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

CMPDI RI-IV, NAGPUR 3 of 3

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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1.	Executive Summary	01
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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 13th 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_x , NO_x 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 Kanhan 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

Sno.	Water Consumption Category	Quantity/usage (in KL/day)
a)	Industrial	
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)	Domestic	
i.	Domestic use	580
ii.	Green Belt/Plantation	45
	TOTAL	1360 KL/day

Table-B Water Consumption against Production (including recycled)

Name of Product	Water Consumption per recycled)	unit of product (including
	During the previous FY 2019-20	During the current FY 2020- 21
COAL	2.79 KL/tone of Coal produced.	2.74 KL/tone of Coal produced.

Table-C Raw Material Consumption

Name material	of raw	Name of product	Consumption of raw product	material per unit of
				During the current
			FY 2019-20	FY 2020-21
Explosive	(Kg/ton)	Coal	0.37	0.343

<u>PART-C</u> 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:

Sno.	Particulars	Amount
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.),W0	CL(HQ), NAGPU	R	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFEI	WCL/HQ/ENV/	′14-1/588-6 2	L5 DATED: 15.06.20		
	SPM: IS 5182	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5:			
TEST REQUIRED	USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS				
	5182 Part-06:2006(2017), SO ₂ :IS 5182 F			rt-2:2001(RA 2017)	
NAME OF AREA	KANHAN ARE	A		SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	TANDSI UG			SAMPLING PLAN : LQR 47	

WORKSHOP: KTUA1							
DATE OF	Р	PARAMETERS (24 hourly values in μg/m³)					
SAMPLING	SPM PM ₁₀ PM _{2.5} NO _X SO ₂						
DETECTION LIMIT	5 5 2 6 10						
14.05.2020	88 61 22 17 11						
23.05.2020	92 55 27 15 12						
TLV	600 300 60 120 120						

LAMP ROOM: KTUA2								
DATE OF	Р	PARAMETERS (24 hourly values in μg/m³)						
SAMPLING	SPM PM_{10} $PM_{2.5}$ NO_{χ} SO_2							
DETECTION LIMIT	5 5 2 6 10							
14.05.2020	70 48 25 10 <10							
23.05.2020	60 40 27 12 <10							
TLV	600	600 300 60 120 120						

COLONY-NEAR HEALTH CENTRE: KTUA3								
DATE OF	Р	PARAMETERS (24 hourly values in μg/m³)						
SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO _X SO ₂						
DETECTION LIMIT	5	5 5 2 6 10						
14.05.2020	100	100 59 24 15 <10						
28.05.2020	81	81 49 26 17 <10						
TLV	200	200 100 60 80 80						

JET HOSTEL: KTUA4								
DATE OF	Р	PARAMETERS (24 hourly values in μg/m³)						
SAMPLING	SPM PM ₁₀ PM _{2.5} NO _X SO ₂							
DETECTION LIMIT	5 5 2 6 10							
14.05.2020	92 50 25 15 <10							
23.05.2020	102 66 23 16 12							
TLV	200 100 60 80 80							

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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.),W0	CL(HQ), NAGPU	R	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO. WCL/HQ/ENV			14-1/588-61	15 DATED: 15.06.20	
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS		3025-Part 17:1984(RA 20	017), APHA (23rd	
TEST REQUIRED	Edition) 5220 C :2017 & IS 3025-Part 39)25-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		ANALYSIS RESULTS				
COLLECTION	рН	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		

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NOISE LEVEL DATA

NAME OF AREA: KANHAN AREA YEAR: 2020 NAME OF PROJECT: TANDSI UG MONTH: MAY

FAN HOUSE: KTUN1					
MONTH	DATE OF DATA COLLECTION	NOISE LE	VEL IN dB(A)		
	COLLECTION	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	NOISE LE	VEL IN dB(A)		
	COLLECTION	DAY TIME	NIGHT TIME		
MAY-2020	13.05.2020	45.2	42.5		
MAY-2020	Y-2020 28.05.2020		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

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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.),WO	CL(HQ), NAGPU	R	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFE	RENCE NO.	WCL/HQ/ENV/	14-1/588-61	15 DATED: 15.06.20	
	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5				RA 2017), PM2.5:
TEST REQUIRED	USEPA Qualit	y Assurance gui	dance docu	ment volume-II (part-II)-2	.12:2016, NOx: IS
	5182 Part-06:2006(2017), SO ₂ :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	Р	PARAMETERS (24 hourly values in μg/m³)					
SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO _X SO ₂					
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	P	PARAMETERS (24 hourly values in μg/m³)					
SAMPLING	SPM	SPM PM ₁₀ PM _{2,5} NO _X SO ₂					
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	Р	PARAMETERS (24 hourly values in μg/m³)					
SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO _X SO ₂					
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	200 100 60 80 80					

JET HOSTEL: KTUA4							
DATE OF	Р	PARAMETERS (24 hourly values in μg/m³)					
SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO _X SO ₂					
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	200 100 60 80 80					

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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.),W0	CL(HQ), NAGPU	R	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFEI	CUSTOMER LETTER REFERENCE NO. WCL/HQ/ENV/			15 DATED: 15.06.20	
TEST REQUIRED IS 3025 -Pai		11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd			
TEST REQUIRED	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	ANALYSIS RESULTS						
COLLECTION	рН	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 YEAR: 2020 NAME OF PROJECT: TANDSI UG MONTH: JUNE

FAN HOUSE: KTUN1						
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)				
	COLLECTION	DAY TIME				
JUNE 2020	12-06-20	69.7				
JUNE 2020	19-06-20	69.9				
	TLV	75				

COLONY: KTUN2						
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)				
	COLLECTION	DAY TIME				
JUNE 2020	19-06-20	45.1				
JUNE 2020	19-06-20	45.3				
	TLV	55				

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Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.	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 Assuran guidance document volume-II (part-II)-2.12:2016, NO ₂ : IS 5182 Part-06:2006(2017), SO ₂ : IS 5182 Part-2:2001(RA 2017)					• ,	
NAME OF AREA	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.mama.u.u.	PARAMETERS (24 hourly values in μg/m³)					ENVIRONMENT		
DATE(dd:mm:yy	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS		
FROM	TO	5	5	2	6	10	(Sky/Wind)	
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),					400	400		
dt. 25 TH September 2000		600	300	-	120	120		

	LAMP ROOM: KTUA2						
DATE (dd. co. co. co.) \ OF CANADUNG		PARAMETERS (24 hourly values in μg/m³)					ENVIRONMENT
DATE(dd:mm:yy)) OF SAMPLING		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS
FROM	TO	5	5	2	6	10	(Sky/Wind)
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),					100	400	
dt. 25 TH September 2000		600	300	-	120	120	

	COLONY NEAR HEALTH CENTER: KTUA3							
PARAMETERS (24 hourly values in μg/m ³)						ENVIRONMENT		
DATE(dd:mm:y	DATE(dd:mm:yy)) OF SAMPLING		PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS	
FROM	TO	5	5	2	6	10	(Sky/Wind)	
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	
NAAC	S, 2009	_	100	60	80	80		

	JET HOSTEL: KTUA4						
DATE/dd:mm;;;u	PARAMETERS (24 hourly values in μg/m³)					ENVIRONMENT	
DATE(dd:mm:yy))) OF SAIVIPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS
FROM	TO	5	5	2	6	10	(Sky/Wind)
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	5, 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	ANALYSIS RESULTS						
COLLECTION	pH TSS (in mg/l) COD(in mg/l) O & G(in mg						
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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JULY.2020 NOISE POLLUTION (R	70.6 75	
	25-Jul-20	
JULY.2020	12-Jul-20	69.6
	DETECTION LIMIT	20
MONTH	COLLECTION	DAY TIME
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)
	KTUN1	

	KTUN2	
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)
MONTH	COLLECTION	DAY TIME
	DETECTION LIMIT	20
JULY.2020	12-Jul-20	44.7
JULY.2020	25-Jul-20	44.4
NOISE POLLUTION (R	55	

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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

Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.	EST REPORT NO.		RIN/TR/AUGUST-20/78			DATE OF ISSUE	30.09.2020
NAME OF CUSTOMER GM(ENV.), W			CL(HQ), NAGPL	IR	•	•	
CUSTOMER LETTER REFERENCE NO. WCL/HQ/EN			WCL/HQ/EN\	//14-I/588-615	DATED: 15.0	6.20	
TEST REQUIRED	ST REQUIRED SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assura					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 μg/m³)								
DATE(dd.IIIII.yy)	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS					
FROM	TO	5	5 5 2 6 10				(Sky/Wind)				
08.08.2020	09.08.2020	88	52	30	17	11	Cloudy Calm				
22.8.2020	22.8.2020 23.08.2020			27	14	BDL	Rainy sky, Calm				
STANDARDS FOR COAL MINE, GSR 742(E),		500	200		420	120					
dt. 25 TH September 2000		600	300	•	120	120					

	LAMP ROOM: KTUA2											
DATE/dd.mam.uni	A A OF CAMPUNG		PARAMETERS (24 hourly values in μg/m³)									
DATE(dd:mm:yy)) OF SAIVIPLING	SPM PM ₁₀ PM _{2.5}			NO ₂	SO ₂	CONDITIONS					
FROM	TO	5	5	2	6	10	(Sky/Wind)					
08.08.2020	09.08.2020	81	55	24	14	BDL	Cloudy Calm					
22.8.2020	22.8.2020 23.08.2020		49	29	15	12	Rainy sky, Calm					
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120						

	COLONY NEAR HEALTH CENTER: KTUA3											
PARAMETERS (24 hourly values in μg/m³)												
DATE(dd:mm:yy)) OF SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂				CONDITIONS					
FROM	TO	5	5	2	6	10	(Sky/Wind)					
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					
NAAO	S. 2009	_	100	60	80	80						

	JET HOSTEL: KTUA4												
DATE/44)) OF CANADUMC		PARAMETERS	(24 hourly va	lues in μg/m³))	ENVIRONMENT						
DATE(dd:mm:yy)) OF SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂				CONDITIONS						
FROM	TO	5	5	2	6	10 (Sky/Win							
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						
NAAQ	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 Editio	n)
SAMPLING METHOD	LSOP 5	

MINE WATER DISCHARGE: KTUW1										
DATE OF SAMPLE	ANALYSIS RESULTS									
COLLECTION	pН	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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	KTUN1	
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)
MONTH	COLLECTION	DAY TIME
	DETECTION LIMIT	20
Aug-20	8.8.2020	69.9
Aug-20	23.8.2020	68.6
NOISE POLLUTION (R	75	

	KTUN2	
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)
MONTH	COLLECTION	DAY TIME
	DETECTION LIMIT	20
Aug-20	8.8.2020	44.4
Aug-20	27.8.2020	44.7
NOISE POLLUTION (R	55	

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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, JARIPATKA, NAGPUR, PIN – 440 014

Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.	TEST REPORT NO.		RIN/TR/SEPTEMBER-20/78			DATE OF ISSUE	30.10.2020
NAME OF CUSTOMER	NAME OF CUSTOMER GM(ENV.), WC			И(ENV.), WCL(HQ), NAGPUR			
CUSTOMER LETTER R	CUSTOMER LETTER REFERENCE NO. WCL/HQ/ENV,			//14-I/588-615	DATED: 15.0	6.20	
TEST REQUIRED	ST REQUIRED SPM: IS 5182 Part-4:1999(RA 2019),			PM-10: IS-5182	2 Part 23:200	06(RA 2017), PM2.5: USEP	A Quality Assurance
NAME OF AREA			KANHAN			SAMPLING PLAN : LQR 47	7
NAME OF PROJECT			TANDSI UG		•		<u> </u>
SAMPLE DESCRIPTION Air sample					•		
SAMPLING METHOD : LSOP 4			=				

	WORKSHOP: KTUA1											
DATE(dd:mm:yy)) OF SAMPLING			PARAMETERS (24 hourly values in μg/m³)									
DATE(dd.IIIII.yy)	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS						
FROM	TO	5	5	2	6	10	(Sky/Wind)					
05.09.20	06.09.20	89	55	24	13	BDL	CLEAR SKY, LIGHT BREEZE					
24.09.20	24.09.20 25.09.20		47	21	16	13	RAINY CALM					
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	•	120	120						

			LAMP ROOM:	KTUA2				
DATE/dd.mama.u.u.	A A OF CAMPLING		PARAMETERS	(24 hourly va	lues in μg/m ³))	ENVIRONMENT	
DATE(dd:mm:yy))) OF SAIVIPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂			CONDITIONS		
FROM	TO	5	5	2	6	10	(Sky/Wind)	
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 TH September 2000		600	300	-	120	120		

COLONY NEAR HEALTH CENTER: KTUA3									
DATE/dd.momo.u.u.)) OF CAMPLING		PARAMETERS	(24 hourly va	lues in μg/m ³		ENVIRONMENT		
DATE(dd:mm:yy)) OF SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂				CONDITIONS		
FROM	TO	5	5	2	6	10	(Sky/Wind)		
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	\ \ OF CANADURIC		PARAMETERS	(24 hourly va	lues in μg/m ³))	ENVIRONMENT		
DATE(dd:mm:yy)) OF SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂				CONDITIONS		
FROM	TO	5	5	2	6	10	(Sky/Wind)		
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 8					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 Editio	n)
SAMPLING METHOD	LSOP 5	

MINE WATE	MINE WATER DISCHARGE: KTUW1								
DATE OF SAMPLE	ANALYSIS RESULTS								
COLLECTION	pН	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 POLLUTION (R	EGULATION AND CONTROL) RULES	75	70	
Sep-20	22.09.2020	67.3	66.2	
Sep-20	07.09.2020	69.4	67.1	
	DETECTION LIMIT	20	20	
MONTH	COLLECTION	DAY TIME	NIGHT TIME	
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)	
	FAN HOUSE:	KTUN1		

	COLONY(TANDSI):	KTUN2			
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)			
MONTH	COLLECTION	DAY TIME	NIGHT TIME		
	DETECTION LIMIT	20	20		
Sep-20	07.09.2020	50.2	48.2		
Sep-20	22.09.2020	51.1	49.3		
,	EGULATION AND CONTROL) RULES	55	45		

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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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REGIONAL INSTITUTE-IV, KASTURBA NAGAR, JARIPATKA, NAGPUR, PIN – 440 014

Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.			RIN/TR/OCTOBER-20/78		DATE OF ISSUE		30.11.2020
NAME OF CUSTOMER GM(ENV.), WCL(HQ), NAGPUR			•				
CUSTOMER LETTER I	REFERENCE N	NO.	WCL/HQ/EN\	//14-I/588-615 DA	TED: 15.06.20		
TEST REQUIRED	guidance	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality As guidance document volume-II (part-II)-2.12:2016, NO $_2$: IS 5182 Part-06:2006(2017), SO $_2$: IS 5182 Part-2:2001(RA 2017)			•		
NAME OF AREA			KANHAN		SAMPLING PL	AN : LQR 47	
NAME OF PROJECT			TANDSI UG				•
SAMPLE DESCRIPTION Air sample							
SAMPLING METHOD : LSOP 4				-			

	WORKSHOP: KTUA1								
DATE(dd:mm:yy)) OF SAMPLING)	ENVIRONMENT					
DATE(dd:mm:yy)) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS		
FROM	TO	5	5	2	6	10	(Sky/Wind)		
08.10.2020	09.10.2020	73	53	29	15	12	CLEAR SKY, LIGHT BREEZE		
22.10.2020	22.10.2020 23.10.2020		159	62	15	BDL	CLEAR SKY, LIGHT BREEZE		
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120			

	LAMP ROOM: KTUA2								
DATE(dd:mm:yy)) OF SAMPLING			PARAMETERS (24 hourly values in μg/m³)						
DATE(dd:mm:yy)) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS		
FROM	TO	5	5	2	6	10	(Sky/Wind)		
08.10.2020	09.10.2020	88	59	31	16	11	CLEAR SKY, LIGHT BREEZE		
22.10.2020	22.10.2020 23.10.2020		88	31	11	DD1	CLEAR SKY, LIGHT BREEZE		
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120			

	COLONY NEAR HEALTH CENTER: KTUA3									
DATE/dd.ma.aa	A A OF CANADIANC		PARAMETERS	(24 hourly va	llues in μg/m³)	ENVIRONMENT			
DATE(dd:mm:yy))) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS			
FROM	TO	5	5	2	6	10	10 (Sky/Wind)			
08.10.2020	09.10.2020	68	42	21	11	BDL	CLEAR SKY, LIGHT BREEZE			
22.10.2020	22.10.2020 23.10.2020 400 07 00 40 BDI						CLEAR SKY, LIGHT BREEZE			
NAAQ	-	100	60	80	80					

			JET HOSTEL:	KTUA4				
DATE/dd		PARAMETERS	(24 hourly va	llues in μg/m ³)	ENVIRONMENT		
DATE(dd:mm:yy))) OF SAMPLING	SPM	PM ₁₀	PM _{2.5} NO ₂ SO ₂			CONDITIONS	
FROM	TO	5	5	2	6	10	(Sky/Wind)	
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		

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SAMPLE DESCRIPTION	Water sam	ple
Test Required	l '	5 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 17,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		ANALYSIS RESULTS					
COLLECTION	рН	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.	5.5 - 9.0	100	250	10			
25/09/2000							

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	FAN HOUSE:	KTUN1		
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)	
MONTH	COLLECTION	DAY TIME	NIGHT TIME	
	DETECTION LIMIT	20	20	
Oct-20	09.10.20	68.4	62.1	
Oct-20	21.10.20	67.9	61.8	
	ON (REGULATION AND ROL) RULES	75	70	

	COLONY(TANDSI):	KTUN2		
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)	
MONTH	COLLECTION	DAY TIME	NIGHT TIME	
	DETECTION LIMIT	20	20	
Oct-20	09.10.20	51.2	48.2	
Oct-20	21.10.20	50.4	47.8	
	ON (REGULATION AND TROL) 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

Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.		RIN/TR/NOV-	31.12.2020					
NAME OF CUSTOMER			GM(ENV.), W	CL(HQ), NAGPU	R	·		
CUSTOMER LETTER	REFERENCE N	0.	WCL/HQ/ENV	//14-I/588-615	DATED: 15.06.20			
TEST REQUIRED			1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance (part-II)-2.12:2016, NO ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)					
NAME OF AREA			KANHAN		SAMPLING PLAN : LQ	R 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/m³)					5111/1201145117	
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	5	5	2	6	10	CONDITIONS (Sky) Willa)	
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 TH September 2000		600	300	-	120	120		

LAMP ROOM: KTUA2							
DATE(dd:mm:yy)) OF SAMPLING		PARAMETERS (24 hourly values in μg/m³)					
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	5	5	2	6	10	CONDITIONS (Sky) Willa)
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 TH September 2000		600	300	-	120	120	

	COLONY NEAR HEALTH CENTER: KTUA3							
DATE/ALL	\\		PARAMETERS	5411 (10 0414 454)				
DATE(dd:mm:yy)) OF SAMPLING		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	5	5	2	6	10	CONDITIONS (Sky) Willa)	
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	
NAAC	S, 2009	-	100	60	80	80		

	JET HOSTEL: KTUA4							
DATE(dd	2.75/11		PARAMETERS	ENIVED ON MENT				
DATE(da:mm:yy	DATE(dd:mm:yy)) OF SAMPLING		PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	5	5	2	6	10	CONDITIONS (Sky) Willa)	
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	
NAAQ	S, 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		ANALYSIS RESULTS					
COLLECTION	рН	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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	FAN HOUSE:	KTUN1	
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)
MONTH	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
NOV'20	06.11.20	61.8	51.7
NOV'20	23.11.20	62.5	52.2
,	EGULATION AND CONTROL) RULES	75	70

	COLONY(TANDSI):	KTUN2	
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)
MONTH	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
NOV'20	06.11.20	39.2	36.2
NOV'20	23.11.20	50.6	41.2
'	EGULATION AND CONTROL) RULES	55	45

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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

Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.		RIN/TR/DEC-	RIN/TR/DEC-20/78 DATE OF ISSUE 31.01.2021				
NAME OF CUSTOME	R		GM(ENV.), WCL(HQ), NAGPUR				
CUSTOMER LETTER	REFERENCE N	0.	WCL/HQ/ENV	//14-I/588-615 I	DATED: 15.06.20		
TEST REQUIRED			:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance II (part-II)-2.12:2016, NO ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)				
NAME OF AREA			KANHAN		SAMPLING PLAN : LQ	R 47	
NAME OF PROJECT		TANDSI UG					
SAMPLE DESCRIPTION Air sample		!					
SAMPLING METHOD : LSOP 4				_			

	WORKSHOP: KTUA1											
DATE/44		PARAMETERS	24 hourly va	llues in μg/m³)	ENIVED ON MENT						
DATE(dd:mm:yy)) OF SAMPLING		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)					
FROM	TO	5	5	2	6	10	CONDITIONS (Sky) Willa)					
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 TH September 2000		600	300	-	120	120						

	LAMP ROOM: KTUA2											
DATE/44	// OF CAMPLING		PARAMETERS	(24 hourly va	lues in μg/m³)	ENIVERONIA AENIT					
DATE(dd:mm:yy)) OF SAMPLING		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)					
FROM	TO	5	5	2	6	10	CONDITIONS (Sky/Willu)					
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 TH September 2000		600	300	-	120	120						

COLONY NEAR HEALTH CENTER: KTUA3											
DATE/dd	PARAMETERS (24 hourly values in μg/m³)										
DATE(dd:mm:y)	y)) OF SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂				ENVIRONMENT CONDITIONS (Sky/Wind)				
FROM	TO	5	5	2	6	10	CONDITIONS (Sky) Willa)				
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				
NAAC	100	60	80	80							

	JET HOSTEL: KTUA4											
DATE(d d)) OF CAMPLING		PARAMETERS	(24 hourly va	lues in μg/m³)	ENIVED ON MENT					
DATE(dd:mm:yy	DATE(dd:mm:yy)) OF SAMPLING SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂			ENVIRONMENT CONDITIONS (Sky/Wind)								
FROM	TO	5	5	2	6	10	CONDITIONS (Sky) Willa)					
9.12.20	10.12.20	149	102	29	14	BDL	Clear/Calm					
23.12.20 24.12.20 161 97 33 12 BDL				BDL	Clear/Calm							
NAAQ	S, 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		ANALYSI	S RESULTS						
COLLECTION	рН	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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	FAN HOUSE:	KTUN1	
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)
MONTH	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'20	09.12.20	62.7	55.3
DEC'20	23.12.20	60.3	50.8
,	EGULATION AND CONTROL) RULES	75	70

	COLONY(TANDSI):	KTUN2	
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)
MONTH	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'20	09.12.20	46.6	40.2
DEC'20	23.12.20	49.7	40.9
•	EGULATION AND CONTROL) RULES	55	45

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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

Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.		RIN/TR/JAN-	RIN/TR/JAN-21/78 DATE OF ISSUE JAN.02.2021					
NAME OF CUSTOMER GM(ENV.), WCL(HQ), NAGPUR				JR				
CUSTOMER LETTER R	EFERENCE N	Ю.	WCL/HQ/EN	V/14-I/588-615	DATED: 15.06.20			
TEST REQUIRED			I:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance II (part-II)-2.12:2016, NO ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)					
NAME OF AREA	-1		KANHAN		SAMPLING PLAN : LQ	R 47		
NAME OF PROJECT T		TANDSI UG						
SAMPLE DESCRIPTION Air sample			<u>;</u>		•			
SAMPLING METHOD : LSOP 4				_				

	WORKSHOP: KTUA1											
DATE/dd.mom.u.u.		PARAMETERS	(24 hourly va	llues in μg/m ³)	CNI/IDONIMENT						
DATE(dd:mm:yy)) OF SAMPLING		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)					
FROM	TO	5	5	2	6	10	CONDITIONS (Sky) Willay					
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 TH September 2000		600	300	-	120	120						

			LAMP ROOM:	KTUA2			
DATE/ dal	// OF CAMPLING		PARAMETERS	(24 hourly va	llues in μg/m ³)	ENIVED ON MENT
DATE(dd:mm:yy)) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	5	5 5 2 6 10			CONDITIONS (Sky) Willa)	
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),		500	200		420	420	
dt. 25 TH Sept	ember 2000	600	300	ı	120	120	

=									
COLONY NEAR HEALTH CENTER: KTUA3									
DATE/ dal	A A OF CANADIANC		PARAMETERS	(24 hourly va	llues in μg/m³)	ENIVED ON MENT		
DATE(da:mm:y)	y)) OF SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂			ENVIRONMENT CONDITIONS (Sky/Wind)			
FROM	TO	5	5	2	6	10	CONDITIONS (Sky) Willa)		
08.01.2021	09.01.2021	99	65	28	10	BDL	Cloudy/Calm		
21.02.2021	22.01.2021	112	112 83 33 11 BDL				Cloudy/Calm		
NAAC	NAAQS, 2009 - 100 60 80 80								

	JET HOSTEL: KTUA4								
DATE/ dd	PARAMETERS (24 hourly values in μg/m³)				510,475,011,451,7				
DATE(dd:mm:yy)) OF SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂			ENVIRONMENT CONDITIONS (Sky/Wind)			
FROM	TO	5	5	2	6	10	CONDITIONS (Sky) Willa)		
08.01.2021	09.01.2021	125	95	36	12	BDL	Cloudy/Calm		
21.02.2021	21.02.2021 22.01.2021 112 78 31 11 BDL				Cloudy/Calm				
NAAQ	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		ANALYSI	S RESULTS					
COLLECTION	рН	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				



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	FAN HOUSE:	KTUN1		
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)	
MONTH	COLLECTION	DAY TIME	NIGHT TIME	
	DETECTION LIMIT	20	20	
JAN'21	08.01.2021	68.6	67.2	
JAN'21	19.01.2021	69.6	68.2	
,	EGULATION AND CONTROL) RULES	75	70	

	COLONY(TANDSI):	KTUN2		
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)		
MONTH	COLLECTION	DAY TIME	NIGHT TIME	
	DETECTION LIMIT	20	20	
JAN'21	08.01.2021	45.2	44.4	
JAN'21	19.01.2021	45.9	43.7	
,	EGULATION AND CONTROL) RULES	55	45	

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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

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR, JARIPATKA, NAGPUR, PIN – 440 014

Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.	RIN/TR/FEB-21/78				DATE OF ISSUE	31.03.2021		
NAME OF CUSTOMER			GM(ENV.), WCL(HQ), NAGPUR					
CUSTOMER LETTER RE	FERENCE N	0.	WCL/HQ/ENV	//14-I/588-615 DATED: 1	5.06.20			
TEST REQUIRED			:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidanc I (part-II)-2.12:2016, NO ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)					
NAME OF AREA	NAME OF AREA KA				QR 47			
NAME OF PROJECT TA			TANDSI UG					
SAMPLE DESCRIPTION Air sample								
SAMPLING METHOD:	LSOP 4			_				

	WORKSHOP: KTUA1							
DATE/dd.mama		PARAMETERS	EAN (ID CAIN AEAIT					
DATE(dd:mm:yy)) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	5	5	2	6	10	CONDITIONS (Sky) Willa)	
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 TH September 2000		600	300	-	120	120		

	LAMP ROOM: KTUA2							
DATE/-I-I	// OF CAMPLING		PARAMETERS	(24 hourly va	llues in μg/m³))	END/IDONAATAIT	
DATE(dd:mm:yy)) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	5	5 5 2 6 10			CONDITIONS (Sky) Willa)		
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),		600	300		120	120		
dt. 25 TH Sept	tember 2000	900	300	-	120	120		

	COLONY NEAR HEALTH CENTER: KTUA3								
DATE/ dalamana	PARAMETERS (24 hourly values in µg/m³)								
DATE(da:mm:yy)) OF SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂			ENVIRONMENT CONDITIONS (Sky/Wind)			
FROM	TO	5	5 5 2 6 10				CONDITIONS (Sky) Willa)		
06.02.2021	07.02.2021	125	83	28	9	BDL	Cloudy/Calm		
21.02.2021	21.02.2021 22.02.2021 132 94 31 10 BDL					Cloudy/Calm			
NAAQ	NAAQS, 2009 - 100 60 80 80								

			JET HOSTEL:	KTUA4			
DATE/dd.ma.ma.	A A OF CAMPUNIC		PARAMETERS	(24 hourly va	llues in μg/m³))	ENIVED ON MENT
DATE(dd:mm:y))) OF SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂			ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	5	5	2	6	10	CONDITIONS (Sky) Willa)
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
NAAQ	NAAQS, 2009 - 100 60 80 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	ANALYSIS RESULTS						
COLLECTION	pН	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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	FAN HOUSE:	KTUN1	
	DATE OF SAMPLE	NOISE LEVEL IN (dB(A)
MONTH	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
FEB'21	04.02.2021	68.7	67.2
FEB'21	19.02.2021	69.7	67.4
,	EGULATION AND CONTROL) RULES	75	70

	COLONY(TANDSI):	KTUN2	
	DATE OF SAMPLE	NOISE LEVEL IN (dB(A)
MONTH	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
FEB'21	04.02.2021	45.4	43.9
FEB'21	19.02.2021	45.6	44.2
`	EGULATION AND CONTROL) RULES	55	45

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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

Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.	EST REPORT NO.		RIN/TR/MAR-21/78		DATE OF ISSUE	28.04.2021			
IAME OF CUSTOMER			GM(ENV.), WCL(HQ), NAGPUR						
CUSTOMER LETTER	REFERENCE N	10.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20						
TEST REQUIRED			,	•	Part 23:2006(RA 2017), PM2.5: US 2 Part-06:2006(2017), SO ₂ :IS 5182	. ,			
NAME OF AREA		KANHAN		SAMPLING PLAN : LQI	R 47				
NAME OF PROJECT		TANDSI UG		•					
SAMPLE DESCRIPTION Air sample									
SAMPLING METHOD : LSOP 4									

	WORKSHOP: KTUA1							
DATE/ddimminu	/ / OE CAMPLING	PARAMETERS (24 hourly values in μg/m³)					ENVIRONMENT	
DATE(dd:mm:yy)) OF SAMPLING		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS (Sky/Wind)	
FROM	TO	5	5	2	6	10	CONDITIONS (Sky) Willu)	
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),					400	400		
dt. 25 TH Sept	tember 2000	600	300	-	120	120		

LAMP ROOM: KTUA2							
DATE(dd:mm:yy)) OF SAMPLING			PARAMETERS (24 hourly values in μg/m³)				
) OF SAIVIPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)	
TO	5	5	2	6	10	CONDITIONS (Sky) Willu)	
08.03.2021	264	179	38	13	BDL	Cloudy/Calm	
23.03.2021 24.03.2021		166	33	15	BDL	Cloudy/Calm	
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		300	-	120	120		
	TO 08.03.2021 24.03.2021 . MINE, GSR 742(E),	TO 5 08.03.2021 264 24.03.2021 259 MINE, GSR 742(E), 500	PARAMETERS SPM PM ₁₀ TO 5 5 08.03.2021 264 179 24.03.2021 259 166 MINE, GSR 742(E), 600 300	PARAMETERS (24 hourly value) SPM PM ₁₀ PM _{2.5} TO 5 5 2 08.03.2021 264 179 38 24.03.2021 259 166 33 MINE, GSR 742(E), 600 300 300	PARAMETERS (24 hourly values in μg/m³) SPM PM₁0 PM₂.5 NO₂ TO 5 5 2 6 08.03.2021 264 179 38 13 24.03.2021 259 166 33 15 MINE, GSR 742(E), 600 300 300 300 300	PARAMETERS (24 hourly values in μg/m³) SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂ TO 5 5 2 6 10 08.03.2021 264 179 38 13 BDL 24.03.2021 259 166 33 15 BDL MINE, GSR 742(E), 600 300 300 300 120 120 120	

	COLONY NEAR HEALTH CENTER: KTUA3								
DATE/dd:mmua	4) OE CAMPLING	PARAMETERS (24 hourly values in μg/m³)					END/IDONA AENT		
DATE(dd:mm:y)	DATE(dd:mm:yy)) OF SAMPLING SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂		SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)					
FROM	TO	5	5	2	6	10	CONDITIONS (Sky/wind)		
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		
NAAC	NAAQS, 2009		100	60	80	80			

	JET HOSTEL: KTUA4							
DATE/dd:mm.u	v)) OF SAMPLING		PARAMETERS	ENVIRONMENT				
DATE(dd.iiiii.y))) OF SAIVIPLING	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂		CONDITIONS (Sky/Wind)				
FROM	TO	5	5	2	6	10	CONDITIONS (Sky/Willu)	
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	
NAAQ	NAAQS, 2009		100	60	80	80		

atmohume

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: KTUW1							
DATE OF SAMPLE		ANALYSI	S RESULTS				
COLLECTION	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:		
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
MONTH	COLLECTION	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
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY(TANDSI):		KTUN2	
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)
MONTH	COLLECTION	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
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

CMPDI RI-IV, NAGPUR 4 of 4

ENVIRONMENT AUDIT STATEMENT FORM-V

BARKUHI OC MINE

FY 2020-21

Prepared by:



September - 2021

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 loses 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

Sr. No.	Partic	Particulars		
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	25 th September, 2020		
	Report submitted			

PART - B

WATER & RAW MATERIALS CONSUMPTION

Table – A Water consumption on Usage Pattern

Sr.no.	Water Consumption Category	Quantity/usage (in KL/day)
a)	Industrial	
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)	Domestic	
i.	Domestic use	05
ii.	Green Belt/Plantation	Nil
	TOTAL	55

<u>Table – B Water Consumption Against Production (Including Recycled)</u>

Name of Product	Water Consumption	per unit of product
	(inclu	uding recycled)
	During the previous FY	During the current FY
	2019-20	2020-21
COAL	Nil	97.09 liters/ton

<u>Table – C Raw Material Consumption</u>

Name material	of raw	Name of product	Consumption of raw n	naterial per unit of
			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	Values of all parameters are
		attached for the year 2020-21	within permissible limits.
(B)	Air	Air Quality Monitoring reports	Values of all parameters are
		attached for the year 2020-21	within permissible limits.
(C)	Noise	Noise Quality Monitoring reports	Values of all parameters are
		attached for the year 2020-21	within permissible limits.

<u>PART - D</u> <u>HAZARDOUS WASTE</u>

(As specified under Hazardous Waste/ Management & Handling Rules, 2003)

1.	Hazardous Waste	Total Quantity (kg)	
		During the previous During the cu	
		FY 2019-20	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

Mm³ = 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:

Sl. No.	Particulars 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.2Future 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.

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 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, 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 31st March in Form – V to the concerned State Pollution Control Board on or before 30th 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	on :
(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.	Particulars		
No.			
1.	Name and address of the	Regional Workshop, Chandametta	
	Mine		
(a)	Place	WCL, Pench Area	
(b)	District	Chhindwara	
(c)	Telephone No.	6260565108	
(d)	FAX No.	-	
2.	Date of last Environmental	25 th September, 2020	
	Statement Report		
	submitted		

PART - "B"

WATER & RAW MATERIALS CONSUMPTION

Table – (a)

Water consumption on Usage Pattern

S1.	Particulars		
No.			
1.	Water Consumption (kl/day) :		
(a)	Process – Industrial:		
(i)	Dust suppression	-	
(ii)	Fire fighting	-	
(iii)	Workshop and others -		
(iv)	Green Belt	-	
(v)	CHP Beneficiation -		
(b)	Domestic Purpose		
(i)	Domestic Use	3.00	
(ii)	Green Belt in Township		
	TOTAL	3.00 kl/day	

Table – (b)

WATER CONSUMPTION AGAINST PRODUCTION (INCLUDING RECYCLED)

	Water Consumption per unit of product (including recycled)	
Name of the Product	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	Values of all parameters are
		attached for the year 2020-21	within permissible limits.
(B)	Air	Air Quality Monitoring reports	Values of all parameters are
		attached for the year 2020-21	within permissible limits.
(C)	Noise	Noise Quality Monitoring reports	Values of all parameters are
		attached for the year 2020-21	within permissible limits.

PART - "D"

HAZARDOUS WASTE

(As specified under Hazardous Waste/ Management & Handling Rules, 1989)

Total Quar		ntity (kg)	
1.	Hazardous Waste	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:

S1.	Particulars	Amount
No.		(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.	Particulars	Amount
No.		(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.

ENVIRONMENT AUDIT STATEMENT FORM-V

MAHADEOPURI UG MINE

FY 2020-21

Prepared by:



September - 2021

WESTERN COALFIELDS LIMITED
ENVIRONMENT DEPARTMENT
PENCH AREA
PARASIA - 480441

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INTRODUCTION

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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.

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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

Sr. No.	Partic	Particulars	
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	25 th September, 2020	
	Report submitted		

PART - B

WATER & RAW MATERIALS CONSUMPTION

Table – A Water consumption on Usage Pattern

Sr.no.	Water Consumption Category	Quantity/usage (in KL/day)
a)	Industrial	
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)	Domestic	
i.	Domestic use	5
ii.	Green Belt/Plantation	
	TOTAL	160

<u>Table – B Water Consumption Against Production (Including Recycled)</u>

Name of Product	Water Consumption	per unit of product
	(inclu	uding recycled)
	During the previous FY	During the current FY
	2019-20	2020-21
COAL	509.70 l/t	719.10 l/t

<u>Table – C Raw Material Consumption</u>

Name material	of raw	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	Values of all parameters are
		attached for the year 2020-21	within permissible limits.
(B)	Air	Air Quality Monitoring reports	Values of all parameters are
		attached for the year 2020-21	within permissible limits.
(C)	Noise	Noise Quality Monitoring reports	Values of all parameters are
		attached for the year 2020-21	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

 $Mm^3 = Million Cubic Metre$

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 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:

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.2Future 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

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 loses 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

Sr. No.	Partic	Particulars Particulars	
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	25 th September, 2020	
	Report submitted		

PART - B

WATER & RAW MATERIALS CONSUMPTION

Table – A Water consumption on Usage Pattern

Sr.no.	Water Consumption Category	Quantity/usage (in KL/day)
a)	Industrial	
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)	Domestic	
i.	Domestic use	8.00
ii.	Green Belt/Plantation	-
	TOTAL	298.00

<u>Table – B Water Consumption Against Production (Including Recycled)</u>

Name of Product	Water Consumption	per unit of product
	(inclu	uding recycled)
	During the previous FY 2019-20	During the current FY 2020-21
COAL	272.49 l/t	412.937 l/t

Table – C Raw Material Consumption

Name of ramaterial	aw Name of	Product Consumption product	Consumption of raw material per unit of product	
		During the pre FY 2019-20	evious 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	Values of all parameters are
		attached for the year 2020-21	within permissible limits.
(B)	Air	Air Quality Monitoring reports	Values of all parameters are
		attached for the year 2020-21	within permissible limits.
(C)	Noise	Noise Quality Monitoring reports	Values of all parameters are
		attached for the year 2020-21	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

 $Mm^3 = Million Cubic Metre$

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 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:

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.2Future 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

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 loses 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.

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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.

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Quote

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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

Sr. No.	Partic	Particulars Particulars	
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	25 th September, 2020	
	Report submitted		

PART - B

WATER & RAW MATERIALS CONSUMPTION

Table – A Water consumption on Usage Pattern

Sr.no.	Water Consumption Category	Quantity/usage (in KL/day)
a)	Industrial	
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)	Domestic	
i.	Domestic use	5
ii.	Green Belt/Plantation	-
	TOTAL	170

<u>Table – B Water Consumption Against Production (Including Recycled)</u>

Name of Product	Water Consumption	per unit of product
	(inclu	uding recycled)
	During the previous FY 2019-20	During the current FY 2020-21
COAL	128.89 l/t	381.00 l/t

<u>Table – C Raw Material Consumption</u>

Name material	of raw	Name of product	Consumption of raw material per unit 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
(4)	Water	Water Ovelity Manitoring remarks	
(A)	Water	Water Quality Monitoring reports	Values of all parameters are
		attached for the year 2020-21	within permissible limits.
(B)	Air	Air Quality Monitoring reports	Values of all parameters are
		attached for the year 2020-21	within permissible limits.
(C)	Noise	Noise Quality Monitoring reports	Values of all parameters are
		attached for the year 2020-21	within permissible limits.

<u>PART - D</u> <u>HAZARDOUS WASTE</u>

(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	

Mm³ = 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;
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G.3.2 Noise Pollution Control Measures suggested

The measures for reduction of noise level as envisaged in the EMP are as under:

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- Provision of green belt around Workshop, CHP and other sensitive areas;
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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.2Future 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

WESTERN COALFIELDS LIMITED
ENVIRONMENT DEPARTMENT
PENCH AREA
PARASIA - 480441

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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.

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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

Sr. No.	Partic	Particulars Particulars	
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	25 th September, 2020	
	Report submitted		

PART - B

WATER & RAW MATERIALS CONSUMPTION

Table – A Water consumption on Usage Pattern

Sr.no.	Water Consumption Category	Quantity/usage (in KL/day)
a)	Industrial	
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)	Domestic	
i.	Domestic use	5.00
ii.	Green Belt/Plantation	-
	TOTAL	125.0 0

$\underline{Table-B\ Water\ Consumption\ Against\ Production\ (Including\ Recycled)}$

Name of Product	Water Consumption	per unit of product
	(inclu	iding recycled)
	During the previous FY	During the current FY
	2019-20	2020-21
COAL	313.68 l/t	438.87 l/t

<u>Table – C Raw Material Consumption</u>

Name material	of raw	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 standard		
			reasons	
(A)	Water	Water Quality Monitoring reports	Values of all parameters are	
		attached for the year 2020-21	within permissible limits.	
(B)	Air	Air Quality Monitoring reports	Values of all parameters are	
		attached for the year 2020-21	within permissible limits.	
(C)	Noise	Noise Quality Monitoring reports	Values of all parameters are	
		attached for the year 2020-21	within permissible limits.	

<u>PART - D</u> <u>HAZARDOUS WASTE</u>

(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

Mm³ = 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 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:

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.2Future 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

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 loses 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:
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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

Sr. No.	Particulars Particulars	
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	25 th September, 2020
	Report submitted	

PART - B

WATER & RAW MATERIALS CONSUMPTION

Table – A Water consumption on Usage Pattern

Sr.no.	Water Consumption Category	Quantity/usage (in KL/day)
a)	Industrial	
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)	Domestic	
i.	Domestic use	5
ii.	Green Belt/Plantation	Nil
	TOTAL	300

<u>Table – B Water Consumption Against Production (Including Recycled)</u>

Name of Product	Water Consumption	per unit of product
	(inclu	iding recycled)
	During the previous FY 2019-20	During the current FY 2020-21
COAL	Nil	3111.60 l/t

<u>Table – C Raw Material Consumption</u>

Name material	of raw	Name of product	Consumption of raw n product	naterial per unit of
			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	Values of all parameters are
		attached for the year 2020-21	within permissible limits.
(B)	Air	Air Quality Monitoring reports	Values of all parameters are
		attached for the year 2020-21	within permissible limits.
(C)	Noise	Noise Quality Monitoring reports	Values of all parameters are
		attached for the year 2020-21	within permissible limits.

<u>PART - D</u> <u>HAZARDOUS WASTE</u>

(As specified under Hazardous Waste/ Management & Handling Rules, 2003)

1.	Hazardous Waste	Total Quantity (kg)	
		During the previous	During the current
		FY 2019-20	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

Mm³ = 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:

Sl. No.	Particulars	Amount (Rs)
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.2Future 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

VISHNUPURI NO. II UG MINE

FY 2020-21

Prepared by:



September - 2021

WESTERN COALFIELDS LIMITED
ENVIRONMENT DEPARTMENT
PENCH AREA
PARASIA - 480441

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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.

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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

Sr. No.	Partic	culars
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	25 th September, 2020
	Report submitted	

PART - B

WATER & RAW MATERIALS CONSUMPTION

Table – A Water consumption on Usage Pattern

Sr.no.	Water Consumption Category	Quantity/usage (in KL/day)
a)	Industrial	
i.	Dust Suppression/recycling for roof support	20.00
ii.	Fir Fighting	-
iii.	Workshop and others	-
iv.	Green Belt/Plantation	-
V.	CHP Beneficiation	-
b)	Domestic	
i.	Domestic use	05.00
ii.	Green Belt/Plantation	-
	TOTAL	25.00

<u>Table – B Water Consumption Against Production (Including Recycled)</u>

Name of Product	Water Consumption	per unit of product
	(inclu	uding recycled)
	During the previous FY 2019-20	During the current FY 2020-21
COAL	78.20 l/t	81.55 l/t

<u>Table – C Raw Material Consumption</u>

Name of material	raw	Name of product	Consumption of raw n	naterial per unit of
			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)

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			prescribed standards with
			reasons
(A)	Water	Water Quality Monitoring reports	Values of all parameters are
		attached for the year 2020-21	within permissible limits.
(B)	Air	Air Quality Monitoring reports	Values of all parameters are
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(C)	Noise	Noise Quality Monitoring reports	Values of all parameters are
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<u>PART - D</u> <u>HAZARDOUS WASTE</u>

(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

Mm³ = 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.

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Impacts of pollution control measures on conservation of natural resources and consequently on coal production.

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The likely sources of air pollution are as under:

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- 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:

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.2Future 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

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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

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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
 - 3.1 BIOMEDICAL WASTE MANAGEMENT
- IV FORM-V

Part-A

Part-B

Part-C

Part-D

Part-E

Part-F

Part-G

Part-H

Part-I

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 loses 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 sbmission of an environmental statement is applicable to the following.

- 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	Area Hospital
2.	Location	WCL, Pathakhera Area, Distt : Baitul State : Madhya Pradesh
3.	Bed capacity	60 Beds
4.	Water Consumption	20.90 KLD

CHAPTER - III

BASIS FOR ENVIRONMENTAL STATEMENT

3.1 Water Quality

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.

3.2. Air Quality

No Activity in the Hospital Services made any kind of air emission.

CHAPTER - IV

FORM - V PART - "A"

SI.	Particulars		
No.			
1.	Name and address of the Unit	AREA HOSPITAL	
(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

SI.No.	Particulars	
1.	Water Consumption (kl/day) :	
(a)	Health care Service Unit :	
(i)	Flushing	6.600 KLD
(ii)	Fire fighting	-
(b)	Domestic Purpose	
(i)	Domestic Use	13.800 KLD
(ii)	Green Belt / Plantation	0.500 KLD
	TOTAL	20.900 KLD

Table – (b) WATER CONSUMPTION AGAINST PRODUCTION (INCLUDING RECYCLED)

	Water Consumption per unit of product			
	(including recycled)			
Name of the 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 Health care Service Unit	-	-		

RAW MATERIAL CONSUMPTION AGAINST PRODUCTION

		Consumption of Raw Material	
Name of the	Name of the	per Unit of Product	
Raw Material	Product	During the Previous Financial Year 2019-20 Enamed 2020-21	
Not Applicable Production Unit care Serv	t, but a Health	-	-

а

PART - "C" **POLLUTION GENERATED**

(Parameters specified in the consent issued)

		Quantity of	Percentage
1.	Pollutants	Pollution	variation from
		Generated	prescribed
			standards with
			reasons
			Adequate
(a)	Water	18 KLD	Sewage
			Treatment has
			been Provided.
			No Activity in
			the Hospital
(b)	Air	N.A	Services made
			any kind of air
			emission.

PART - "D-1" HAZARDOUS WASTE

(As specified under Hazardous Waste/ Management & Handling Rules, 2016)

		Total Quantity (kg)	
1.	Hazardous Waste	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 - "D-2" **BIO MEDICAL WASTE**

(As specified under Bio Medical Waste (Management & Handling) Rules, 2016)

	Bio Medical	Total Quant	ity (kg)	Remark
1.	Waste			
	Category			
		During the	During the	
		Previous	Current	
		Financial Year 2019	Financial Year	
		2019	2020	
(a)	Yellow	3823.03 kg	3009.93 kg	All category of Bio
	Category			medical waste has
(b)	Red Category	819.22 kg	1231.34 kg	been handed over
(c)	White	327.69 kg	492.53 kg	toera Authorized
				BMW Operator. i.e.
(d)	Blue Category	491.53 kg	738.80 kg	M/s. Environment
				Protection
				Corporation

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

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.

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 implémentation 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	PROGRESSIVE
		2020-21	
<u>A</u>	ENVI	<u>RONMENT CAPITAL</u> <u>HE</u>	AD
1	Air Pollution Control	Nil	Nil
2	Water Pollution Control	Nil	Rs 2.50 Lacs
			(up to 31.03.2021)
<u>B</u>	ENVIR	CONMENT REVENUE HE	<u>EAD</u>
1	Garden Maintenance	Rs. 1.45 Lacs	Rs. 2.85 Lacs
			(up to 31.03.21)
2	Legal Expenses consent	Nil	Rs4.40 Lacs
	fees Paid		(up to 31-08-2021)

H.2 Future Programme

Regular pollution control measures will continue to be followed.

SI.	Particulars	Amount
No.		(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.

Under Jurisdiction of Nagpur Court only



पर्यावरण विभाग

वेस्टर्न कोलफील्ड्स लिमिटेड

Western Coalfields Limited

(मिनीरल कंपनी) (A Miniratna Company)

(कोल इंडिया लि. की अनुषंगी कंपनी)

(A Subsidary of Coal India Limited)

Office of Area Environment Officer Pathakhera Area

Environment Department

Phone/FAX: 07146-270455/ 07146-270163

Email: env.pkd.wcl@gmail.com CINUI0100MH1975GO1018626

को व वेस्टर्न कोलकीव्यस लिमिटेड प्रथाकेटा- 460449

Regd. Off: WESTERN COALFIELDS LIMITED, PATHAKHERA - 460449

दिनॉक/Date:28.06.2021

संदर्भ संख्या/Ref.No.:WCL/GM/PKD/ENV /2021 / 750

क्षेत्रीय पर्यावरण अधिकारी कार्यालय पायाखेडा क्षेत्र

प्रति

क्षेत्रीय अधिकारी

क्षेत्रीय कार्यालय

म प्र प्रदूषण नियंत्रण बोर्ड, छिंदवारा रीजन,

मुंल्ला जी पेट्रोल पम्प के सामने

परासिया रोड , छिंदवारा (म प्र)

पिन - 480001

विषय - Regarding submission of Annual Return for the period from 1st January 2020 to 31st 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 1st January 2020 to 31December 2020 in respect of Area hospital, Pathakhera Area, WCL for your kind perusal.

भवदीय

ेत. भी परेसरियह/६/२। क्षेत्रीय पर्यावरण अधिकारी

पाथाखेरा क्षेत्र

Encl- as above.

प्रतिलिपि ,

- 1- क्षेत्रीय महाप्रबंधक , पाथाखेरा क्षेत्र
- 2- महाप्रबंधक/ विभगाध्यक्ष (पर्या) वेकोलि नागपुर

क्षेत्रीय चिकित्सा अधिकारी , पाथाखेरा क्षेत्र

o/c

A. Environment Statement (Form-V) Uploaded in XGN on 30/09/2021 19:22:28 from IP No: 103.246.40.227.

Form - IV (See rule 13) ANNUAL REPORT

[To be submitted to the prescribed authority on or before 30th 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)]

SI. No.	Particulars	11	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, Pathakhera Area
	(ii) Name of HCF or CBMWTF	***	M/s. Environment Protection Corporation
	(iii) Address for Correspondence	28	- W
	(iv) Address of Facility		Area Hospital, WCL, Pathakhera Area, Betul Dist, M.P. 460449
	(v)Tel. No, Fax. No	•	6263751045, 7987104114
	(vi) E-mail ID	8	env.pkd.wcl@gmail.com
	(vii) URL of Website (viii) GPS coordinates of HCF or CBMWTF		http://www.westerncoal.gov.in/
	(ix) Ownership of HCF or CBMWTF		(State Government or Private or Semi Govt. or any other) <u>Any other</u> (Government of India Undertaking)
	(x). Status of Authorization under the Bio-Medical Waste (Management and Handling) Rules	123	Applied for Bio-Medical Waste Authorization
	(xi). Status of Consents under Water Act and Air Act	1	Applied for Air , Water CTE & CTC
2.	Type of Health Care Facility	\$3	
	(i) Bedded Hospital	18	No. of Beds 60
	(ii) Non-bedded hospital (Clinic or Blood Bank or Clinical Laboratory or Research Institute or Veterinary Hospital or any other)	15.	
	(iii) License number and its date of expiry		
3.	Details of CBMWTF	*	
	(i) 'Number healthcare facilities covered by CBMWTF	8	N.A. As WCL is Occupier
	(ii) No of beds covered by CBMWTF	1	
	(iii) Installed treatment and disposal capacity of State BMW They) Uploaded in XGN on 30/09/2021 19:22:28 from IP No: 10	3	

	(iv) Quantity of biomedical waste treated by CBMWTF	:01:Q1	isposed	9				
4.	Quantity of waste generated or disposed in Kg per annum (on monthly average basis)			Œ.	Yellow Category : 3009.93 Red Category : 1231.34			
					White	legory	: 1231.	
				1	White : 492.53 Blue Category : 738.80			
					General	Solid w	aste :	,,,
5	Details of the Storage, treatment, transportation, process			sing a	nd Dispos	al Facilit	ty	
	(1) Details of the on-site storage		Size		m X 2 m			
	facility		Capaci	ty: 1	50 kg			
			Provis	ion of	on-site sto	rage	: (cold st	orage or
					vision)	0.50		
	(ii) Details of the treatment or disposal facilities		trea equ	e of iment pmen erators a Pyro	olysis	No of units	Capacity Kg/ day	Quantity treated or disposed in kg per annum
		-Micr -Hydr -Shree -Need destre	-Micro -Hydro -Shred	wave oclave der e tip c er	vave clave er tip cutter or			
			encaps concre burial -Chem disinfe	atlation te pit l pits: ical ection: other to	Осер	04	0.3	
	(iii) Quantity of recyclable wastes sold to authorized recyclers after treatment in kg per annum.		Red Category (like pla		y (like pla	stic, glass	s etc.) Nil.	1
	(iv) No of vehicles used for collection and transportation of biomedical waste	4				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	8:	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		
1	(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		202
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 ronm	Is the disinfection method or ent Statement (Form-V). Uploaded in XGN on 30/09/2021 a Hospital, Wel-Pathakhera Area accepts the FEGAL	19:22	Yes. :28 from IP No: 103.246.40.227.

	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								
INSTIT	UTION		,	WCL Pathakheda, Sarni -Betul				
ADDI	RESS		Pathakheda Area, Betul					
OWNER/OCCUPIER			94256-57665					
NO OF	BEDS				120			
EMA	IL ID				0			
CONTA	CT NO			!	94256-576	665		
			С	AT. OF E	MW			
PERIOD	BEDS	YELLOW	RED	BLUE	WHITE	LIQUID WASTE		
		in kgs	in kgs	in kgs	in kgs	in Itrs		
			AUTOCLAVABLE					
		INCINERABLE	7.010027(77.522		 			
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 A	VERAGE	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 loses 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:
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"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	Chhatarpur I & II UG Mine
2.	Location	WCL, Pathakhera 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

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 "l" 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"

SI.	Particulars	
No.		
1.	Name and address of the Mine	Chhatarpur I & II UG Mine
(a)	Place	WCL, Pathakhera Area
(b)	District	Betul
(c)	Telephone No.	07146-290026
(d)	FAX No.	07146-270566
2.	Date of last Environmental	29 th May, 2020
	Statement Report submitted	
3.	Industry category Primary-(STC	Category "A"
	Code) Secondary-(STC Code)	
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

SI.N		
	Particulars	
0.		
1.	Water Consumption (kl/day):	
(a)	Process – Industrial :	
(i)	Dust suppression	
(ii)	Fire fighting	140 KLD
(iii)	Workshop and others	
(iv)	CHP Beneficiation	
(b)	Domestic Purpose	
(i)	Domestic Use (from other source)	41 KLD
(ii)	Plantation	509 KLD
	TOTAL	690 KLD

Table – (b)

WATER CONSUMPTION AGAINST PRODUCTION (INCLUDING RECYCLED)

THE CONSONI HOW TO THE THE POPULATION (INSEED INSTRUCTION						
Water Consumption						
	per unit of product					
	(including recycled)					
Name of the Product	During the Previous	During the Current				
	Financial Year	Financial Year				
	2019-20	2020-21				
	451.857 l/t	554.317 l/t				
COAL	of coal produced	of coal produced				

RAW MATERIAL CONSUMPTION AGAINST PRODUCTION (INCLUDING RECYCLED)

		Consumption of Raw Material					
Name of the	Name of the	per Unit of					
Raw Material	Product	During the Previous During the Cu					
		Financial Year	Financial Year				
		2019-20	2020-21				
Explosive	Coal	0.5032 kg/t	0.5000 kg/t				
Detonator	Coal	0.955 No/t	0.967 No/t				
Electricity (Industrial)	Coal	15.42 kWh/t	18.29 kWh/t				

PART - "C" POLLUTION GENERATED

(Parameters specified in the consent issued)

	,	Quantity of Pollution	Percentage
1.	Pollutants	Generated	variation from
			prescribed
			standards with
			reasons
			Values of
(a)	Water	See Annexure-A2	parameters are
			within permissible
			limits.
			Levels of air
			pollutants are
(b)	Air	See Annexure-A1	within permissible
			limits.

PART - "D"

HAZARDOUS WASTE

(As specified under Hazardous Waste/ Management & Handling Rules, 1989)

		Total Quantity (kg)					
1.	Hazardous Waste	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				
t is a	n 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 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.

- 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.

PART - "H"

ADDITIONAL INVESTMENT PROPOSAL FOR ENVIRONMENTAL PROTECTION IN THE AREA:

H.1 The project has incurred an expenditure (in FY2020-21) on the followings in connection with environmental management in the area:

SI.	Heads		Chhatarpur – I &II							
N.		Current Year 2020-21	Progressive							
A	ENVIRONMENT CAPITAL ACCOUNT HEAD									
1	Reclamation	Nil								
2	Air Pollution control	Nil	Rs 68.50 Lacs (Up to 31.03. 2021)							
3	Water pollution contro	l Nil	Rs 11.10 Lacs (Up to 31.03. 2021)							
4	Other (Water Meter)	Nil	Rs 0.89 Lacs (Up to 31.03. 2021)							
В	B ENVIRONMENT REVENUE ACCOUNT HEAD									
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							

H.2 Future Programme

Regular pollution control measures will continue to be followed.

SI.	Particulars	Amount
No.		(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.

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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

Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.			RIN/TR/SEPTE	EMBER-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	TEST REQUIRED SPM: IS 5182 Part-4:199			99(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance					
NAME OF AREA			PATHARKHERA			SAMPLING PLAN : LO	QR 47		
NAME OF PROJECT		CHATTARPUR	R I & II UG				_		
SAMPLE DESCRIPTION Air sample									
SAMPLING METHOD : L	SOP 4			-					

SUBSTATION-CHATTARPUR I UG: PKCUA1								
DATE/dd.mmuu.l		ENVIRONMENT						
DATE(dd:mm:yy) OF SAMPLING		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS	
FROM	TO	5	5	2	6	10	(Sky/Wind)	
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 TH September 2000		600	300	-	120	120		

	SAM OFFICE: PKCUA2								
DATE(dd.mmu.u.)	OL CAMBLING)	ENVIRONMENT					
DATE(dd.IIIII.yy)	DATE(dd:mm:yy) OF SAMPLING		PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS		
FROM	TO	5	5	2	6	10	(Sky/Wind)		
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 TH September 2000		600	300	-	120	120			

SUBSTATION-CHATTARPUR II UG: PKCUA3									
DATE(ddimming)	DATE(Address A OF CAMADUMC			PARAMETERS (24 hourly values in μg/m³)					
DATE(dd:mm:yy) OF SAMPLING		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS		
FROM	TO	5	5	2	6	10	(Sky/Wind)		
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 TH September 2000		600	300	-	120	120			

CHATTARPUR VILLAGE: PKCUA4								
DATE(dd.ma.ma)		ENVIRONMENT						
DATE(dd:mm:yy)	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS		
FROM	TO	5	5	2	6	10	(Sky/Wind)	
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		



Analysed by

Deepanshu sahu Authorised Signatory

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- 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					
SAMPLING METHOD	LSOP 5					

MINE WATER DISCHARGE-I UG: PKCUW1								
DATE OF SAMPLE		ANALYSIS RESULTS						
COLLECTION	рН	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	ANALYSIS RESULTS							
COLLECTION	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.	5.5 - 9.0	100	250	10				
25/09/2000								

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Analysed by

Deepanshu sahu Authorised Signatory

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NOISE LEVEL MONITORING DATA

	FAN HOUSE-I UG:	PKCUN1		
	DATE OF SAMPLE	NOISE LEVEL IN (dB(A)	
MONTH	COLLECTION	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 (R	EGULATION AND CONTROL)	75	70	
	RULES	/5	/0	

	FAN HOUSE-II UG:	PKCUN2		
	DATE OF SAMPLE	NOISE LEVEL IN (JR(A)	
MONTH	COLLECTION	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	
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
MONTH	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

Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.		RIN/TR/MAR-21/79				DATE OF ISSUE	28.04.2021		
NAME OF CUSTOMER			GM(ENV.), W	CL(HQ), NAGP	UR	JR			
CUSTOMER LETTER REF	ERENCE NO).	WCL/HQ/EN\	//14-I/588-615	/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 $_2$: IS 5182 Part-06:2006(2017), SO $_2$:IS 5182 Part-2:2001(RA 2017)							
NAME OF AREA			PATHARKHERA			SAMPLING PLAN : LQR	47		
NAME OF PROJECT	CHATTARPU			R I & II UG					
SAMPLE DESCRIPTION Air sample					=				
SAMPLING METHOD : L	SOP 4			=					

SUBSTATION-CHATTARPUR I UG: PKCUA1							
DATE(dd:mm:yy) OF SAMPLING			PARAMETERS	(24 hourly va	lues in μg/m³))	
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	5	5	2	6	10	- CONDITIONS (Sky/Willu)
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 TH September 2000		600	300	-	120	120	

SAM OFFICE: PKCUA2							
DATE(dd:mm;;;u)	PARAMETERS (24 hourly values in μg/m³)					FAIL //D CALA 4FAIT	
DATE(dd:mm:yy) OF SAMPLING		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	5	5	2	6	10	CONDITIONS (Sky/ Willu)
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 TH 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/m³)					ENIVER CONTRACT
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	5	5	2	6	10	CONDITIONS (Sky) Willu)
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 TH September 2000		600	300	-	120	120	

CHATTARPUR VILLAGE: PKCUA4								
DATE/dd.mama.u.u.	PARAMETERS (24 hourly values in μg/m ³)					5411 (ID CALLA (54) T		
DATE(dd:mm:yy) OF SAMPLING SPM		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	5	5	2	6	10	CONDITIONS (Sky) Willu)	
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		

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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		ANALYSI	S RESULTS			
COLLECTION	pН	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		ANALYSI	S RESULTS				
COLLECTION	pН	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			



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NOISE LEVEL MONITORING DATA

FAN HOUSE-I UG:		PKCUN1		
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)		
MONTH	COLLECTION	DAY TIME	NIGHT TIME	
	DETECTION LIMIT	20	20	
MAR'21	09.03.2021	69.4	68.1	
MAR'21	30.03.2021	70.4	69.7	
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70	

	FAN HOUSE-II UG:	PKCUN2	
FAN HOUSE-II UG:		PRCUNZ	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
MAR'21	09.03.2021	68.8	67.9
MAR'21	30.03.2021	69.9	68.8
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY:		PKCUN3	
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
MONTH	DETECTION LIMIT	20	20
MAR'21	09.03.2021	44.6	43.4
MAR'21	30.03.2021	43.2	42.6
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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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

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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
 - 3.1 Water Quality
 - 3.2 Air Quality
 - 3.3 Pollution Control Methods
- IV FORM-V

Part-A

Part-B

Part-C

Part-D

Part-E

Part-F

Part-G

Part-H

Part-I

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 loses 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	, REGIONAL WORKSHOP
2.	Location	WCL, Pathakhera 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. Asphalting of Road has been carried out to check the fugitive emission.
- 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.

CHAPTER - IV

FORM - V PART - "A"

	I AINI	A	
SI.	Particulars		
No.			
1.	Name and address of the Unit	Regional Workshop	
(a)	Place	WCL, Pathakhera Area	
(b)	District	Baitul	
(c)	Telephone No.	7987104114	
2	Industry category	Small Scale Industry	
	Secondary-(STC Code)	As the Capital Investment is	
		below Rs. 10 Crore	
3	Year of Establishment	1987	

PART - "B"

WATER & RAW MATERIALS CONSUMPTION Table – (a) Water consumption on Usage Pattern

SI.No.	Particulars	
1.	Water Consumption (kl/day) :	
(a)	Operation - Industrial :	
(ii)	Fire fighting	-
(b)	Domestic Purpose	
(i)	Domestic Use	2.38 KLD
(ii)	Flushing	1.19 KLD
(iii)	Green Belt / Plantation	0.5 KLD
	TOTAL	4.07 KLD

Table – (b) WATER CONSUMPTION AGAINST PRODUCTION (INCLUDING RECYCLED)

	Water Consumption		
	per unit o	f product	
	(including recycled)		
Name of the Product	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	Name of the	Consumption of Raw Material per Unit of Product		
Raw Material	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	

PART - "C" POLLUTION GENERATED

(Parameters specified in the consent issued)

		Quantity of	Percentage
1.	Pollutants	Pollution	variation from
		Generated	prescribed
			standards with
			reasons
			Adequate
(a)	Water (Domestic Sewage)	4.07 KLD	Sewage
			Treatment has
			been Provided.
		N.A	Only Fugitive
(b)	Air		Emission.

PART - "D" HAZARDOUS WASTE

(As specified under Hazardous Waste/ Management & Handling Rules, 1989)

		Total Quantity (kg)			
1.	Hazardous Waste (Burnt Oil)	During the Previous Financial Year 2019-20	During the Current Financial Year 2020-21		
(a)	From Operation of	250 Liters	90 Liters		
	Welding Machine				
(b)	From Pollution	Nil	Nil		
	Control Facilities				

PART - "E"

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

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) Used Oil is disposed off through authorized/registered recyclers/rerefiner if any.
- (ii) Total quantity of solid wastes generated in the case of Regional Workshop is 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 are as under:

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.

G.1 SOURCES OF AIR POLLUTION

The likely sources of air pollution are as under:

- Loading and transportation of Products;

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. Asphalting 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.

G.1.2 Implementation Status

- 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 WATER POLLUTION

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.

G.2.2 Water Pollution Control Measures

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.2.3 Implementation Status

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	PROGRESSIVE
		YEAR	
		2020-21	
<u>A</u>	ENVIRON	MENT CAPITAL H	EAD
1	Air Pollution Control	Nil	Nil
2	Water Pollution Control	Nil	Rs 2.50 Lacs
			(up to 31.03.2021)
<u>B</u>	ENVIRONM	IENT REVENUE H	IEAD
1	Green Belt Development	Nil	Rs. 1.45 Lacs
			(up to 31.03.21)
2	Legal Expenses consent fees	Nil	Rs 1.07 Lacs
	Paid		(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.

SI.	Particulars	Amount
No.		(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.

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

SARNI UG MINE PATHAKHERA AREA WESTERN COALFIELDS LTD.

ENVIRONMENT STATEMENT FOR THE YEAR APRIL, 2020 – MARCH, 2021 SARNI 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 loses 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"

SI.	Particulars						
No.							
1.	Name and address of the Mine	Sarni UG Mine					
(a)	Place	WCL, Pathakhera Area					
(b)	District	Baitul					
(c)	Telephone No.	07146-270757					
(d)	FAX No.	07146-270455					
2	Industry category Primary-(STC	Category "A"					
	Code) Secondary-(STC Code)						
3	Production Capacity	0.720 MTPA					
4	Year of Establishment	1979					
5	Date of last Environmental	5 th June, 2020					
	Statement Report submitted						

PART - "B" WATER & RAW MATERIALS CONSUMPTION

Table – (a) Water consumption on Usage Pattern

SI.No.	Particulars	
1.	Water Consumption (kl/day) :	
(a)	Process – Industrial :	
(i)	Dust suppression	150.00 KLD
(ii)	Fire fighting	-
(iii)	Workshop and others	-
(iv)	CHP Beneficiation	-
(b)	Domestic Purpose	
(i)	Domestic Use	4.99 KLD
(ii)	Green Belt / Plantation	50.00 KLD
	TOTAL	204.99 KLD

Table – (b) WATER CONSUMPTION AGAINST PRODUCTION (INCLUDING RECYCLED)

	Water Consumption per unit of product				
	(including recycled)				
Name of the Product	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

		Consumption of Raw Material						
Name of the	Name of the	per Unit of Product						
Raw Material	Product	During the Previous Financial Year 2019-20	During the Current Financial Year 2020-21					
Explosive	Coal	0.3198 kg/t	0.2842 kg/t					
Detonator	Coal	0.6940 No/t	0.6292 No/t					
Electricity (Industrial)	Coal	24.0847 kWh/t	40.7272 kWh/t					

PART - "C" POLLUTION GENERATED

(Parameters specified in the consent issued)

		Quantity of	Percentage
1.	Pollutants	Pollution	variation from
		Generated	prescribed
			standards with
			reasons
			Values of
(a)	Water	See Annexure-A2	parameters are
			within
			permissible
			limits.
			Levels of air
			pollutants are
(b)	Air	See Annexure-A1	within
			permissible
			limits.

PART - "D" HAZARDOUS WASTE

(As specified under Hazardous Waste/ Management & Handling Rules, 1989)

		Total Quantity (kg)					
1.	Hazardous Waste	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.

G.3.3 Implementation Status

- 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.

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
Α	ENVIRON	MENT CAPITAL HEAD	
<u>A</u> 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	Nil	Rs. 20 Lacs
	forest growth and Afforestation		(up to 31.03.2021)
	measures including compensatory		
	afforestation.		
5	Other (Water meter)	Nil	Rs. 0.95 Lacs
			(up to 31.03.2021)
<u>B</u>		MENT REVENUE HEAD	
1	Afforestation		From 1997-98
			Rs. 1.87 Lacs
			(up to 31.03.21)
2	Air , Water & Noise Monitoring	Rs. 25.60 Lacs	From 2007-08
	Charges		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	Nil	From 2007-08
	31.03.2019)		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.

SI.	Particulars	Amount
No.		(Rs)
1.	Air pollution control measure	-
2.	Water Cess	-
3.	Consent Fees	As Per MPPCB Rate
		Notification
4.	Air, Water, Noise Quality Monitoring,	15, 00,000.00
	etc. for Year 2019-20	
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.

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

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

Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.			RIN/TR/SEPTI	EMBER-20/80		DATE OF ISSUE	30.10.20)20
NAME OF CUSTOMER GM(ENV.), W				CL(HQ), NAGPU	JR	•	•	
CUSTOMER LETTER REFERENCE NO. WCL/HQ/EN				//14-I/588-615	DATED: 15.0	06.20		
TEST REQUIRED SPM: IS 5182 Part-4:1999(RA			1999(RA 2019)), PM-10: IS-518	32 Part 23:20	006(RA 2017), PM2.5: US	EPA Quality Ass	urance
NAME OF AREA		PATHARKHER	RA		SAMPLING PLAN : LQF	R 47		
NAME OF PROJECT			SARNI UG					
SAMPLE DESCRIPTION Air sample		!		-'				
SAMPLING METHOD : LSOP 4			_					

SUBSTATION SARNI UG: PKSUA1							
PARAMETERS (24 hourly values in μg/m³)						ENVIRONMENT	
DATE(dd:mm:yy	DATE(dd:mm:yy) OF SAMPLING SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂						CONDITIONS
FROM	TO	TO 5 5 2 6 10				10	(Sky/Wind)
02.09.20	03.09.20	99	99 66 27 15			BDL	CLEAR CALM
27.09.20	28.09.20	89	89 60 30 12 BDL				CLEAR CALM
STANDARDS FOR COA	600	200		120	120		
dt. 25 [™] Sept	600	300	-	120	120		

NEAR DY.CME OFFICE: PKSUA2							
DATE/dd.ma.ma.u.u.) OF CAMPLING		PARAMETERS (24 hourly values in μg/m³)				
DATE(dd:mm:yy) OF SAIVIPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS
FROM	5	5	2	6	10	(Sky/Wind)	
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 COA	600	300	-	120	120		

	GM OFFICE ENTRANCE GATE: PKSUA3											
DATE(dd:mm:y	DATE(dd:mm:yy) OF SAMPLING PARAMETERS (24 hourly values in µg/m²) SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂											
FROM	TO	5	5	2	6	10	(Sky/Wind)					
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					
NAAC	S, 2009	-	100	60	80	80						

	PATHAKHERA COLONY: PKSUA4										
DATE/dd:mm:u	DATE(dd:mm:yy) OF SAMPLING PARAMETERS (24 hourly values in µg/m³)										
DATE(dd.iiiii.y	/) OF SAIVIPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS				
FROM	TO	5	5	2	6	10	(Sky/Wind)				
02.09.20	03.09.20	82	55	23	12	BDL	CLEAR CALM				
27.09.20	27.09.20 28.09.20 87 63 26 10 BDL										
NAAQ	NAAQS, 2009 - 100 60 80 80										

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SAMPLE DESCRIPTION	Water sam	Water sample							
Test Required	pH: IS 302	5 -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	ANALYSIS RESULTS									
COLLECTION	pН	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						

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NOISE LEVEL MONITORING DATA

	FAN HOUSE:	PKSUN1		
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)	
MONTH	COLLECTION	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	
	ON (REGULATION AND FROL) RULES	75	70	

	COLONY(SARNI	PKSUN2			
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)		
MONTH	COLLECTION	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		
	ON (REGULATION AND FROL) 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

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR, JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY



Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.			RIN/TR/MAR-21/80 DATE			DATE OF ISSUE	28.04.2021			
NAME OF CUSTOMER GM(ENV.)				M(ENV.), WCL(HQ), NAGPUR						
CUSTOMER LETTER REFERENCE NO. WCL/HQ/ENV/14-I/58					DATED: 15.0	6.20				
TEST REQUIRED	TEST REQUIRED SPM: IS 5182 Part-4:1999(RA 2019), PM-10:				2 Part 23:20	06(RA 2017), PM2.5: USEI	PA Quality Assurance	e guidance		
NAME OF AREA			PATHARKHER	RA		SAMPLING PLAN : LQR	47			
NAME OF PROJECT			SARNI UG				<u></u>			
SAMPLE DESCRIPTION Air sample										
SAMPLING METHOD:			_							

SUBSTATION SARNI UG: PKSUA1										
DATE/dd:mmuu) OF CAMPLING		PARAMETERS (24 hourly values in μg/m³)							
DATE(dd:mm:yy) OF SAIVIPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)			
FROM	TO	5	5	2	6	10	CONDITIONS (Sky/ Willu)			
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),		600	200		120	120				
dt. 25 TH September 2000		600	300	-	120	120				

NEAR DY.CME OFFICE: PKSUA2										
DATE(dd:mm:yy	V OE SAMBLING		PARAMETERS	(24 hourly v	/alues in μg/m	3)	ENVIRONMENT			
DATE(dd.IIIII.y)	/) OF SAIVIFLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS (Sky/Wind)			
FROM	TO	5	5	2	6	10	CONDITIONS (SKY/WIIIU)			
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 TH September 2000		600	300	-	120	120				

	GM OFFICE ENTRANCE GATE: PKSUA3											
DATE(PARAMETERS (24 hourly values in ug/m³)											
DATE(dd:mm:y	y) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)					
FROM	ROM TO		5	2	6	10	CONDITIONS (Sky) Willu)					
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 TH September 2000		600	300	-	120	120						

	PATHAKHERA COLONY: PKSUA4										
DATE/dd:mm:va	V OE SAMBLING		PARAMETERS (24 hourly values in μg/m³)								
DATE(dd.IIIII.y)	DATE(dd:mm:yy) OF SAMPLING			PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)				
FROM	TO	5	5	2	6	10	CONDITIONS (Sky/ Willu)				
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					

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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	ANALYSIS RESULTS			
COLLECTION	pН	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	
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)
MONTH	COLLECTION	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
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

	COLONY(SARNI)		
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)
MONTH	COLLECTION	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
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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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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ı	INTR	ODUCTION	1-2
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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 loses 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	
<u>4.</u> 5.	Water Consumption Raw Material Consumption :	75.085 KLD	
	Transmaterial Concernition :		
(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"

SI.	Particulars		
No.			
1.	Name and address of the Mine	Shobhapur UG Mine	
(a)	Place	WCL, Pathakhera Area	
(b)	District	Baitul	
(c)	Telephone No.	07146-270064, 270566	
(d)	FAX No.	07146-270566	
2	Industry category Primary-(STC	Category "A"	
	Code) Secondary-(STC Code)		
3	Approved Production Capacity	0.600 MTPA	
4	Year of Establishment	1975	
5	Date of last Environmental	07 th June , 2020	
	Statement Report submitted		

PART - "B"

WATER & RAW MATERIALS CONSUMPTION

Table - (a) Water consumption on Usage Pattern

SI.No.	Particula	ırs	
1.	Water Consumption (kl/day) :		
(a)	Process – Industrial :		
(i)	Dust suppression	56.000	KLD
(ii)	Fire fighting	-	
(iii)	Workshop and others	-	
(iv)	CHP Beneficiation	-	
(b)	Domestic Purpose		
(i)	Domestic Use	14.085	KLD
(ii)	Green Belt / Plantation	5.000	KLD
	TOTAL	75.085	KLD

Table – (b) WATER CONSUMPTION AGAINST PRODUCTION (INCLUDING RECYCLED)

	Water Consumption		
	per unit of product		
	(including recycled)		
Name of the Product	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

		Consumption of Raw Material			
Name of the	Name of the	per Unit of Product			
Raw Material	Product	During the Previous Financial Year 2019-20		During the Co Financial Y 2020-21	'ear
Explosive	Coal	0.3756	kg/t	0.3438	kg/t
Detonator	Coal	1.0220	No/t	0.9210	No/t
Electricity (Industrial)	Coal	16.9537	kWh/t	18.91	kWh/t

PART - "C"

POLLUTION GENERATED

(Parameters specified in the consent issued)

		Quantity of	Percentage
1.	Pollutants	Pollution	variation from
		Generated	prescribed
			standards with
			reasons
			Values of
(a)	Water	See Annexure-A2	parameters are
			within
			permissible
			limits.
			Levels of air
			pollutants are
(b)	Air	See Annexure-A1	within
			permissible
			limits.

PART - "D" HAZARDOUS WASTE

(As specified under Hazardous Waste/ Management & Handling Rules, 1989)

		Total Quantity (kg)	
1.	Hazardous Waste	During the Previous Financial Year 2019-20	During the Current Financial Year 2020-21
(a)	From Process	Nil	Nil
(b)	From Pollution	Nil	Nil
	Control Facilities		

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:

SI. Particulars	Current	Progressive						
ENVIRONMENT CAPITAL HEAD								
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)						
ENVIRO	NMENT REVENUE HEA	<u>D</u>						
1-Affore station	Nil	Rs. 0.30 Lacs						
		(upto 31.03.2021)						
2- Lagal expenses (consent	Rs 6.88. Lacs	Rs. 42.20 Lacs						
fees)		(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	Nil	From 2007-08						
statement		Rs 6,11,898.00						
		(Upto 31.03.21)						
5. Air Water Noise, quality	Rs. 26.26 Lacs	From 2007-08						
Monitoring		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.

SI.	Particulars	Amount
No.		(Rs)
1.	Air pollution control measure	-
2.	Water Cess	-
3.	Consent Fees	As per MPPCB Rate
		Notification
4.	Air, Water, Noise Quality Monitoring,	10,00,000.00
	etc.	
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

Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



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			999(RA 2019),	PM-10: IS-518	2 Part 23:200	06(RA 2017), PM2.5: U	SEPA Qı	uality Assurance
NAME OF AREA		PATHARKHERA			SAMPLING PLAN : LC	QR 47		
NAME OF PROJECT		SHOBHAPUR	UG				•	
SAMPLE DESCRIPTION Air sample								
SAMPLING METHOD : LSOP 4			-					

SAM OFFICE: PKSHUA1							
DATE/dd.maga.u.	PARAMETERS (24 hourly values in μg/m³)					ENVIRONMENT	
DATE(dd:mm:yy) OF SAMPLING		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS
FROM	TO	5	5	2	6	10	(Sky/Wind)
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 TH September 2000		600	300	-	120	120	

	SUBSTATION: PKSHUA2							
DATE/dd			PARAMETERS	(24 hourly v	alues in μg/m	3)	ENVIRONMENT	
DATE(dd:mm:yy) OF SAMPLING		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS	
FROM	то	5	5	2	6	10	(Sky/Wind)	
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 TH September 2000		600	300	-	120	120		

	SHOBHAPUR VILLAGE: PKSHUA3							
DATE/dd		PARAMETERS (24 hourly values in μg/m³)						
DATE(dd:mm:yy	DATE(dd:mm:yy) OF SAMPLING		PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS	
FROM	ТО	5	5	2	6	10	(Sky/Wind)	
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	
NAAQ	5, 2009	-	100	60	80	80		

SHOBHAPUR COLONY: PKSHUA4								
DATE/ III				PARAMETERS (24 hourly values in µg/m³)				
DATE(dd:mm:y	DATE(dd:mm:yy) OF SAMPLING		PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS	
FROM	то	5	5	2	6	10	(Sky/Wind)	
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	
NAAQ	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: PKSUW1							
DATE OF SAMPLE		ANALYSIS RESULTS					
COLLECTION	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 Authorised Signatory

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NOISE LEVEL MONITORING DATA

	FAN HOUSE:	PKSUN1		
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)		
MONTH	COLLECTION	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	
	ON (REGULATION AND TROL) RULES	75	70	

	COLONY(SHOBHAPUR):	PKSUN2		
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)		
MONTH	COLLECTION	DAY TIME	NIHT TIME	
	DETECTION LIMIT	20	20	
Sep-20	03.09.2020	42.9	41.3	
Sep-20	26.09.2020	40.9	39.1	
	ON (REGULATION AND ROL) RULES	55	45	

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ENVIRONMENTAL MONITORING REPORT

SHOBHAPUR UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MARCH 2021

Environment LaboratoryNABL 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

Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.		RIN/TR/MAR-21/81			DATE OF ISSUE		28.04.2021	
NAME OF CUSTOMER		GM(ENV.), W	GM(ENV.), WCL(HQ), NAGPUR					
CUSTOMER LETTER R	EFERENCE N	0.	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 23:2006i document volume-II (part-II)-2.12:2016, NO ₂ : IS 5182 Part-06:200					, ,,	-	,
NAME OF AREA	NAME OF AREA		PATHARKHERA			SAMPLING PLAN : LO	QR 47	
NAME OF PROJECT		SHOBHAPUR UG			_			
SAMPLE DESCRIPTION Air sample				_				
SAMPLING METHOD : LSOP 4			= "					

DATE (dd.mama.u.u	4 OF CAMPLING		PARAMETERS					
DATE(dd:mm:yy) OF SAMPLING		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	5	5	2	6	10	CONDITIONS (Sky/Willu)	
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 TH September 2000		600	300	-	120	120		

SUBSTATION: PKSHUA2								
DATE/dd:mm:u	A) OF CAMPLING	PARAMETERS (24 hourly values in μg/m³)						
DATE(dd:mm:yy) OF SAMPLING		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT	
FROM	то	5	5	2	6	10	CONDITIONS (Sky/Wind)	
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 TH September 2000		600	300	-	120	120		

SHOBHAPUR VILLAGE: PKSHUA3								
DATE/dd:mm:u	4) OE CAMBLING	PARAMETERS (24 hourly values in μg/m³)						
DATE(dd:mm:yy) OF SAMPLING		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT	
FROM	то	5	5	2	6	10	CONDITIONS (Sky/Wind)	
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	
NAAQ	S, 2009	-	100	60	80	80		

	SHOBHAPUR COLONY: PKSHUA4							
DATE/ddimmin	DATE(delegant a) OF CANADIANC			PARAMETERS (24 hourly values in μg/m³)				
DATE(dd:mm:yy) OF SAMPLING		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT	
FROM	то	5	5	2	6	10	CONDITIONS (Sky/Wind)	
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	
NAAQ	S, 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: PKSUW1						
DATE OF SAMPLE		ANALYS	ANALYSIS RESULTS			
COLLECTION	pН	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		
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)	
MONTH	COLLECTION	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	
NOISE POLLUTION (R	EGULATION AND CONTROL) RULES	75	70	

	COLONY(SHOBHAPUR):	PKSUN2		
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)	
MONTH	COLLECTION	DAY TIME	NIHT TIME	
	DETECTION LIMIT	20	20	
MAR'21	09.03.2021	44.7	43.9	
MAR'21	30.03.2021	44.6	43.2	
,	EGULATION AND CONTROL) RULES	55	45	

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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

		CONTENTS	
I	INTRO	DDUCTION	1-2
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	1.2	Need of Environmental Statement	
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Ш	BASIS	S FOR ENVIRONMENTAL STATEMENT	4
	3.1	Water Quality	
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	3.3	Mining	
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IV	FORM	1-V	5-12
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		Part-B	
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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 loses 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				
<u>4.</u> 5.	Water Consumption Raw Material Consumption :	375.145 KLD				
(a)	Explosive	1,63,201 kg				
(b)	Detonator	3,26,403 Nos.				
(c)	Electricity	44,87,000 kWh				
6.	Environmental Clearance Details	 EC Letter No:- J- 11015/ 53/2006/-IA. II(M) Date:- 02.08.2006 EC Letter No:- J- 11015/ 53/2006/-IA. II(M) Date:- 15.01.2021 				

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"

SI.	Particulars					
No.						
1.	Name and address of the Mine	Tawa II UG Mine				
(a)	Place	WCL, Pathakhera Area				
(b)	District	Baitul				
(c)	Telephone No.	07146-271363-271433				
(d)	FAX No.	-				
2	Industry category Primary-(STC	Category "A"				
	Code) Secondary-(STC Code)					
3	Approved Production Capacity	0.60 MTY				
4	Year of Establishment	2006				
5	Date of last Environmental	29 th May, 2020				
	Statement Report submitted					

PART - "B" WATER & RAW MATERIALS CONSUMPTION Table – (a) Water consumption on Usage Pattern

SI.No.	Particulars	
1.	Water Consumption (kl/day) :	
(a)	Process – Industrial :	
(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)	Domestic Purpose	
(i)	Domestic Use	35.145 KLD
(ii)	Plantation	NIL
	TOTAL	375.145 KLD

Table – (b) WATER CONSUMPTION AGAINST PRODUCTION (INCLUDING RECYCLED)

	Water Consumption		
	per unit of product		
	(including recycled)		
Name of the Product	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

		Consumption of Raw Material			
Name of the	Name of the	per Unit of Product			
Raw Material	Product	During the Previous Financial Year 2019-20		During the Current Financial Year 2020-21	
Explosive	Coal	0.4846	kg/t	0.5298	kg/t
Detonator	Coal	1.0004	No/t	1.0597	No/t
Electricity (Industrial)	Coal	10.7272	kWh/t	14.5681	kWh/t

PART - "C" POLLUTION GENERATED

(Parameters specified in the consent issued)

		Quantity of	Percentage
1.	Pollutants	Pollution	variation from
		Generated	prescribed
			standards with
			reasons
			Values of
(a)	Water	See Annexure-A2	parameters are
			within
			permissible
			limits.
			Levels of air
			pollutants are
(b)	Air	See Annexure-A1	within
			permissible
			limits.

PART - "D" HAZARDOUS WASTE

(As specified under Hazardous Waste/ Management & Handling Rules, 1989)

		Total Quantity (kg)		
1.	Hazardous Waste	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)
- Asphalting 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:

	ENVIRONMEN	T CAPITAL HEAD	
	ACCOUNT HEAD	CURRENT YEAR	PROGRESSIVE
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
	ENVIRONMENT	REVENUE HEAD	
1	Afforestation	Nil	Nil
2	Air, Water & Noise Monitoring (upto 31.03.2017)	Rs. 8.58 Lacs	From 2007-08 Rs 66.12 LACS (up 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 Compensator Afforestation) Upto 31.03.2021

H.2 Future Programme

- Regular pollution control measures will continue to be followed.

SI.	Particulars	Amount
No.		(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,	20,00,000.00
	etc.	
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

Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.			RIN/TR/SEPTE	EMBER-20/82		DATE OF ISSUE	30.10.2020	
NAME OF CUSTOMER			GM(ENV.), W	GM(ENV.), WCL(HQ), NAGPUR				
CUSTOMER LETTER REFERENCE NO.			WCL/HQ/ENV	//14-I/588-615	DATED: 15.0	6.20		
TEST REQUIRED SPM: IS 5182 Part-4::			999(RA 2019)	, PM-10: IS-518	2 Part 23:20	06(RA 2017), PM2.5: USEP.	A Quality Assurance	
NAME OF AREA			PATHARKHER	RA		SAMPLING PLAN: LQR 47		
NAME OF PROJECT			TAWA-II UG				 '	
SAMPLE DESCRIPTION Air sample								
SAMPLING METHOD : LSOP 4				<u>-</u> '				

	MANAGER OFFICE-TAWA II: PKT2UA1 PARAMETERS (24 hourly values in μg/m³)												
DATE(dd:mm:yy) OF SAMPLING)	ENVIRONMENT									
<i>57</i> 11 2 (dd) 7	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS							
FROM	FROM TO			2	6	10	(Sky/Wind)						
01.09.20	02.09.20	92	67	26	13	BDL	CLEAR CALM						
25.09.20	25.09.20 26.09.20		56	20	15	BDL	RAINY CALM						
STANDARDS FOR COAL MINE, GSR 742(E),		600	200		120	120							
dt. 25 TH September 2000		600	300	-	120	120							

	SAM OFFICE: PKTUA1												
DATE/dd.mam.u.u.) OF CAMPLING		PARAMETERS (24 hourly values in μg/m³)										
DATE(dd:mm:yy	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS							
FROM	FROM TO			2	6	10	(Sky/Wind)						
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),		600	200		120	120							
dt. 25 TH September 2000		600	300	-	120	120							

		N	MPEB COLONY:	PKTUA3					
DATE/dd	\ OF CANADI INC		PARAMETERS (24 hourly values in μg/m³)						
DATE(dd:mm:yy	DATE(dd:mm:yy) OF SAMPLING		PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS		
FROM	TO	5	5	2	6	10	(Sky/Wind)		
01.09.20	02.09.20	78	54	24	15	BDL	CLEAR CALM		
25.09.20	25.09.20 26.09.20			22	14	BDL	RAINY CALM		
NAAQS	-	100	60	80	80				

HIRA PALLA/BHAGAIKHAPA VILLAGE: PKT2UA4													
DATE/ dal	DATE(dd:mm:yy) OF SAMPLING PARAMETERS (24 hourly values in µg/m³)												
DATE(dd:mm:y	y) OF SAMPLING	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂				SO ₂	CONDITIONS						
FROM	TO	5	5	2	6	10	(Sky/Wind)						
01.09.20	02.09.20	66	49	27	12	BDL	CLEAR CALM						
25.09.20	25.09.20 26.09.20			21	13	BDL	RAINY CALM						
NAAQ	S, 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: PKTUW1										
DATE OF SAMPLE	ANALYSIS RESULTS									
COLLECTION	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.	5.5 - 9.0	100	250	10						
25/09/2000										

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NOISE LEVEL MONITORING DATA

FAN HOUSE:	PKTUN1			
DATE OF SAMPLE	NOISE LEVEL IN dB(A)			
COLLECTION	DAY TIME	NIGHT TIME		
DETECTION LIMIT	20	20		
03.09.2020	60.8	59.2		
26.09.2020	60.1	58.9		
EGULATION AND CONTROL) RULES	75	70		
	DATE OF SAMPLE COLLECTION DETECTION LIMIT 03.09.2020 26.09.2020 EGULATION AND CONTROL)	DATE OF SAMPLE NOISE LEVEL IN (COLLECTION DAY TIME DETECTION LIMIT 20 03.09.2020 60.8 26.09.2020 60.1 EGULATION AND CONTROL) 75		

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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

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR, JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY

Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.			RIN/TR/MAR-21/82 DATE OF ISSUE 28.04.2021						
NAME OF CUSTOMER GM(ENV.), WCL(HQ), NAGPU					AGPUR				
CUSTOMER LETTER REFERENCE NO. WCL/HQ				V/14-I/588-615 D	ATED: 15.0	6.20			
SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 P TEST REQUIRED guidance document volume-II (part-II)-2.12:2016, NO: 2017)						, ,,		. ,	
NAME OF AREA			PATHARKHER	RA		SAMPLING PLAN : LO	R 47		
NAME OF PROJECT			TAWA-II UG					_	
SAMPLE DESCRIPTION Air sample			!						
SAMPLING METHO	SAMPLING METHOD : LSOP 4								

	MANAGER OFFICE-TAWA II: PKT2UA1												
DATE(dd:mm:yy) OF SAMPLING		ENVIRONMENT										
	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS							
FROM	FROM TO			2	6	10	(Sky/Wind)						
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 COA	600	300	-	120	120								

			SAM OFFICE:	PKTUA1			
PARAMETERS (24 hourly values in µg/m³)				ENVIRONMENT			
DATE(dd:mm:yy) OF SAMPLING SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂			CONDITIONS				
FROM	TO	5	5	2	6	10	(Sky/Wind)
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 TH September 2000		600	300	-	120	120	

	MPEB COLONY: PKTUA3						
DATE(dd:mm:yy) OF SAMPLING PARAMETERS (24 hourly values in µg/m³)					ENVIRONMENT		
DATE(dd.IIIII.yy	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS	
FROM	TO	5	5	2	6	10	(Sky/Wind)
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	5, 2009	-	100	60	80	80	

HIRA PALLA/BHAGAIKHAPA VILLAGE: PKT2UA4							
PARAMETERS (24 hourly values in µg/m³)					ENVIRONMENT		
DATE(dd:mm:yy	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS	
FROM	TO	5	5	2	6	10	(Sky/Wind)
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
NAAQ	5, 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) 522 :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		ANALYSI	S RESULTS		
COLLECTION	pН	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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ENV. MONITORING REPORT- MAR' 2021

Analysed by

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NOISE LEVEL MONITORING DATA

	FAN HOUSE:	PKTUN1		
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)		
MONTH	COLLECTION	DAY TIME	NIGHT TIME	
	DETECTION LIMIT	20	20	
MAR'21	09.03.2021	70.7	69.4	
MAR'21 30.03.2021		71.9	71.1	
NOISE POLLUTION (R	EGULATION 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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	1.2 Need of Environmental Statement	
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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 loses 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 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 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 H	kWh
7.	Environmental Clearance Details	EC vide MoEF&CC Letter No. J-11015/30/89-IA.II(M) Dated 4 th 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"

SI.	Particulars	
No.		
1.	Name and address of the Mine	Tawa UG Mine
(a)	Place	WCL, Pathakhera Area
(b)	District	Baitul
(c)	Telephone No.	07146-290083
(d)	FAX No.	07146-270566
2	Industry category Primary-(STC	Category "A"
	Code) Secondary-(STC Code)	
3	Approved Production Capacity	0.80 MTY
4	Year of Establishment	1992
5	Date of last Environmental	29 th May, 2020
	Statement Report submitted	-

PART - "B" WATER & RAW MATERIALS CONSUMPTION

Table – (a) Water consumption on Usage Pattern

	TOTAL	133.13 KLD		
(ii)	Plantation	7 KLD		
(i)	Domestic Use	41.13 KLD		
(b)	Domestic Purpose			
(v)	CHP Beneficiation	-		
(iv)	Green Belt / Plantation	-		
(iii)	Workshop and others	-		
(ii)	Fire fighting	-		
(i)	Dust suppression	85.00 KLD		
(a)	Process – Industrial :			
1.	Water Consumption (kl/day) :			
0.	Faiticulais			
SI.N	Particulars			

Table – (b) WATER CONSUMPTION AGAINST PRODUCTION (INCLUDING RECYCLED)

	Water Consumption per unit of product (including recycled)		
Name of the Product	During the Previous Financial Year 2019-20	During the Current Financial Year 2020-21	
COAL	91.73 l/t of coal produced	110.22 l/t of coal produced	

RAW MATERIAL CONSUMPTION AGAINST PRODUCTION

Name of the	Name of the	Consumption of Raw Material per Unit of Product			
Raw Material	Product	During the Previous	During the Current		
		Financial Year 2019-20	Financial Year 2020-21		
Explosive	Coal	0. 4352 kg/t	0.4393 kg/t		
Detonator	Coal	1.0525 No/t	1.0280 No/t		
Electricity (Industrial)	Coal	16.2942 kWh/t	16.1336 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 mostly.

PART - "D" HAZARDOUS WASTE

(As specified under Hazardous Waste/ Management & Handling Rules, 1989)

	İ	Total Quantity (kg)					
1.	Hazardous Waste	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							
	ENVIRONMENT CAPITAL HEAD									
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)							
	ENVIR	RONMENT REVENUE HEAI	<u>0</u>							
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.

SI.	Particulars	Amount
No.		(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

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Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.		RIN/TR/SEPTI	EMBER-20/83		DATE OF ISSUE	30.10.2020	
NAME OF CUSTOMER			GM(ENV.), WCL(HQ), NAGPUR				
CUSTOMER LETTER REFERENCE NO.			WCL/HQ/EN\	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20			
TEST REQUIRED SPM: IS 5182 Part-4:1999(RA			999(RA 2019),	PM-10: IS-5182	2 Part 23:200	6(RA 2017), PM2.5: USEPA	Quality Assurance
NAME OF AREA			PATHERKHER	A		SAMPLING PLAN: LQR 47	
NAME OF PROJECT			TAWA UG				<u> </u>
SAMPLE DESCRIPTION Air sample				•)			
SAMPLING METHOD : LSOP 4				•			

SAM OFFICE: PKTUA1								
DATE(dd:mm:yy	PARAMETERS (24 hourly values in μg/m³)					ENVIRONMENT		
DATE(dd:IIIII.yy) OF SAIVII EING		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS	
FROM	TO	5	5	2	6	10	(Sky/Wind)	
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 TH September 2000		600	300	-	120	120		

MANAGER OFFICE-TAWA II: PKT2UA2								
DATE/-I-I) OF CAMPLING	PARAMETERS (24 hourly values in μg/m³)					ENVIRONMENT	
DATE(dd:mm:yy	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS		
FROM	TO	5	5	2	6	10	(Sky/Wind)	
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),		600	200		120	120		
dt. 25 TH September 2000		600	300	•	120	120		

MPEB COLONY: PKTUA3								
DATE/- -		PARAMETERS (24 hourly values in μg/m³)						
DATE(dd:mm:y	DATE(dd:mm:yy) OF SAMPLING		PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS	
FROM	TO	5	5	2	6	10	(Sky/Wind)	
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/BHAGAIKHAPA VILLAGE: PKT2UA4								
DATE/dd.ma.ma.u.u	PARAMETERS (24 hourly values in μg/m³)					ENVIRONMENT		
DATE(dd:mm:yy) OF SAMPLING		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS	
FROM	ТО	5	5	2	6	10	(Sky/Wind)	
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		



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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: PKTUW1								
DATE OF SAMPLE	ANALYSIS RESULTS pH TSS (in mg/l) COD(in mg/l) O & G(in mg/l)							
COLLECTION								
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.	5.5 - 9.0	100	250	10				
25/09/2000								

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ENV. MONITORING REPORT- SEPT' 2020

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NOISE LEVEL MONITORING DATA

	FAN HOUSE:	PKTUN1		
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)		
MONTH	COLLECTION	DAY TIME	NIGHT TIME	
	DETECTION LIMIT	20	20	
Sep-20	03.09.2020	58.1	57.3	
Sep-20	26.09.2020	57.6	56.2	
NOISE POLLUTION (R	NOISE POLLUTION (REGULATION AND CONTROL)		70	
	RULES	75	70	

COLONY(TAWA):		PKTUN2		
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)		
MONTH	COLLECTION	DAY TIME	NIGHT TIME	
	DETECTION LIMIT	20	20	
Sep-20	03.09.2020	41.7	40.2	
Sep-20	26.09.2020	40.3	39.7	
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45	

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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

Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.		RIN/TR/MAR-21/83 DATE OF ISSUE 28				28.04.2	021	
NAME OF CUSTOMER GM(ENV.), WCL(HQ), NAGPU			AGPUR					
CUSTOMER LETTER REFERENCE NO. WCL/HQ/E			WCL/HQ/ENV	//14-I/588-615	DATED: 15.06	5.20		
TEST REQUIRED			t-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance ent volume-II (part-II)-2.12:2016, NO $_2$: IS 5182 Part-06:2006(2017), SO $_2$:IS 5182 Part-2:2001 (RA					
NAME OF AREA		PATHERKHERA			SAMPLING PLAN : LO	QR 47		
NAME OF PROJECT TA		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/m³)					ENVIRONMENT
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS (Sky/Wind)
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 TH September 2000		600	300	-	120	120	

MANAGER OFFICE-TAWA II: PKT2UA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in μg/m³)					ENIVED ON MACNIT
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	5	5	2	6	10	CONDITIONS (Sky) Willu)
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 TH September 2000		600	300	-	120	120	

	MPEB COLONY: PKTUA3							
DATE/dd.mam.u.u		PARAMETERS	(24 hourly va	llues in μg/m³))	ENIVER CANADATA		
DATE(dd:mm:y)	DATE(dd:mm:yy) OF SAMPLING		PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	5	5	2	6	10	CONDITIONS (Sky) Willu)	
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	
NAAQ	S, 2009	-	100	60	80	80		

	HIRA PALLA/BHAGAIKHAPA VILLAGE: PKT2UA4							
DATE (dd.mam.u.u.) OF CANADI INC		PARAMETERS (24 hourly values in μg/m³)						
DATE(dd:mm:yy) OF SAMPLING		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT	
FROM	ТО	5	5	2	6	10	CONDITIONS (Sky/Wind)	
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	5, 2009	-	100	60	80	80		

bertimblime

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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 WATE	MINE WATER DISCHARGE: PKTUW1						
DATE OF SAMPLE		ANALYSI:	S RESULTS				
COLLECTION	рН	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

	FAN HOUSE:	PKTUN1	
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)
MONTH	COLLECTION	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
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

	COLONY(TAWA):	PKTUN2	
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
MONTH	COLLECTION	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
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45