

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

BALLARPUR OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL -2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 7
3	WATER QUALITY MONITORING DATA	8
4	NOISE LEVEL DATA	9

INTRODUCTION

Ballarpur OC is located in Chandrapur district of Maharashtra State. The project is administered by Ballarpur Area of Western Coalfields Limited. The Wardha River is the main drainage channel for the surrounding area. The climate of the area is tropical. The above-mentioned sources and the Township are also expected to contribute a lot in increasing the load of pollution in the area.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER OFFICE- BALLARPUR UG:	BBOA1
2	SUBSTATION:	BBOA2
3	PREMISES OF SUB AREA OFFICE:	BBOA3
4	FILTER PLANT COLONY:	BBOA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP/ COAL LOADING POINT:	BBOF1
2	WEIGHT BRIDGE:	BBOF2
3	RAILWAY SIDING:	BBOF3

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	BBOW1
2	ETP DISCHARGE:	BBOW2

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP:	BBON1
2	COLONY (BALLARPUR UG):	BBON2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	---

TSET REPORT NO.	RIN/TR/APRIL -20/A20	DATE OF ISSUE	23-05-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NO _x (06:2006), SO ₂ (02:2001)] & PM-2.5		
NAME OF AREA	BALLARPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	BALLARPUR OC	SAMPLING PLAN : LQR 47	

MANAGER OFFICE- BALLARPUR UG: BBOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
03-04-2020	54	10	6	<10
22-04-2020	68	12	7	<10
TLV	300	60	120	120

SUBSTATION: BBOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
05-04-2020	60	31	18	11
23-04-2020	58	32	18	<10
TLV	300	60	120	120

PREMISES OF SUB AREA OFFICE: BBOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-04-2020	67	24	14	<10
23-04-2020	78	46	25	13
TLV	300	60	120	120

FILTER PLANT COLONY: BBOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-04-2020	56	31	18	11
23-04-2020	68	34	19	<10
TLV	100	60	80	80



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

Test Report

Air quality monitoring data

MANAGER OFFICE- BALLARPUR UG: BBOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
03-04-2020	83
22-04-2020	124
TLV	600

SUBSTATION: BBOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
05-04-2020	84
23-04-2020	93
TLV	600

PREMISES OF SUB AREA OFFICE: BBOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-04-2020	128
23-04-2020	158
TLV	600

FILTER PLANT COLONY: BBOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-04-2020	102
23-04-2020	126
TLV	200



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
MANAGER (ENV.)

- | | |
|---|--|
| 1 | 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. |

FUGITIVE DUST MONITORING DATA

CHP/ COAL LOADING POINT: BBOF1		
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)	
	PM10	PM_{2.5}
DETECTION LIMIT	5	2
05-04-2020	143	28

WEIGHT BRIDGE: BBOF2		
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)	
	PM10	PM_{2.5}
DETECTION LIMIT	5	2
05-04-2020	163	31

RAILWAY SIDING: BBOF3		
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)	
	PM10	PM_{2.5}
DETECTION LIMIT	5	2
05-04-2020	174	34



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

FUGITIVE DUST MONITORING DATA

CHP/ COAL LOADING POINT: BBOF1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
05-04-2020	164

WEIGHT BRIDGE: BBOF2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
05-04-2020	182

RAILWAY SIDING: BBOF3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
05-04-2020	256



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	---

TSET REPORT NO.	RIN/TR/APRIL -20/W20	DATE OF ISSUE	23-05-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	BALLARPUR AREA	SAMPLING METHOD :	LSOP 5
NAME OF PROJECT	BALLARPUR OC	SAMPLING PLAN :	LQR 47

MINE WATER DISCHARGE: BBOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
15-04-2020	7.58	52	44	<2
23-04-2020	7.98	32	28	<2
TLV	5.5 - 9.0	100	250	10

ETP DISCHARGE: BBOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
15-04-2020	7.62	48	40	<2
23-04-2020	7.92	46	44	<2
TLV	5.5 - 9.0	100	250	10



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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: BALLARPUR AREA
NAME OF PROJECT: BALLARPUR OC

YEAR: 2020
MONTH: APRIL

CHP: BBON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	07-04-2020	54.7	54.6
APRIL 2020	21-04-2020	52.6	52.4
TLV		75	70

COLONY (BALLARPUR UG): BBON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	07-04-2020	43.6	43.4
APRIL 2020	21-04-2020	43.7	43.2
TLV		55	45

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

BALLARPUR UG

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL 2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

INTRODUCTION

Ballarpur - III & IV UG is located in Chandrapur district of Maharashtra state. The project is administered by Ballarpur Area of Western Coalfields Limited. The Wardha river is the main drainage channel for the surrounding area. The climate of the area is tropical. The above-mentioned sources and the Township are also expected to contribute a lot in increasing the load of pollution in the area.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER OFFICE- BALLARPUR UG:	BBUA1
2	SUBSTATION:	BBUA2
3	PREMISES OF SUB AREA OFFICE:	BBUA3
4	FILTER PLANT COLONY:	BBUA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	BBUW1

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE:	BBUN1
2	COLONY:	BBUN2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--


TSET REPORT NO.	RIN/TR/APRIL -20/A19	DATE OF ISSUE	23-05-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	BALLARPUR AREA	Sampling Method	: LSOP 4
NAME OF PROJECT	BALLARPUR UG	Sampling Plan	: LQR 47


MANAGER OFFICE- BALLARPUR UG: BBUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
03-04-2020	54	10	6	<10
22-04-2020	68	12	7	<10
TLV	300	60	120	120

SUBSTATION: BBUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
05-04-2020	60	31	18	11
23-04-2020	58	32	18	<10
TLV	300	60	120	120

PREMISES OF SUB AREA OFFICE: BBUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-04-2020	67	24	14	<10
23-04-2020	78	46	25	13
TLV	300	60	120	120

FILTER PLANT COLONY: BBUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-04-2020	56	31	18	11
23-04-2020	68	34	19	<10
TLV	100	60	80	80


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

1	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.

Test Report

Air quality monitoring data

MANAGER OFFICE- BALLARPUR UG: BBUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
03-04-2020	83
22-04-2020	124
TLV	600

SUBSTATION: BBUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
05-04-2020	84
23-04-2020	93
TLV	600

PREMISES OF SUB AREA OFFICE: BBUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-04-2020	128
23-04-2020	158
TLV	600

FILTER PLANT COLONY: BBUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-04-2020	102
23-04-2020	126
TLV	200




SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)

- 1 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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	---

TSET REPORT NO.	RIN/TR/APRIL -20/W19	DATE OF ISSUE	23-05-2020
NAME OF CUSTOMER	GM(ENV.)WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	BALLARPUR AREA	Sampling Method	:LSOP 5
NAME OF PROJECT	BALLARPUR UG	Sampling Method	:LQR 47

MINE WATER DISCHARGE: BBUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
03-04-2020	7.46	44	40	<2
24-04-2020	7.62	48	40	<2
TLV	5.5 - 9.0	100	250	10


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

1	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: BALLARPUR AREA
NAME OF PROJECT: BALLARPUR UG

YEAR: 2020
MONTH: APRIL

FAN HOUSE: BBUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	07-04-2020	72.7	72.5
APRIL 2020	21-04-2020	72.6	72.5
TLV		75	70

COLONY: BBUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	07-04-2020	43.6	43.4
APRIL 2020	21-04-2020	43.7	43.2
TLV		55	45

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

GOURI- I& II (A) OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL 2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 7
3	WATER QUALITY MONITORING DATA	8
4	NOISE LEVEL DATA	9

INTRODUCTION

Gouri I & II (A) OC is located in Chandrapur district of Maharashtra state. The project is administered by Ballarpur Area of Western Coalfields Limited. The Wardha river is the main drainage channel for the surrounding area. The climate of the area is tropical. Besides other coal mines, there is no other major industries nearby the project area. Vehicular traffic and local coal burning for domestic purposes are other source of pollution

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER OFFICE- GOURI - I O/C:	BGOA1
2	SAM OFFICE GOURI- SUB AREA:	BGOA2
3	GOURI COLONY/ FILTER PLANT:	BGOA3
4	GOURI VILLAGE:	BGOF2

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP:	BGOF1
2	WEIGHT BRIDGE:	BGOF2

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	BGOW1
2	ETP DISCHARGE	BGOW2

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP:	BGON1
2	GOURI COLONY:	BGON2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--

TSET REPORT NO.	RIN/TR/APRIL -20/A21	DATE OF ISSUE	23-05-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	BALLARPUR AREA	Sampling Method :	LSOP 4
NAME OF PROJECT	GOURI- I & II (A) OC	Sampling Plan :	LQR 47


MANAGER OFFICE- GOURI - I O/C: BGOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-04-2020	62	36	21	10
24-04-2020	45	26	14	<10
TLV	300	60	120	120

SAM OFFICE GOURI- SUB AREA: BGOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-04-2020	42	33	19	10
24-04-2020	48	36	20	10
TLV	300	60	120	120

GOURI COLONY/ FILTER PLANT: BGOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
01-04-2020	75	35	20	10
20-04-2020	63	23	13	<10
TLV	100	60	80	80

GOURI VILLAGE: BGOF2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-04-2020	32	24	14	<10
24-04-2020	48	27	15	<10
TLV	100	60	80	80


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

1	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.

Test Report

Air quality monitoring data

MANAGER OFFICE- GOURI - I O/C: BGOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-04-2020	87
24-04-2020	94
TLV	600

SAM OFFICE GOURI- SUB AREA: BGOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-04-2020	65
24-04-2020	71
TLV	600

GOURI COLONY/ FILTER PLANT: BGOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
01-04-2020	108
20-04-2020	98
TLV	200

GOURI VILLAGE: BGOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-04-2020	93
24-04-2020	98
TLV	200



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
MANAGER (ENV.)

- | | |
|---|--|
| 1 | 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. |

FUGITIVE DUST MONITORING DATA

CHP: BGOF1		
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)	
	PM10	PM_{2.5}
DETECTION LIMIT	5	2
11-04-2020	182	36

WEIGHT BRIDGE: BGOF2		
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)	
	PM10	PM_{2.5}
DETECTION LIMIT	5	2
11-04-2020	154	32

J. Shan

SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

FUGITIVE DUST MONITORING DATA

CHP: BGOF1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-04-2020	263

WEIGHT BRIDGE: BGOF2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-04-2020	218


J. Shan

SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |


Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	--

TSET REPORT NO.	RIN/APRIL -20/W21	DATE OF ISSUE	23-05-2020
NAME OF CUSTOMER	GM(ENV.),WCL, NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	BALLARPUR AREA	Sampling Method :	LSOP 5
NAME OF PROJECT	GOURI- I& II (A) OC	Sampling Plan :	LQR 47

MINE WATER DISCHARGE: BGOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
12-04-2020	7.62	48	40	<2
24-04-2020	7.36	38	32	<2
TLV	5.5 - 9.0	100	250	10

ETP DISCHARGE BGOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
12-04-2020	7.72	42	36	<2
24-04-2020	7.7	42	36	<2
TLV	5.5 - 9.0	100	250	10


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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: BALLARPUR AREA YEAR: 2020
NAME OF PROJECT: GOURI- I& II (A) OC MONTH: APRIL

CHP: BGON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	06-04-2020	63.6	63.2
APRIL 2020	27-04-2020	63.7	63.5
TLV		75	70

GOURI COLONY: BGON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	06-04-2020	44.4	43.6
APRIL 2020	21-04-2020	43.6	43.4
TLV		55	45

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

GOURI DEEP OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL 2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

INTRODUCTION

Gouri Deep OC is located in Chandrapur district of Maharashtra state. The project is administered by Ballarpur Area of Western Coalfields Limited. The Wardha river is the main drainage channel for the surrounding area. The climate of the area is tropical.

Sampling Location:**Ambient Air Quality Monitoring locations:**

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER OFFICE:	BGDO1
2	MUTRA VILLAGE:	BGDO2
3	GOYEGAON VILLAGE:	BGDO3
4	ANTARGAON VILLAGE:	BGDO4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	BGDW1
2	ETP (WORKSHOP):	BGDW2

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER OFFICE:	BGDN1

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--

TSET REPORT NO.	RIN/TR/APRIL -20/A23	DATE OF ISSUE	23-05-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NO _x (06:2006), SO ₂ (02:2001)] &PM-2.5		
NAME OF AREA	BALLARPUR AREA	Sampling Method	: LSOP 4
NAME OF PROJECT	GOURI DEEP OC	Sampling Plan	: LQR 47


MANAGER OFFICE: BGD01				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
02-04-2020	46	18	10	<10
26-04-2020	38	16	9	<10
TLV	300	60	120	120

MUTRA VILLAGE: BGD02				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
02-04-2020	43	18	10	<10
26-04-2020	42	20	11	<10
TLV	100	60	80	80

GOYEGAON VILLAGE: BGD03				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
01-04-2020	29	21	12	<10
20-04-2020	31	22	12	<10
TLV	100	60	80	80

ANTARGAON VILLAGE: BGD04				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
01-04-2020	74	18	10	<10
20-04-2020	81	20	11	<10
TLV	100	60	80	80


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

Test Report

Air quality monitoring data

MANAGER OFFICE: BGDO1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
02-04-2020	97
26-04-2020	112
TLV	600

MUTRA VILLAGE: BGDO2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
02-04-2020	71
26-04-2020	80
TLV	200

GOYEGAON VILLAGE: BGDO3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
01-04-2020	64
20-04-2020	60
TLV	200

ANTARGAON VILLAGE: BGDO4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
01-04-2020	107
20-04-2020	116
TLV	200



SCIENTIFIC ASSISTANT

DEEPANSHU SAHU
MANAGER (ENV.)

- 1 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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	---

TSET REPORT NO.	RIN/TR/APRIL -20/W23	DATE OF ISSUE	23-05-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	BALLARPUR AREA	Sampling Method :	LSOP 5
NAME OF PROJECT	GOURI DEEP OC	Sampling Plan :	LQR47

MINE WATER DISCHARGE: BGDW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
02-04-2020	7.72	42	36	<2
26-04-2020	7.38	34	32	<2
TLV	5.5 - 9.0	100	250	10

ETP (WORKSHOP): BGDW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
02-04-2020	7.36	34	28	<2
26-04-2020	7.42	38	32	<2
TLV	5.5 - 9.0	100	250	10


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

LEVEL DATA

NAME OF AREA: BALLARPUR AREA **YEAR: 2020**
NAME OF PROJECT: GOURI DEEP OC **MONTH: APRIL**

MANAGER OFFICE: BGDN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	06-04-2020	53.6	53.4
APRIL 2020	27-04-2020	53.5	52.6
TLV		75	70

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

NEW DHOPTALA OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL -2020

Environment Laboratory
NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 7
4	NOISE LEVEL DATA	8

INTRODUCTION

New Dhoptala OC is located in Chandrapur district of Maharashtra state. The project is administered by Ballarpur Area of Western Coalfields Limited. The Wardha river is the main drainage channel for the surrounding area. The climate of the area is tropical.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	SAM OFFICE- DHUPTALA SUB AREA:	BNDOA1
2	MANAGER OFFICE- DHOPTALA OC:	BNDOA2
3	SASTI COLONY:	BNDOA3
4	SASTI VILLAGE:	BNDOA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP:	BNDOF1
2	WEIGHT BRIDGE:	BNDOF2

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP:	BNDN1
2	SASTI COLONY:	BNDN2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	---

TSET REPORT NO.	RIN/TR/APRIL -20/A18	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NO _x (06:2006), SO ₂ (02:2001)] & PM-2.5		
NAME OF AREA	BALLARPUR AREA	Sampling Method :	LSOP 4
NAME OF PROJECT	NEW DHOPTALA OC	Sampling Plan :	LQR 47


SAM OFFICE- DHOPTALA SUB AREA: BNDOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
03-04-2020	71	27	16	<10
20-04-2020	84	32	18	<10
TLV	300	60	120	120

MANAGER OFFICE- DHOPTALA OC: BNDOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-04-2020	41	24	14	<10
22-04-2020	44	26	14	<10
TLV	300	60	120	120

SASTI COLONY: BNDOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
10-04-2020	32	25	15	<10
22-04-2020	45	34	19	<10
TLV	100	60	80	80

SASTI VILLAGE: BNDOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
01-04-2020	42	32	19	11
20-04-2020	44	36	20	10
TLV	100	60	80	80


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | This Report refers to the values related to the items tested as received |
| 2 | This Report cannot be reproduced in part or full without written permission of the management. |

FUGITIVE DUST MONITORING DATA

CHP: BNDOF1		
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)	
	PM10	PM_{2.5}
DETECTION LIMIT	5	2
04-04-2020	102	35

WEIGHT BRIDGE: BNDOF2		
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)	
	PM10	PM_{2.5}
DETECTION LIMIT	5	2
04-04-2020	133	41

J. Shary

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

Test Report

Air quality monitoring data

SAM OFFICE- DHUPTALA SUB AREA: BNDOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
03-04-2020	115
20-04-2020	128
TLV	600

MANAGER OFFICE- DHOPTALA OC: BNDOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-04-2020	64
22-04-2020	82
TLV	600

SASTI COLONY: BNDOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
10-04-2020	66
22-04-2020	84
TLV	200

SASTI VILLAGE: BNDOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
01-04-2020	78
20-04-2020	88
TLV	200



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
MANAGER (ENV.)

- | | |
|---|--|
| 1 | 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. |

FUGITIVE DUST MONITORING DATA

CHP: BND0F1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
04-04-2020	175

WEIGHT BRIDGE: BND0F2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
04-04-2020	218

J. Shany

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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: BALLARPUR AREA YEAR: 2020
NAME OF PROJECT: NEW DHOPTALA OC MONTH: APRIL

CHP: BNDN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	07-04-2020	63.6	63.2
APRIL 2020	21-04-2020	57.6	57.4
TLV		75	70

SASTI COLONY: BNDN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	07-04-2020	44.7	43.6
APRIL 2020	21-04-2020	42.7	42.6
TLV		55	45

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

PAUNI II OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL 2020

Environment Laboratory
NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

INTRODUCTION

Pauni-II OC is located in Chandrapur district of Maharashtra state. The project is administered by Ballarpur Area of Western Coalfields Limited. The Wardha river is the main drainage channel for the surrounding area. The climate of the area is tropical.

Sampling Location:**Ambient Air Quality Monitoring locations:**

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE OFFICE:	BP2OA1
2	SUBSTATION:	BP2OA2
3	SAKHARI VILLAGE:	BP2OA3
4	WORKSHOP:	BP2OA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE	BP2OW1

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER OFFICE:	BP2ON1

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--

TSET REPORT NO.	RIN/TR/APRIL -20/A24	DATE OF ISSUE	23-05-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	BALLARPUR AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	PAUNI II OC	SAMPLING PLAN	LQR 47


MINE OFFICE: BP20A1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-04-2020	65	36	21	10
25-04-2020	72	42	23	12
TLV	300	60	120	120

SUBSTATION: BP20A2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-04-2020	45	36	21	10
25-04-2020	32	27	15	<10
TLV	300	60	120	120

SAKHARI VILLAGE: BP20A3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-04-2020	50	28	16	<10
24-04-2020	57	32	18	<10
TLV	100	60	80	80

WORKSHOP: BP20A4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-04-2020	27	16	9	<10
25-04-2020	32	17	9	<10
TLV	300	60	120	120


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

Test Report
Air quality monitoring data

MINE OFFICE: BP20A1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-04-2020	92
25-04-2020	114
TLV	600

SUBSTATION: BP20A2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-04-2020	85
25-04-2020	76
TLV	600

SAKHARI VILLAGE: BP20A3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-04-2020	89
24-04-2020	112
TLV	200


WORKSHOP: BP20A4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-04-2020	75
25-04-2020	88
TLV	200



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
MANAGER (ENV.)


- | | |
|---|--|
| 1 | 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. |

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	---

TSET REPORT NO.	RIN/TR/APRIL -20/W24	DATE OF ISSUE	23-05-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	BALLARPUR AREA	SAMPLING METHOD :	LSOP 5
NAME OF PROJECT	PAUNI II OC	SAMPLING PLAN :	LQR 47

MINE WATER DISCHARGE BP2OW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
14-04-2020	7.32	38	36	<2
25-04-2020	7.62	44	40	<2
TLV	5.5 - 9.0	100	250	10


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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: BALLARPUR AREA **YEAR: 2020**
NAME OF PROJECT: PAUNI II OC **MONTH: APRIL**

MANAGER OFFICE: BP2ON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	06-04-2020	52.7	52.5
APRIL 2020	27-04-2020	52.7	52.6
TLV		75	70

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

PAUNI O/C

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL -2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 7
3	WATER QUALITY MONITORING DATA	8
4	NOISE LEVEL DATA	9

INTRODUCTION

Pauni OC is located in Chandrapur district of Maharashtra state. The project is administered by Ballarpur Area of Western Coalfields Limited. The Wardha river is the main drainage channel for the surrounding area. The climate of the area is tropical.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER OFFICE- PAUNI O/C:	BPOA1
2	WORKSHOP- PAUNI O/C:	BPOA2
3	PAUNI VILLAGE:	BPOA3
4	GOURI VILLAGE:	BPOA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	WEIGHT BRIDGE:	BPOF1

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	BPOW1
2	ETP DISCHARGE:	BPOW2

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER OFFICE:	BPON1
2	GOURI COLONY:	BPON2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--

TSET REPORT NO.	RIN/TR/APRIL -20/A22	DATE OF ISSUE	23-05-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	BALLARPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	PAUNI O/C	SAMPLING PLAN : LQR 47	


MANAGER OFFICE- PAUNI O/C: BPOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-04-2020	62	22	13	<10
26-04-2020	68	24	13	<10
TLV	300	60	120	120

WORKSHOP- PAUNI O/C: BPOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-04-2020	27	16	9	<10
25-04-2020	32	17	9	<10
TLV	300	60	120	120

PAUNI VILLAGE: BPOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-04-2020	41	20	11	<10
25-04-2020	52	21	12	<10
TLV	100	60	80	80

GOURI VILLAGE: BPOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-04-2020	32	24	14	<10
24-04-2020	48	27	15	<10
TLV	100	60	80	80


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

FUGITIVE DUST MONITORING DATA

WEIGHT BRIDGE: BPOF1		
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)	
	PM10	PM _{2.5}
DETECTION LIMIT	5	2
12-04-2020	152	38



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

Test Report

Air quality monitoring data

MANAGER OFFICE- PAUNI O/C: BPOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-04-2020	87
26-04-2020	91
TLV	600

WORKSHOP- PAUNI O/C: BPOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-04-2020	75
25-04-2020	88
TLV	600

PAUNI VILLAGE: BPOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-04-2020	110
25-04-2020	112
TLV	200

GOURI VILLAGE: BPOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-04-2020	93
24-04-2020	98
TLV	200



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)

- 1 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.

FUGITIVE DUST MONITORING DATA

WEIGHT BRIDGE: BPOF1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-04-2020	223



SCIENTIFIC ASSISTANT

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |


Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	--

TSET REPORT NO.	RIN/TR/APRIL -20/W22	DATE OF ISSUE	23-05-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	BALLARPUR AREA	SAMPLING METHOD :	LSOP 5
NAME OF PROJECT	PAUNI O/C	SAMPLING PLAN :	LQR 47

MINE WATER DISCHARGE: BPOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
14-04-2020	7.36	44	40	<2
26-04-2020	7.38	48	44	<2
TLV	5.5 - 9.0	100	250	10

ETP DISCHARGE: BPOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
14-04-2020	7.42	36	42	<2
26-04-2020	7.3	36	32	<2
TLV	5.5 - 9.0	100	250	10


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

1	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: BALLARPUR AREA YEAR: 2020
NAME OF PROJECT: PAUNI O/C MONTH: APRIL

MANAGER OFFICE: BPON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	06-04-2020	53.7	52.7
APRIL 2020	27-04-2020	52.6	52.4
TLV		75	70

GOURI COLONY: BPON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	06-04-2020	44.4	43.6
APRIL 2020	21-04-2020	43.6	43.4
TLV		55	45

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

SASTI OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



APRIL 2020

Environment Laboratory
NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 7
3	WATER QUALITY MONITORING DATA	8
4	NOISE LEVEL DATA	9

INTRODUCTION

The Silewara UG project is located in the Nagpur district of Maharashtra state and is administered by Nagpur Area of Western Coalfields Limited. The drainage of the area is controlled by Kolar river to the south and Kanhan river in the north. The climate of the area is tropical. The above-mentioned industries are also expected to contribute in increasing the pollution load of the area.

Sampling Location:**Ambient Air Quality Monitoring locations:**

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	SAM OFFICE-SASTI OC:	BSOA1
2	AREA STORE:	BSOA2
3	GOURI COLONY FILTER PLANT:	BSOA3
4	SASTI VILLAGE:	BSOA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MAIN CHP:	BSOF1
2	WEIGHT BRIDGE:	BSOF2
3	RAILWAY SIDING:	BSOF3

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	BSOW1
2	ETP DISCHARGE:	BSOW2
3	STP (DOMESTIC EFFLUENT) TREATED	BSOW3

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP:	BSON1
2	G. COLONY:	BSON2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--

TSET REPORT NO.	RIN/TR/APRIL -20/A16	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	BALLARPUR AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	SASTI OC	SAMPLING PLAN	LQR 47


SAM OFFICE-SASTI OC: BSOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-04-2020	54	32	20	10
22-04-2020	64	37	20	10
TLV	300	60	120	120

AREA STORE: BSOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
10-04-2020	54	33	19	10
22-04-2020	66	28	15	<10
TLV	300	60	120	120

GOURI COLONY FILTER PLANT: BSOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
01-04-2020	75	35	20	10
20-04-2020	63	23	13	<10
TLV	100	60	80	80

SASTI VILLAGE: BSOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
01-04-2020	42	32	19	11
20-04-2020	44	36	20	10
TLV	100	60	80	80


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

FUGITIVE DUST MONITORING DATA

MAIN CHP: BSOF1		
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)	
	PM10	PM_{2.5}
DETECTION LIMIT	5	2
10-04-2020	225	51

WEIGHT BRIDGE: BSOF2		
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)	
	PM10	PM_{2.5}
DETECTION LIMIT	5	2
10-04-2020	252	56



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

Test Report

Air quality monitoring data

SAM OFFICE-SASTI OC: BSOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-04-2020	91
22-04-2020	98
TLV	600

AREA STORE: BSOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
10-04-2020	82
22-04-2020	95
TLV	600

GOURI COLONY FILTER PLANT: BSOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
01-04-2020	108
20-04-2020	98
TLV	200

SASTI VILLAGE: BSOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
01-04-2020	78
20-04-2020	88
TLV	200



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
MANAGER (ENV.)

- | | |
|---|--|
| 1 | 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. |

FUGITIVE DUST MONITORING DATA

MAIN CHP: BSOF1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
10-04-2020	362

WEIGHT BRIDGE: BSOF2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
10-04-2020	387




SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	--


TSET REPORT NO.	RIN/TR/APRIL-20/W16	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	BALLARPUR AREA	SAMPLING METHOD	LSOP 5
NAME OF PROJECT	SASTI OC	SAMPLING PLAN	LQR 47

MINE WATER DISCHARGE: BSOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
11-04-2020	7.32	30	28	<2
23-04-2020	7.54	42	36	<2
TLV	5.5 - 9.0	100	250	10

ETP DISCHARGE: BSOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
01-04-2020	7.68	34	36	<2
20-04-2020	7.46	36	32	<2
TLV	5.5 - 9.0	100	250	10

STP (DOMESTIC EFFLUENT) TREATED BSOW3		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS(in mg/l)	BOD(in mg/l)
DETECTION LIMIT	10	2
11-04-2020	64	10.8
23-04-2020	72	11.4
TLV	100	30


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

1	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: BALLARPUR AREA
NAME OF PROJECT: SASTI OC

YEAR: 2020
MONTH: APRIL

CHP: BSON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	06-04-2020	64.2	63.7
APRIL 2020	21-04-2020	64.4	63.7
TLV		75	70

G. COLONY: BSON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	06-04-2020	44.4	43.6
APRIL 2020	21-04-2020	43.6	43.4
TLV		55	45

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

SASTI UG

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL 2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

INTRODUCTION

Sasti UG is located in Chandrapur district of Maharashtra state. The project is administered by Ballarpur Area of Western Coalfields Limited. The Wardha river is the main drainage channel for the surrounding area. The climate of the area is tropical.

Sampling Location:**Ambient Air Quality Monitoring locations:**

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	SAM OFFICE- DHUPTALA SUB AREA:	BSUA1
2	MANAGER OFFICE- DHOPTALA OC:	BSUA2
3	SASTI COLONY:	BSUA3
4	SASTI VILLAGE:	BSUA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MAIN CHP:	BSUF1

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	BSUW1

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE:	BSUN1
2	SASTI COLONY:	BSUN2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	---

TSET REPORT NO.	RIN/TR/APRIL-20/A17	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 30.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	BALLARPUR AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	SASTI UG	SAMPLING PLAN	LQR 47


SAM OFFICE- DHUPTALA SUB AREA: BSUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
03-04-2020	71	27	16	<10
20-04-2020	84	32	18	<10
TLV	300	60	120	120

MANAGER OFFICE- DHOPTALA OC: BSUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-04-2020	41	24	14	<10
22-04-2020	44	26	14	<10
TLV	300	60	120	120

SASTI COLONY: BSUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
10-04-2020	32	25	15	<10
22-04-2020	45	34	19	<10
TLV	100	60	80	80

SASTI VILLAGE: BSUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
01-04-2020	42	32	19	11
20-04-2020	44	36	20	10
TLV	100	60	80	80


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

1	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.

Test Report

Air quality monitoring data

SAM OFFICE- DHUPTALA SUB AREA: BSUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
03-04-2020	115
20-04-2020	128
TLV	600

MANAGER OFFICE- DHOPTALA OC: BSUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-04-2020	64
22-04-2020	82
TLV	600

SASTI COLONY: BSUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
10-04-2020	66
22-04-2020	84
TLV	200


SASTI VILLAGE: BSUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
01-04-2020	78
20-04-2020	88
TLV	200



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
MANAGER (ENV.)


- | | |
|---|--|
| 1 | 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. |

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	--

TSET REPORT NO.	RIN/TR/APRIL -20/W17	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 30.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	BALLARPUR AREA	SAMPLING METHOD :	LSOP 5
NAME OF PROJECT	SASTI UG	SAMPLING PLAN :	LQR 47

MINE WATER DISCHARGE: BSUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
10-04-2020	7.41	34	32	<2
24-04-2020	7.48	44	36	<2
TLV	5.5 - 9.0	100	250	10


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

1	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: BALLARPUR AREA
NAME OF PROJECT: SASTI UG

YEAR: 2020
MONTH: APRIL

FAN HOUSE: BSUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	07-04-2020	72.6	72.4
APRIL 2020	21-04-2020	72.5	72.3
TLV		75	70

SASTI COLONY: BSUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	07-04-2020	44.7	43.6
APRIL 2020	21-04-2020	42.7	42.6
TLV		55	45

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

BHATADI OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



APRIL 2020

Environment Laboratory
NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

INTRODUCTION

Bhatadi Opencast Project is located in Chandrapur district of Maharashtra State and is administered by Chandrapur Area of Western Coalfields Limited. The climate of the area is dry to moist tropical. The above-mentioned industries are also likely to contribute in increasing the pollution load of the area

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	BHATADI SECURITY POST:	CBOA1
2	BHATADI MANAGER OFFICE:	CBOA2
3	BHATADI VILLAGE:	CBOA3
4	VADHOLI VILLAGE:	CBOA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP/MGR LOADING POINT:	CBOF1
2	WEIGHT BRIDGE:	CBOF2
3	WORKSHOP	CBOF3

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	CBOW1
2	ETP DISCHARGE:	CBOW2
3	STP (DOMESTIC EFFULENT) TREATED:	CBOW3

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NEAR CHP:	CBON1
2	COLONY:	CBON2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	---

TSET REPORT NO.	RIN/TR/APRIL-20/A34	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WWCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD: LSOP 4	
NAME OF PROJECT	BHATADI OC	SAMPLING PLAN : LQR 47	

BHATADI SECURITY POST: CBOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-04-2020	56	35	20	10
25-04-2020	45	28	15	<10
TLV	300	60	120	120

BHATADI MANAGER OFFICE: CBOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-04-2020	76	28	16	<10
25-04-2020	85	32	18	<10
TLV	300	60	120	120

BHATADI VILLAGE: CBOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-04-2020	52	26	15	<10
25-04-2020	49	25	14	<10
TLV	100	60	80	80

VADHOLI VILLAGE: CBOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-04-2020	73	25	14	<10
26-04-2020	30	12	7	<10
TLV	100	60	80	80


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

Test Report

Air quality monitoring data

BHATADI SECURITY POST: CBOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-04-2020	98
25-04-2020	81
TLV	600

BHATADI MANAGER OFFICE: CBOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-04-2020	148
25-04-2020	137
TLV	600

BHATADI VILLAGE: CBOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-04-2020	77
25-04-2020	74
TLV	200

VADHOLI VILLAGE: CBOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-04-2020	100
26-04-2020	55
TLV	200


R. Annapurna

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
MANAGER (ENV.)

- | | |
|---|--|
| 1 | 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. |

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	---


TSET REPORT NO.	RIN/TR/APRIL -20/W34	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WWCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD :	LSOP 5
NAME OF PROJECT	BHATADI OC	SAMPLING PLAN :	LQR 47

MINE WATER DISCHARGE: CBOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
11-04-2020	7.89	28	36	<2
25-04-2020	7.28	38	32	<2
TLV	5.5 - 9.0	100	250	10

ETP DISCHARGE: CBOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
11-04-2020	7.6	28	40	<2
25-04-2020	7.52	32	36	<2
TLV	5.5 - 9.0	100	250	10

STP (DOMESTIC EFFULENT) TREATED: CBOW3		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS(in mg/l)	BOD(in mg/l)
DETECTION LIMIT	10	2
11-04-2020	32	10
25-04-2020	38	12
TLV	100	30


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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: CHANDRAPUR AREA YEAR: 2020
NAME OF PROJECT: BHATADI OC MONTH: APRIL

NEAR CHP: CBON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
April 2020	06-04-20	69.7	69.5
April 2020	24-04-20	68.9	68.7
TLV		75	70

COLONY: CBON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
April 2020	06-04-20	43.8	43.2
April 2020	24-04-20	42.9	41.4
TLV		55	45

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

CRC UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL 2020



Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY



INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

INTRODUCTION

Chanda-Rayatwari Colliery is located in the Chandrapur district of Maharashtra State and is administered by Chandrapur Area of Western Coalfields Limited. The climate of the area is dry to moist tropical. The above-mentioned industries are also likely to contribute in increasing the pollution load of the area.

Sampling Location:**Ambient Air Quality Monitoring locations:**

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER'S OFFICE MAHAKALI UG:	CCRUA1
2	CRC SUBSTATION/ FILTER PLANT:	CCRUA2
3	JATWARA MILK SCHEME:	CCRUA3
4	COLONY:	CCRUA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE :	CCR UW1

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP:	CCR UN1
2	COLONY:	CCR UN2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	---

TSET REPORT NO.	RIN/TR/APRIL -20/A32	DATE OF ISSUE	23-05-2020
NAME OF CUSTOMER	GM(Env), WCL(HQ) NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	CRC UG	SAMPLING PLAN : LQR 47	

MANAGER'S OFFICE MAHAKALI UG: CCRUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
10-04-2020	64	22	13	<10
24-04-2020	58	20	11	<10
TLV	300	60	120	120

CRC SUBSTATION/ FILTER PLANT: CCRUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
10-04-2020	77	26	15	<10
24-04-2020	85	30	17	<10
TLV	300	60	120	120

JATWARA MILK SCHEME: CCRUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
10-04-2020	50	20	11	<10
24-04-2020	63	25	14	<10
TLV	300	60	120	120

COLONY: CCRUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-04-2020	66	23	13	<10
25-04-2020	57	21	12	<10
TLV	100	60	80	80



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

Test Report

Air quality monitoring data

MANAGER'S OFFICE MAHAKALI UG: CCRUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
10-04-2020	73
24-04-2020	71
TLV	600

CRC SUBSTATION/ FILTER PLANT: CCRUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
10-04-2020	94
24-04-2020	132
TLV	600

JATWARA MILK SCHEME: CCRUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
10-04-2020	89
24-04-2020	106
TLV	600

COLONY: CCRUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-04-2020	104
25-04-2020	82
TLV	200



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
MANAGER (ENV.)


- | | |
|---|--|
| 1 | 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. |

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	---

TSET REPORT NO.	RIN/TR/APRIL -20/W32	DATE OF ISSUE	23-05-2020
NAME OF CUSTOMER	GM(Env.), WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	CRC UG	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE : CCRUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
10-04-2020	7.26	28	36	<2
24-04-2020	6.9	22	32	<2
TLV	5.5 - 9.0	100	250	10


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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: CHANDRAPUR AREA
NAME OF PROJECT: CRC UG

YEAR: 2020
MONTH: APRIL

CHP: CCRUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	06-04-2020	64.7	64.4
APRIL 2020	24-04-2020	65.5	65.3
TLV		75	70

COLONY: CCRUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	06-04-2020	41.6	40.9
APRIL 2020	24-04-2020	43.8	42.6
TLV		55	45

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

DRC UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL 2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

INTRODUCTION

Durgapur-Rayatwari Underground Project is located in Chandrapur District of Maharashtra State and is administered by Chandrapur Area of Western Coalfields Limited. The drainage of the area is controlled by Erai River, which flows from North to South. The climate of the area is dry to moist tropica. The above-mentioned industries are also likely to contribute in increasing the pollution load of the area.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	PIT OFFICE-DRC- III UG:	CDRUA1
2	NEHRU NAGAR/ SUBSTATION:	CDRUA2
3	DRC- V COLONY:	CDRUA3
4	PIT OFFICE DRC-IV:	CDRUA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE :	CDRUW1

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	PIT OFFICE DRC- III UG:	CDRUN1
2	DURGAPUR COLONY:	CDRUN2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	---

TSET REPORT NO.	RIN/TR/APRIL-20/A33	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	DRC UG	SAMPLING PLAN : LQR 47	

PIT OFFICE-DRC- III UG: CDRUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-04-2020	42	24	14	<10
23-04-2020	41	19	10	<10
TLV	300	60	120	120

NEHRU NAGAR/ SUBSTATION: CDRUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
10-04-2020	68	21	12	<10
24-04-2020	72	26	14	<10
TLV	300	60	120	120

DRC- V COLONY: CDRUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
09-04-2020	41	27	15	<10
23-04-2020	50	26	14	<10
TLV	100	60	80	80

PIT OFFICE DRC-IV: CDRUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
09-04-2020	79	32	18	<10
23-04-2020	77	28	15	<10
TLV	100	60	80	80



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

Test Report

Air quality monitoring data

PIT OFFICE-DRC- III UG: CDRUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-04-2020	87
23-04-2020	93
TLV	600

NEHRU NAGAR/ SUBSTATION: CDRUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
10-04-2020	106
24-04-2020	124
TLV	600

DRC- V COLONY: CDRUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
09-04-2020	84
23-04-2020	90
TLV	200

PIT OFFICE DRC-IV: CDRUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
09-04-2020	145
23-04-2020	149
TLV	200




SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)

1 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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	--

TSET REPORT NO.	RIN/TR/APRIL-20/W33	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ),NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD :	LSOP 5
NAME OF PROJECT	DRC UG	SAMPLING PLAN :	LQR 47

MINE WATER DISCHARGE : CDRUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
07-04-2020	7.66	28	32	<2
23-04-2020	7.8	26	36	<2
TLV	5.5 - 9.0	100	250	10



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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: CHANDRAPUR AREA YEAR: 2020
NAME OF PROJECT: DRC UG MONTH: APRIL

PIT OFFICE DRC- III UG: CDRUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	06-04-2020	56.8	56.4
APRIL 2020	24-04-2020	57.5	57.3
TLV		75	70

DURGAPUR COLONY: CDRUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	09-04-20	44.6	42.2
APRIL 2020	21-04-20	43.9	42.7
TLV		55	45

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

DURGAPUR OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL 2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

INTRODUCTION

The Durgapur opencast project is located in Chandrapur district of Maharashtra State and is administered by Chandrapur area of Western Coalfields Limited. The drainage of the area is controlled by two seasonal tributaries (Motaghat nalla and Upasa nalla) of Erai river, which flows west of the area. Climate of the area is dry to moist tropical. The above-mentioned industries specially the Super Thermal Power Station are likely to contribute in increasing the air pollution of nearby villages. Durgapur village has been affected maximum due to proximity of the thermal powerhouse.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER'S OFFICE- SECTOR V:	CDOA1
2	DURGAPUR VILLAGE:	CDOA2
3	MANAGER OFFICE Q-IV :	CDOA3
4	FILTER PLANT DOC/POC COLONY:	CDOA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP:	CDOF1
2	CHECK POST/ AYYAPA MANDIR	CDOF2

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE Q-II:	CDOW1
2	MINE WATER DISCHARGE Q-IV:	CDOW2
3	WETP DISCHARGE:	CDOW3
4	STP DISCHARGE:	CDOW4

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP:	CDON1
2	DURGAPUR COLONY:	CDON2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--

TSET REPORT NO.	RIN/TR/APRIL-20/A25	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM (ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	DURGAPUR OC	SAMPLING PLAN	LQR 47

MANAGER'S OFFICE- SECTOR V: CDOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-04-2020	92	33	19	10
20-04-2020	70	21	12	<10
TLV	300	60	120	120

DURGAPUR VILLAGE: CDOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-04-2020	68	28	16	<10
20-04-2020	75	35	19	10
TLV	100	60	80	80

MANAGER OFFICE Q-IV : CDOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-04-2020	35	8	<6	<10
26-04-2020	30	9	<6	<10
TLV	300	60	120	120

FILTER PLANT DOC/POC COLONY: CDOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-04-2020	88	30	17	<10
20-04-2020	76	34	19	<10
TLV	100	60	80	80



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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.

Test Report

Air quality monitoring data

MANAGER'S OFFICE- SECTOR V: CDOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-04-2020	155
20-04-2020	126
TLV	600

DURGAPUR VILLAGE: CDOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-04-2020	102
20-04-2020	128
TLV	200

MANAGER OFFICE Q-IV : CDOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-04-2020	74
20-04-2020	80
TLV	600


FILTER PLANT DOC/POC COLONY: CDOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-04-2020	164
20-04-2020	145
TLV	200



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
MANAGER (ENV.)

- | | |
|---|--|
| 1 | 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. |

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	---

TSET REPORT NO.	RIN/TR/APRIL-20/W25	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	DURGAPUR OC	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE Q-IV: CDOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
06-04-2020	7.28	24	32	<2
20-04-2020	7.4	22	36	<2
TLV	5.5 - 9.0	100	250	10

WETP DISCHARGE: CDOW3				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
06-04-2020	7.46	28	40	<2
20-04-2020	7.32	24	28	<2
TLV	5.5 - 9.0	100	250	10

STP DISCHARGE: CDOW4		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS(in mg/l)	BOD(in mg/l)
DETECTION LIMIT	10	2
06-04-2020	32	10.2
20-04-2020	26	11.4
TLV	100	30



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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: CHANDRAPUR AREA
NAME OF PROJECT: DURGAPUR OC

YEAR: 2020
MONTH: APRIL

CHP: CDON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	09-04-2020	63.4	63.2
APRIL 2020	24-04-2020	62.8	62.6
TLV		75	70

DURGAPUR COLONY: CDON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	09-04-2020	44.6	42.2
APRIL 2020	24-04-2020	43.9	42.7
TLV		50	45

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

HLP OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL-2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

INTRODUCTION

Hindustan Lalpeth Opencast Project is located in Chandrapur district of Maharashtra State and is administered by Chandrapur Area of Western Coalfields Limited. Erai river acts as the main drainage of the area which flows from North to South and meets Wardha river. The climate of the area is dry to moist tropical. Transportation roads, agricultural and local activities, vehicular traffic etc also contribute to the pollution. The above-mentioned industries are also likely to contribute in increasing the pollution load of the area.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER OFFICE(NANDGAON UG):	CHOA1
2	MANAGER OFFICE(HLP OC):	CHOA2
3	MANA VILLAGE :	CHOA3
4	COLONY (NANDGAON):	CHOA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MAIN CHP:	CHOA1
2	WEIGHT BRIDGE:	CHOA2
3	RAILWAY SIDING:	CHOA3

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE DISCHARGE :	CHOW1
2	ETP DISCHARGE:	CHOW2

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP:	CHON1
2	COLONY:	CHON2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	---

TSET REPORT NO.	RIN/TR/APRIL-20/A28	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)],PM-2.5 & SPM*		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	HLP OC	SAMPLING PLAN : LQR 47	

MANAGER OFFICE(NANDGAON UG): CHOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-04-2020	51	24	14	<10
22-04-2020	56	23	13	<10
TLV	300	60	120	120

MANAGER OFFICE(HLP OC): CHOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-04-2020	87	31	18	<10
22-04-2020	76	23	13	<10
TLV	300	60	120	120

MANA VILLAGE : CHOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-04-2020	51	33	19	10
21-04-2020	55	32	18	<10
TLV	100	60	80	80

COLONY (NANDGAON): CHOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-04-2020	43	26	15	<10
22-04-2020	45	17	9	<10
TLV	100	60	80	80



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | This Report refers to the values related to the items tested as received |
| 2 | This Report cannot be reproduced in part or full without written permission of the management. |

Test Report

Air quality monitoring data

MANAGER OFFICE(NANDGAON UG): CHOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-04-2020	75
22-04-2020	81
TLV	600

MANAGER OFFICE(HLP OC): CHOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-04-2020	142
22-04-2020	128
TLV	600

MANA VILLAGE : CHOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-04-2020	84
21-04-2020	95
TLV	200


COLONY (NANDGAON): CHOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-04-2020	77
22-04-2020	82
TLV	200



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
MANAGER (ENV.)

- | | |
|---|--|
| 1 | 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. |

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	--

TSET REPORT NO.	RIN/TR/APRIL-20/W28	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	HLP OC	SAMPLING PLAN : LQR 47	

MINE DISCHARGE : CHOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
08-04-2020	7.26	26	36	<2
22-04-2020	7.62	32	40	<2
TLV	5.5 - 9.0	100	250	10



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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: CHANDRAPUR AREA
NAME OF PROJECT: HLP OC

YEAR: 2020
MONTH: APRIL

CHP: CHON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	09-04-2020	45.8	44.6
APRIL 2020	21-04-2020	48.2	48
TLV		75	70

COLONY: CHON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	09-04-2020	47.6	47.3
APRIL 2020	21-04-2020	46.3	40.1
TLV		55	45

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

HLP I& III UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



APRIL 2020

Environment Laboratory
NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

INTRODUCTION

Hindustan Lalpeth -I & III Underground Projects are located in Chandrapur district of Maharashtra State and are administered by Chandrapur Area of Western Coalfields Limited. Erai river acts as the main drainage of the area which flows from North to South and meets Wardha river. The climate of the area is dry to moist tropical. The above-mentioned industries are also likely to contribute in increasing the pollution load of the area.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	SUBSTATION HLC I UG:	CHUA1
2	PIT OFFICE - HLC-I INCLINE:	CHUA2
3	HLC-III COLONY :	CHUA3
4	RAJIV GANDHI ENGG. COLLEGE:	CHUA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE - I UG:	CHUW1
2	MINE WATER DISCHARGE-III UG:	CHUW2

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE - I UG:	CHUN1
2	COLONY:	CHUN2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--

TSET REPORT NO.	RIN/TR/APRIL-20/A27	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)],PM-2.5 & SPM*		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD :	LSOP 4
NAME OF PROJECT	HLP I& III UG	SAMPLING PLAN :	LQR 47

SUBSTATION HLC I UG: CHUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-04-2020	61	24	14	<10
20-04-2020	74	26	14	<10
TLV	300	60	120	120

PIT OFFICE - HLC-I INCLINE: CHUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-04-2020	64	26	15	<10
21-04-2020	65	28	15	<10
TLV	300	60	120	120

HLC-III COLONY : CHUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-04-2020	58	27	15	<10
22-04-2020	49	18	10	<10
TLV	100	60	80	80

RAJIV GANDHI ENGG. COLLEGE: CHUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
09-04-2020	77	25	14	<10
23-04-2020	59	21	12	<10
TLV	100	60	80	80



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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.

Test Report

Air quality monitoring data

SUBSTATION HLC I UG: CHUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-04-2020	96
20-04-2020	119
TLV	600

PIT OFFICE - HLC-I INCLINE: CHUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-04-2020	110
21-04-2020	120
TLV	600

HLC-III COLONY : CHUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-04-2020	78
22-04-2020	93
TLV	200

RAJIV GANDHI ENGG. COLLEGE: CHUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
09-04-2020	108
23-04-2020	91
TLV	200



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)

- 1 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.


Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	--

TSET REPORT NO.	RIN/TR/APRIL-20/W27	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD :	LSOP 5
NAME OF PROJECT	HLP I& III UG	SAMPLING PLAN :	LQR 47

MINE WATER DISCHARGE - I UG: CHUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
06-04-2020	7.64	24	28	<2
20-04-2020	7.42	20	24	<2
TLV	5.5 - 9.0	100	250	10

MINE WATER DISCHARGE-III UG: CHUW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
07-04-2020	7.84	28	36	<2
23-04-2020	7.46	30	32	<2
TLV	5.5 - 9.0	100	250	10


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

1	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: CHANDRAPUR AREA **YEAR: 2020**
NAME OF PROJECT: HLP I& III UG **MONTH: APRIL**

FAN HOUSE - I UG: CHUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	09-04-2020	66.7	56.6
APRIL 2020	24-04-2020	57.4	57.2
TLV		75	70

COLONY: CHUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	09-04-2020	43.6	43.4
APRIL 2020	21-04-2020	43.8	43.6
TLV		55	45

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

MAHAKALI UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL 2020

Environment Laboratory
NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

INTRODUCTION

Mahakali Underground Project is located in Chandrapur District of Maharashtra State and is administered by Chandrapur Area of Western Coalfields Limited. The climate of the area is dry to moist tropical. The above-mentioned industries are also expected to contribute in increasing the pollution load of the area.

Sampling Location:**Ambient Air Quality Monitoring locations:**

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER'S OFFICE MAHAKALI UG:	CMUA1
2	CRC SUBSTATION/ FILTER PLANT:	CMUA2
3	JATWARA MILK SCHEME:	CMUA3
4	COLONY:	CMUA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE :	CMUW1

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE:	CMUN1
2	COLONY:	CMUN2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	---	--

TSET REPORT NO.	RIN/TR/APRIL-19/A31	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(Env.),WCL(HQ) NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING PLAN	LQR 47
NAME OF PROJECT	MAHAKALI UG	SAMPLING METHOD	LSOP 4

MANAGER'S OFFICE MAHAKALI UG: CMUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
10-04-2020	64	22	13	<10
24-04-2020	58	20	11	<10
TLV	300	60	120	120

CRC SUBSTATION/ FILTER PLANT: CMUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
10-04-2020	77	26	15	<10
24-04-2020	85	30	17	<10
TLV	300	60	120	120

JATWARA MILK SCHEME: CMUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
10-04-2020	50	20	11	<10
24-04-2020	63	25	14	<10
TLV	300	60	120	120

COLONY: CMUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-04-2020	66	23	13	<10
25-04-2020	57	21	12	<10
TLV	100	60	80	80



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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.

Test Report

Air quality monitoring data

MANAGER'S OFFICE MAHAKALI UG: CMUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
10-04-2020	73
24-04-2020	71
TLV	600

CRC SUBSTATION/ FILTER PLANT: CMUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
10-04-2020	94
24-04-2020	132
TLV	600

JATWARA MILK SCHEME: CMUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
10-04-2020	89
24-04-2020	106
TLV	600

COLONY: CMUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-04-2020	104
25-04-2020	82
TLV	200




SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)


- 1 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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	--	--

TSET REPORT NO.	RIN/TR/APRIL-20/W31	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(Env.),WCL(HQ) NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING PLAN	LQR 47
NAME OF PROJECT	MAHAKALI UG	SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE : CMUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
10-04-2020	7.77	30	32	<2
24-04-2020	7.14	16	24	<2
TLV	5.5 - 9.0	100	250	10


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

1	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: CHANDRAPUR AREA
NAME OF PROJECT: MAHAKALI UG

YEAR: 2020
MONTH: APRIL

FAN HOUSE: CMUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	06-04-2020	63.8	63.4
APRIL 2020	24-04-2020	64.6	64.4
TLV		75	70

COLONY: CMUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	06-04-2020	42.5	42.3
APRIL 2020	24-04-2020	43.7	42.5
TLV		55	45

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

MANA UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL 2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

INTRODUCTION

Mana Underground Project is located in Chandrapur district of Maharashtra State and is administered by Chandrapur Area of Western Coalfields Limited. The climate of the area is dry to moist tropical. The above-mentioned industries are also likely to contribute in increasing the pollution load of the area.

Sampling Location:**Ambient Air Quality Monitoring locations:**

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER'S OFFICE:	CMUA1
2	SUBSTATION MANA INCLINE:	CMUA2
3	COLONY (NANDGAON):	CMUA3
4	MANA VILLAGE:	CMUA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	CMUW1

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE:	CMUN1
2	COLONY (HLP OC):	CMUN2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--

TSET REPORT NO.	RIN/TR/APRIL-20/A30	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	MANA UG	SAMPLING PLAN : LQR 47	

MANAGER'S OFFICE: CMUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-04-2020	70	35	20	10
21-04-2020	65	23	13	<10
TLV	300	60	120	120

SUBSTATION MANA INCLINE: CMUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-04-2020	69	26	15	<10
21-04-2020	75	25	14	<10
TLV	300	60	120	120

COLONY (NANDGAON): CMUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-04-2020	43	26	15	<10
22-04-2020	45	17	9	<10
TLV	100	60	80	80

MANA VILLAGE: CMUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-04-2020	51	33	19	10
21-04-2020	55	32	18	<10
TLV	100	60	80	80



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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.

Test Report

Air quality monitoring data

MANAGER'S OFFICE: CMUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-04-2020	104
21-04-2020	120
TLV	600

SUBSTATION MANA INCLINE: CMUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-04-2020	96
21-04-2020	123
TLV	600

COLONY (NANDGAON): CMUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-04-2020	77
22-04-2020	82
TLV	200

MANA VILLAGE: CMUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-04-2020	84
21-04-2020	95
TLV	200




SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)


- 1 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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	--

TSET REPORT NO.	RIN/TR/APRIL-20/W30	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD	LSOP 5
NAME OF PROJECT	MANA UG	SAMPLING PLAN	LQR 47

MINE WATER DISCHARGE: CMUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
07-04-2020	7.48	30	36	<2
21-04-2020	7.36	28	32	<2
TLV	5.5 - 9.0	100	250	10


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

1	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: CHANDRAPUR AREA **YEAR: 2020**
NAME OF PROJECT: MANA UG **MONTH: APRIL**

FAN HOUSE: CMUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	09-04-2020	67.6	67.3
APRIL 2020	21-04-2020	68.8	68.6
TLV		75	70

COLONY (HLP OC): CMUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	09-04-2020	47.6	47.3
APRIL 2020	21-04-2020	46.3	40.1
TLV		55	45

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

NANDGAON UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL 2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

INTRODUCTION

Nandgaon Underground Project is located in Chandrapur district of Maharashtra State and is administered by Chandrapur Area of Western Coalfields Limited. The climate of the area is dry to moist tropical. The above-mentioned industries are also likely to contribute in increasing the pollution load of the area.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER OFFICE NANDGAON UG:	CNUA1
2	SUBSTATION MANA INCLINE:	CNUA2
3	MANA VILLAGE :	CNUA3
4	COLONY (NANDGAON):	CNUA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	CNUW1

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE:	CNUN1
2	COLONY HLP OC:	CNUN2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--

TSET REPORT NO.	RIN/TR/APRIL-20/A29	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	NANDGAON UG	SAMPLING PLAN : LQR 47	

MANAGER OFFICE NANDGAON UG: CNUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-04-2020	51	24	14	<10
22-04-2020	56	23	13	<10
TLV	300	60	120	120

SUBSTATION MANA INCLINE: CNUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-04-2020	69	26	15	<10
21-04-2020	75	25	14	<10
TLV	300	60	120	120

MANA VILLAGE : CNUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-04-2020	51	33	19	10
21-04-2020	55	32	18	<10
TLV	100	60	80	80

COLONY (NANDGAON): CNUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-04-2020	43	26	15	<10
22-04-2020	45	17	9	<10
TLV	100	60	80	80



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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.

Test Report

Air quality monitoring data

MANAGER OFFICE NANDGAON UG: CNUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-04-2020	75
22-04-2020	81
TLV	600

SUBSTATION MANA INCLINE: CNUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-04-2020	96
21-04-2020	123
TLV	600

MANA VILLAGE : CNUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-04-2020	84
21-04-2020	95
TLV	200

COLONY (NANDGAON): CNUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-04-2020	77
22-04-2020	82
TLV	200




SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)


- 1 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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	--

TSET REPORT NO.	RIN/TR/APRIL-20/W29	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	NANDGAON UG	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: CNUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
08-04-2020	7.28	36	32	<2
22-04-2020	7.49	28	44	<2
TLV	5.5 - 9.0	100	250	10


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

1	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: CHANDRAPUR AREA YEAR: 2020
NAME OF PROJECT: NANDGAON UG MONTH: APRIL

FAN HOUSE: CNUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	09-04-2020	65.9	65.5
APRIL 2020	21-04-2020	66.5	66.3
TLV		75	70

COLONY HLP OC: CNUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	09-04-2020	47.6	47.3
APRIL 2020	21-04-2020	46.3	40.1
TLV		55	45

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

PADMAPUR OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL 2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 TO 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

INTRODUCTION

The Durgapur opencast project is located in Chandrapur district of Maharashtra State and is administered by Chandrapur area of Western Coalfields Limited. The drainage of the area is controlled by two seasonal tributaries (Motaghat nalla and Upasa nalla) of Erai river, which flows west of the area. Climate of the area is dry to moist tropical. The above-mentioned industries specially the Super Thermal Power Station are likely to contribute in increasing the air pollution of nearby villages. Durgapur village has been affected maximum due to proximity of the thermal powerhouse.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER'S OFFICE-Q-IV:	CPOA1
2	WARWAT VILLAGE:	CPOA2
3	KITADI VILLAGE :	CPOA3
4	VICHODA RAYATWARI VILLAGE:	CPOA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP/MGR LOADING POINT:	CPOF1
2	WEIGHT BRIDGE:	CPOF2

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE SECTOR III:	CPOW1
2	ETP DISCHARGE:	CPOW2

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP:	CPON1
2	DURGAPUR COLONY:	CPON2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--

TSET REPORT NO.	RIN/TR/APRIL-20/A26	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NO _x (06:2006), SO ₂ (02:2001)],PM-2.5 & SPM*		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD :	LSOP 4
NAME OF PROJECT	PADMAPUR OC	SAMPLING PLAN :	LQR 47

MANAGER'S OFFICE-Q-IV: CPOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-04-2020	35	8	<6	<10
26-04-2020	30	9	<6	<10
TLV	300	60	120	120

WARWAT VILLAGE: CPOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-04-2020	44	28	16	<10
26-04-2020	45	15	8	<10
TLV	100	60	80	80

KITADI VILLAGE : CPOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-04-2020	45	18	10	<10
26-04-2020	40	14	8	<10
TLV	100	60	80	80

VICHODA RAYATWARI VILLAGE: CPOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-04-2020	68	25	14	<10
27-04-2020	35	12	7	<10
TLV	100	60	80	80



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	This Report refers to the values related to the items tested as received
2	This Report cannot be reproduced in part or full without written permission of the management.

Test Report

Air quality monitoring data

MANAGER'S OFFICE-Q-IV: CPOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-04-2020	74
26-04-2020	80
TLV	600

WARWAT VILLAGE: CPOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-04-2020	96
26-04-2020	86
TLV	200

KITADI VILLAGE : CPOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-04-2020	87
26-04-2020	76
TLV	200

VICHODA RAYATWARI VILLAGE: CPOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-04-2020	104
27-04-2020	68
TLV	200



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
MANAGER (ENV.)

- 1 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.


Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	--

TSET REPORT NO.	RIN/TR/APRIL-20/W26	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD :	LSOP 5
NAME OF PROJECT	PADMAPUR OC	SAMPLING PLAN :	LQR 47

MINE WATER DISCHARGE SECTOR III: CPOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
12-04-2020	7.47	36	20	<2
26-04-2020	7.77	32	36	<2
TLV	5.5 - 9.0	100	250	10

ETP DISCHARGE: CPOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
12-04-2020	7.26	36	38	<2
26-04-2020	7.05	28	20	<2
TLV	5.5 - 9.0	100	250	10


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

1	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: CHANDRAPUR AREA **YEAR: 2020**
NAME OF PROJECT: PADMAPUR OC **MONTH: APRIL**

CHP: CPON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	06-04-2020	63.7	63.6
APRIL 2020	21-04-2020	63.5	63.3
TLV		75	70

DURGAPUR COLONY: CPON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	09-04-2020	44.6	42.2
APRIL 2020	21-04-2020	43.9	42.7
TLV		55	45

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

JUNA KUNADA OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL 2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
4	NOISE LEVEL DATA	6

INTRODUCTION

Juna Kunada OC is located in Chandrapur district of Maharashtra state. The project is administered by Majri Area of Western Coalfields Limited. The Wardha River is the main drainage channel for the surrounding area. 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	PIT OFFICE:	MJOA1
2	SAM OFFICE CHARGAON:	MJOA2
3	EKTA NAGAR COLONY:	MJOA3
4	CHARGAON INTAKE WELL:	MJOA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHARGAON CHP:	MJOF1

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER OFFICE:	MJON1
2	EKTA NAGAR COLONY:	MJON2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--

TSET REPORT NO.	RIN/TR/APRIL-20/A46	DATE OF ISSUE	30.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] &PM-2.5		
NAME OF AREA	MAJRI AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	JUNA KUNADA OC	SAMPLING PLAN : LQR 47	

PIT OFFICE: MJOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
10-04-2020	75	28	15	<10
20-04-2020	57	27	15	<10
TLV	300	60	120	120

SAM OFFICE CHARGAON: MJOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-04-2020	55	37	20	10
29-04-2020	42	27	15	<10
TLV	300	60	120	120

EKTA NAGAR COLONY: MJOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-04-2020	62	43	24	11
29-04-2020	57	31	18	<10
TLV	100	60	80	80

CHARGAON INTAKE WELL: MJOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-04-2020	35	26	14	<10
29-04-2020	32	16	9	<10
TLV	100	60	80	80



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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.

FUGITIVE DUST MONITORING DATA

CHARGAON CHP: MJOF1		
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)	
	PM10	PM _{2.5}
DETECTION LIMIT	5	2
28-04-2020	171	45



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

Test Report

Air quality monitoring data

PIT OFFICE: MJOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
10-04-2020	94
20-04-2020	82
TLV	600

SAM OFFICE CHARGAON: MJOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-04-2020	72
29-04-2020	63
TLV	600

EKTA NAGAR COLONY: MJOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-04-2020	81
29-04-2020	92
TLV	200

CHARGAON INTAKE WELL: MJOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-04-2020	66
29-04-2020	54
TLV	200



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)

- 1 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.

FUGITIVE DUST MONITORING DATA

CHARGAON CHP: MJOF1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
28-04-2020	241



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)

- | | |
|---|--|
| 1 | 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: MAJRI AREA **YEAR: 2020**
NAME OF PROJECT: JUNA KUNADA OC **MONTH: APRIL**

MANAGER OFFICE: MJON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	08-04-2020	45.6	44.2
APRIL 2020	18-04-2020	45.4	44.1
TLV		75	70

EKTA NAGAR COLONY: MJON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	08-04-2020	43.5	42.1
APRIL 2020	18-04-2020	43.4	42.2
TLV		55	45

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

NEW MAJRI-II (A)OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL 2020

Environment Laboratory
NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

INTRODUCTION

New Majri (A) OC is located in Chandrapur district of Maharashtra state. The project is administered by Majri Area of Western Coalfields Limited. The Wardha river is the main drainage channel for the surrounding area. The Konda and Sirna nalla flowing to the North and East of the New Majri area discharge into the Wardha River. The climate of the area is tropical. Transportation roads, agricultural and local activities, vehicular traffic etc also contributes to the pollute

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NMOC SUBSTATION:	MMOA1
2	PATALA MAGAZINE:	MMOA2
3	PRIMARY HEALTH CENTRE, MAJRI BASTI:	MMOA3
4	KUCHANA VILLAGE:	MMOA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FIELD MAIN. SHED AT SEC C HAUL ROAD:	MMOF1
2	NMOC CHP:	MMOF2

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	MMOW1
2	WETP DISCHARGE:	MMOW2

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FIELD MAIN. SHED:	MMON1
2	KUCHNA COLONY:	MMON2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	---

TSET REPORT NO.	RIN/TR/APRIL-20/A42	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 30.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	MAJRI AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	NEW MAJRI-II (A)OC	SAMPLING PLAN	LQR 47

NMOC SUBSTATION: MMOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-04-2020	65	32	18	<10
17-04-2020	33	12	7	<10
TLV	300	60	120	120

PATALA MAGAZINE: MMOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-04-2020	33	21	12	<10
17-04-2020	39	24	14	<10
TLV	300	60	120	120

PRIMARY HEALTH CENTRE, MAJRI BASTI: MMOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-04-2020	56	28	15	<10
17-04-2020	12	10	6	<10
TLV	100	60	80	80

KUCHANA VILLAGE: MMOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-04-2020	31	14	8	<10
08-04-2020	52	18	13	<10
14-04-2020	48	19	12	<10
15-04-2020	50	21	14	<10
17-04-2020	21	13	7	<10
20-04-2020	41	20	13	<10
28-04-2020	38	17	14	<10
29-04-2020	37	15	11	<10
TLV	100	60	80	80



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

FUGITIVE DUST MONITORING DATA

FIELD MAIN. SHED AT SEC C HAUL ROAD: MMOF1		
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)	
	PM10	PM_{2.5}
DETECTION LIMIT	5	2
07-04-2020	175	35

NMOC CHP: MMOF2		
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)	
	PM10	PM_{2.5}
DETECTION LIMIT	5	2
08-04-2020	197	39



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

Test Report

Air quality monitoring data

NMOC SUBSTATION: MMOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-04-2020	94
17-04-2020	59
TLV	600

PATALA MAGAZINE: MMOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-04-2020	65
17-04-2020	74
TLV	600

PRIMARY HEALTH CENTRE, MAJRI BASTI: MMOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-04-2020	81
17-04-2020	42
TLV	200

KUCHANA VILLAGE: MMOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-04-2020	68
08-04-2020	84
14-04-2020	87
15-04-2020	79
17-04-2020	62
20-04-2020	83
28-04-2020	76
29-04-2020	72
TLV	200



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
MANAGER (ENV.)

- | | |
|---|--|
| 1 | 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. |

FUGITIVE DUST MONITORING DATA

FIELD MAIN. SHED AT SEC C HAUL ROAD: MMOF1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-04-2020	259

NMOC CHP: MMOF2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-04-2020	298




SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)

1	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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	--

TSET REPORT NO.	RIN/TR/APRIL-20/W42	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.)WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 30.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	MAJRI AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	NEW MAJRI-II (A)OC	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: MMOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
06-04-2020	6.5	56	24	<2
17-04-2020	6.8	50	32	<2
TLV	5.5 - 9.0	100	250	10

WETP DISCHARGE: MMOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
06-04-2020	7	44	36	<2
17-04-2020	7.4	46	40	<2
TLV	5.5 - 9.0	100	250	10



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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: MAJRI AREA **YEAR: 2020**
NAME OF PROJECT: NEW MAJRI-II (A)OC **MONTH: APRIL**

FIELD MAIN.SHED: MMON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	08-04-2020	55.3	54.4
APRIL 2020	18-04-2020	55.1	54.2
TLV		75	70

KUCHNA COLONY: MMON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	08-04-2020	44.5	43.4
APRIL 2020	18-04-2020	44.3	43.1
TLV		55	45

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

NEW MAJRI-UG TO OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL 2020

Environment Laboratory
NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

INTRODUCTION

New Majri UG to OC Project is located in Chandrapur district of Maharashtra state. The project is administered by Majri Area of Western Coalfields Limited. The Wardha river is the main drainage channel for the surrounding area. 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	PATALA MAGAZINE:	MMUA1
2	MANAGER OFFICE UG TO OC:	MMUA2
3	CONTRACTOR CAMP:	MMUA3
4	SAWARLA VILLAGE	MMUA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	RAILWAY SIDING:	MMUF1

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	MMUW1

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE - MAJRI:	MMUN1
2	NAGLON COLONY:	MMUN2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--

TSET REPORT NO.	RIN/TR/APRIL-20/A43	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] &PM-2.5		
NAME OF AREA	MAJRI AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	NEW MAJRI-UG TO OC	SAMPLING PLAN : LQR 47	

PATALA MAGAZINE: MMUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-04-2020	45	27	14	<10
17-04-2020	33	21	12	<10
TLV	300	60	120	120

MANAGER OFFICE UG TO OC: MMUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-04-2020	61	26	14	<10
28-04-2020	52	21	12	<10
TLV	300	60	120	120

CONTRACTOR CAMP:MMUA5				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-04-2020	52	33	20	12
28-04-2020	40	30	17	<10
TLV	300	60	120	120

SAWARLA VILLAGE:MMUA6				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-04-2020	46	29	16	11
28-04-2020	37	25	14	<10
TLV	100	60	80	80



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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.

FUGITIVE DUST MONITORING DATA

RAILWAY SIDING: MMUF1		
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)	
	PM10	PM _{2.5}
DETECTION LIMIT	5	2
08-04-2020	152	42



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

Test Report

Air quality monitoring data

PATALA MAGAZINE: MMUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-04-2020	82
17-04-2020	74
TLV	600

MANAGER OFFICE UG TO OC: MMUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-04-2020	73
28-04-2020	67
TLV	600

CONTRACTOR CAMP: MMUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-04-2020	71
28-04-2020	66
TLV	600

SAWARLA VILLAGE MMUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-04-2020	73
28-04-2020	58
TLV	200



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)

- 1 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.

FUGITIVE DUST MONITORING DATA

RAILWAY SIDING: MMUF1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-04-2020	209




SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)

- | | |
|---|--|
| 1 | 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. |

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	--

TSET REPORT NO.	RIN/TR/APRIL-20/W43	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	MAJRI AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	NEW MAJRI-UG TO OC	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: MMUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
08-04-2020	7.1	30	32	BDL
26-04-2020	7.3	38	40	BDL
TLV	5.5 - 9.0	100	250	10

ETP:MMUW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
14-04-2020	7.6	62	56	BDL
26-04-2020	7.2	70	64	BDL
TLV	5.5 - 9.0	100	250	10



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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: MAJRI AREA **YEAR: 2020**
NAME OF PROJECT: NEW MAJRI-UG TO OC **MONTH: APRIL**

FAN HOUSE - MAJRI: MMUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	08-04-2020	55.4	53.2
APRIL 2020	18-04-2020	55.2	53.3
TLV		75	70

NAGLON COLONY: MMUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	08-04-2020	43.7	42.5
APRIL 2020	18-04-2020	43.5	42.2
TLV		55	45

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

TELWASA OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL 2020



Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY



INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

INTRODUCTION

Telwasa OC is located in Chandrapur district of Maharashtra state. The project is administered by Majri Area of Western Coalfields Limited. The Wardha River is the main drainage channel for the surrounding area. A few seasonal nullahs drain the rainwater from the Area into Wardha River. 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	TELWASA SECURITY OFFICE:	MTOA1
2	SAM OFFICE:	MTOA2
3	CHARGAON VILLAGE:	MTOA3
4	EKTA NAGAR COLONY:	MTOA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	GROUND STOCK YARD:	MTOF1
2	WEIGHT BRIDGE:	MTOF2

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NEAR PIT OFFICE:	MTON1
2	EKTA NAGAR COLONY:	MTON2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--

TSET REPORT NO.	RIN/TR/APRIL-20/A43	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] &PM-2.5		
NAME OF AREA	MAJRI AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	TELWASA OC	SAMPLING PLAN : LQR 47	

TELWASA SECURITY OFFICE: MTOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
10-04-2020	41	38	21	10
20-04-2020	36	22	12	<10
TLV	300	60	120	120

SAM OFFICE: MTOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
10-04-2020	66	41	23	11
20-04-2020	58	38	21	10
TLV	300	60	120	120

CHARGAON VILLAGE: MTOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-04-2020	58	41	23	11
21-04-2020	62	40	22	11
TLV	100	60	80	80

EKTA NAGAR COLONY: MTOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-04-2020	62	43	24	11
29-04-2020	57	31	18	<10
TLV	100	60	80	80



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

FUGITIVE DUST MONITORING DATA

GROUND STOCK YARD: MTOF1		
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)	
	PM10	PM_{2.5}
DETECTION LIMIT	5	2
29-04-2020	156	46

WEIGHT BRIDGE: MTOF2		
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)	
	PM10	PM_{2.5}
DETECTION LIMIT	5	2
13-04-2020	138	41



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

Test Report

Air quality monitoring data

TELWASA SECURITY OFFICE: MTOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
10-04-2020	72
20-04-2020	68
TLV	600

SAM OFFICE: MTOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
10-04-2020	85
20-04-2020	88
TLV	600

CHARGAON VILLAGE: MTOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-04-2020	74
21-04-2020	82
TLV	200

EKTA NAGAR COLONY: MTOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-04-2020	81
29-04-2020	92
TLV	200



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)

- 1 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.

FUGITIVE DUST MONITORING DATA

GROUND STOCK YARD: MTOF1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
29-04-2020	222

WEIGHT BRIDGE: MTOF2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-04-2020	191



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)

- | | |
|---|--|
| 1 | 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. |

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	--

TSET REPORT NO.	RIN/TR/APRIL-20/W43	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	MAJRI AREA	SAMPLING METHOD	LSOP 5
NAME OF PROJECT	TELWASA OC	SAMPLING PLAN	LQR 47

DETTP DISCHARGE MTOW1		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS (in mg/l)	BOD (in mg/l)
DETECTION LIMIT	10	2
14-04-2020	32	8
27-04-2020	40	10
TLV	100	30



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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: MAJRI AREA
NAME OF PROJECT: TELWASA OC

YEAR: 2020
MONTH: APRIL

NEAR PIT OFFICE: MTON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	08-04-2020	51.7	49.3
APRIL 2020	18-04-2020	51.6	49.1
TLV		75	70

EKTA NAGAR COLONY: MTON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	08-04-2020	43.5	42.1
APRIL 2020	18-04-2020	43.4	42.2
TLV		55	45

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

YEKONA I& II OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL 2020



Environment Laboratory
NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY



INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 9
3	WATER QUALITY MONITORING DATA	10
4	NOISE LEVEL DATA	11 TO 12

INTRODUCTION

Yekona I & II OC is located in Chandrapur district of Maharashtra state. The project is administered by Majri Area of Western Coalfields Limited. The Wardha River is the main drainage channel for the surrounding area. A few seasonal nullahs drain the rainwater from the Area into Wardha River. 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	PIT OFFICE:	MYOA1
2	PENZUNI VILLAGE :	MYOA2
3	ASHTI VILLAGE:	MYOA3
4	DANDGAON VILLAGE	MYOA4
5	HIWARA MAJARA:	MYOA5
6	YEKONA VILLAGE:	MYOA6
7	WANOJA VILLAGE:	MYOA7
8	NAIDEO VILLAGE	MYOA8

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	MYOW1

Fugitive dust monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	COAL STOCK YARD:	MYOF1

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	PIT OFFICE:	MYON1
2	PENZUNI VILLAGE :	MYON2
3	ASHTI VILLAGE:	MYON3
4	DANDGAON VILLAGE	MYON4
5	HIWARA MAJARA:	MYON5
6	YEKONA VILLAGE:	MYON6
7	WANOJA VILLAGE:	MYON7
8	NAIDEO VILLAGE	MYON8

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--

TSET REPORT NO.	RIN/TR/APRIL-20/A48	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	MAJRI AREA	SAMPLING METHOD :	LSOP 4
NAME OF PROJECT	YEKONA I& II OC	SAMPLING PLAN :	LQR 47

PIT OFFICE: MYOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
09-04-2020	85	32	20	14
21-04-2020	73	27	15	<10
TLV	300	60	120	120

PENZUNI VILLAGE : MYOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-04-2020	56	24	12	10
21-04-2020	66	28	15	<10
TLV	100	60	80	80

ASHTI VILLAGE: MYOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
09-04-2020	54	37	21	<10
21-04-2020	45	24	13	<10
TLV	100	60	80	80

DANDGAON VILLAGE MYOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM₁₀	PM_{2.5}	NO_x	SO₂
DETECTION LIMIT	5	2	6	10
09-04-2020	49	29	12	<10
22-04-2020	46	27	11	<10
TLV	100	60	80	80

HIWARA MAJARA: MYOA5				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM₁₀	PM_{2.5}	NO_x	SO₂
DETECTION LIMIT	5	2	6	10
09-04-2020	49	26	14	<10
22-04-2020	51	25	13	<10
TLV	100	60	80	80

YEKONA VILLAGE: MYOA6				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM₁₀	PM_{2.5}	NO_x	SO₂
DETECTION LIMIT	5	2	6	10
07-04-2020	53	27	28	12
08-04-2020	50	25	36	15
14-04-2020	59	24	27	13
15-04-2020	46	22	25	11
20-04-2020	36	20	14	<10
21-04-2020	41	24	17	<10
28-04-2020	45	26	18	11
29-04-2020	47	26	20	11
TLV	100	60	80	80

WANOJA VILLAGE: MYOA7				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM₁₀	PM_{2.5}	NO_x	SO₂
DETECTION LIMIT	5	2	6	10
07-04-2020	54	20	12	<10
08-04-2020	52	19	14	<10
14-04-2020	49	15	11	<10
15-04-2020	50	18	26	<10
20-04-2020	43	15	10	<10
21-04-2020	41	14	10	<10
28-04-2020	45	15	11	<10
29-04-2020	46	16	12	<10
TLV	100	60	80	80

NAIDEO VILLAGE MYOA8				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM₁₀	PM_{2.5}	NO_x	SO₂
DETECTION LIMIT	5	2	6	10
07-04-2020	50	21	13	15
08-04-2020	52	24	17	12
14-04-2020	43	18	16	13
15-04-2020	41	15	11	13
20-04-2020	45	19	13	<10
21-04-2020	46	16	11	<10
28-04-2020	44	15	12	<10
29-04-2020	42	14	11	<10
TLV	100	60	80	80



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

FUGITIVE DUST MONITORING DATA

COAL STOCK YARD: MYOF1		
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)	
	PM10	PM _{2.5}
DETECTION LIMIT	5	2
22-04-2020	84	40



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

Test Report
Air quality monitoring data

PIT OFFICE: MYON1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
09-04-2020	220
21-04-2020	208
TLV	600

PENZUNI VILLAGE : MYON2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-04-2020	98
21-04-2020	107
TLV	200

ASHTI VILLAGE: MYON3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
09-04-2020	96
21-04-2020	84
TLV	200

DANDGAON VILLAGE MYON4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
09-04-2020	88
22-04-2020	82
TLV	200

HIWARA MAJARA: MYON5	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
09-04-2020	105
22-04-2020	111
TLV	200

YEKONA VILLAGE: MYON6	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-04-2020	96
08-04-2020	91
14-04-2020	109
15-04-2020	92
20-04-2020	89
21-04-2020	101
28-04-2020	98
29-04-2020	103
TLV	200

WANOJA VILLAGE: MYON7	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-04-2020	112
08-04-2020	110
14-04-2020	106
15-04-2020	109
20-04-2020	105
21-04-2020	101
28-04-2020	109
29-04-2020	107
TLV	200

NAIDEO VILLAGE MYON8	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-04-2020	101
08-04-2020	104
14-04-2020	98
15-04-2020	90
20-04-2020	100
21-04-2020	102
28-04-2020	95
29-04-2020	97
TLV	200



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)

- | | |
|---|--|
| 1 | 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. |

FUGITIVE DUST MONITORING DATA


COAL STOCK YARD: MYOF1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
22-04-2020	123



SCIENTIFIC ASSISTANT

DEEPANSHU SAHU
MANAGER (ENV.)

- | | |
|---|--|
| 1 | 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. |

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	---

TSET REPORT NO.	RIN/TR/APRIL-20/W48	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	MAJRI AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	YEKONA I & II OC	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: MYOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
13-04-2020	7.3	22	28	<2
19-04-2020	7.6	24	32	<2
TLV	5.5 - 9.0	100	250	10



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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: MAJRI AREA
NAME OF PROJECT: YEKONA I& II OC

YEAR: 2020
MONTH: APRIL

PIT OFFICE: MYON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	08-04-2020	48.6	42.5
APRIL 2020	18-04-2020	55.3	54.2
TLV		55	45

PENZUNI VILLAGE : MYON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	08-04-2020	43.6	41.5
APRIL 2020	27-04-2020	43.5	42.4
TLV		55	45

ASHTI VILLAGE: MYON3			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	08-04-2020	42.5	41.3
APRIL 2020	27-04-2020	42.4	41.2
TLV		55	45

DANDGAON VILLAGE MYON4			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	08-04-2020	42.3	41.5
APRIL 2020	27-04-2020	42.2	41.3
TLV		55	45

HIWARA MAJARA: MYON5			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	08-04-2020	43.7	42.4
APRIL 2020	27-04-2020	43.6	42.3
TLV		55	45

YEKONA VILLAGE: MYON6			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	08-04-2020	43.2	42.6
APRIL 2020	18-04-2020	43.1	42.3
TLV		55	45

WANOJA VILLAGE: MYON7			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	08-04-2020	43.4	42.6
APRIL 2020	18-04-2020	43.3	42.1
TLV		55	45

NAIDEO VILLAGE MYON8			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	08-04-2020	43.2	42.5
APRIL 2020	18-04-2020	43.4	42.2
TLV		55	45

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

ADASA UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



APRIL-2020

Environment Laboratory
NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

INTRODUCTION

Adasa UG mine is situated in Nagpur District of Maharashtra State and is administered by the Nagpur area of the Western Coalfields Limited. The drainage of the project area is controlled by the easterly flowing Kolar and Chandrabhaga Rivers. The area has tropical climate. There are a few small industries near the town. There is no major industry, other than Saoner coal mines, near to the project. The state highway and road to Kalmeshwar, which is very busy due to vehicular movement, produce lot of dust. Transportation roads, agricultural and local activities, vehicular traffic etc also contributes to the pollution.

The above-mentioned industries are also expected to contribute in increasing the pollution load of the area. The air pollution due to working of the UG mine is insignificant.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	PROJECT MANAGER OFFICE:	NAUA1
2	AT PATHAKHEDI GP OFFICE :	NAUA2
3	COLONY WATER FILTER PLANT :	NAUA3
4	KOTODI VILLAGE :	NAUA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	NAUW1

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE:	NAUN1
2	MANAGER OFFICE:	NAUN2
3	COLONY (SAONER):	NAUN3

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	---

TSET REPORT NO.	RIN/TR/APRIL-20/A5	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NO _x (06:2006), SO ₂ (02:2001)] & PM-2.5		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	ADASA UG	SAMPLING PLAN	LQR 47

PROJECT MANAGER OFFICE: NAUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-04-2020	41	32	20	10
27-04-2020	42	33	20	<10
TLV	300	60	120	120

AT PATHAKHEDI GP OFFICE : NAUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-04-2020	51	14	9	<10
28-04-2020	53	15	9	<10
TLV	100	60	80	80

COLONY WATER FILTER PLANT : NAUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-04-2020	49	14	9	<10
27-04-2020	44	10	6	<10
TLV	100	60	80	80

KOTODI VILLAGE : NAUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-04-2020	55	15	9	<10
TLV	100	60	80	80

J. Shany

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

Test Report

Air quality monitoring data

PROJECT MANAGER OFFICE: NAUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-04-2020	95
27-04-2020	84
TLV	600

AT PATHAKHEDI GP OFFICE : NAUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-04-2020	69
28-04-2020	75
TLV	200

COLONY WATER FILTER PLANT : NAUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-04-2020	66
27-04-2020	68
TLV	200

KOTODI VILLAGE : NAUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-04-2020	74
TLV	200




SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)

- | | |
|---|--|
| 1 | 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. |

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	--

TSET REPORT NO.	RIN/TR/APRIL-20/W5	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD :	LSOP 5
NAME OF PROJECT	ADASA UG	SAMPLING PLAN :	LQR 47

MINE WATER DISCHARGE:NAUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
14-04-2020	8.1	36	26	<2
TLV	5.5 - 9.0	100	250	10

J. Shan

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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: NAGPUR AREA
NAME OF PROJECT: ADASA UG

YEAR: 2020
MONTH: APRIL

FAN HOUSE: NAUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	14-04-2020	69.4	68.6
APRIL 2020	16-04-2020	69.6	68.8
TLV		75	70

MANAGER OFFICE: NAUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	14-04-2020	54.2	53.4
APRIL 2020	16-04-2020	56.2	55.4
TLV		75	70

COLONY (SAONER): NAUN3			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	14-04-2020	42.6	41.5
APRIL 2020	16-04-2020	41.2	40.5
TLV		55	50

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

BHANEGAON OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL 2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

INTRODUCTION

The Bhanegaon opencast project is located in Nagpur district of Maharashtra state and administered by Nagpur area of Western Coalfields Ltd. Kanhan river acts as the main drainage channel of the area. The climate of the area is tropical. The above-mentioned industries are also expected to contribute in increasing the pollution load of the area. Transportation road, Vehicular traffic, Agricultural and local activities etc., also contribute to the pollution.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NEAR MANGER OFFICE:	NBOA1
2	BINA SANGAM TEMPLE:	NBOA2
3	BINA VILLAGE:	NBOA3
4	DORLI VILLAGE :	NBOA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	NBOW1

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CONTRACTOR CAMP:	NBON1

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--

TSET REPORT NO.	RIN/TR/APRIL-20/A9	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] &PM-2.5		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	BHANEAGAON OC	SAMPLING PLAN : LQR 47	

NEAR MANGER OFFICE: NBOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
03-04-2020	140	39	24	12
22-04-2020	138	38	23	12
TLV	300	60	120	120

BINA SANGAM TEMPLE: NBOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
03-04-2020	58	16	10	<10
22-04-2020	56	21	13	<10
TLV	100	60	80	80

BINA VILLAGE: NBOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
03-04-2020	62	17	11	<10
22-04-2020	55	16	10	<10
TLV	100	60	80	80

DORLI VILLAGE : NBOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
03-04-2020	76	21	13	<10
21-04-2020	58	24	15	<10
TLV	100	60	80	80

J. Shany
SCIENTIFIC ASSISTANT

Deepanshu Sahu
DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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.

Test Report

Air quality monitoring data

NEAR MANGER OFFICE: NBOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
03-04-2020	189
22-04-2020	186
TLV	600

BINA SANGAM TEMPLE: NBOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
03-04-2020	98
22-04-2020	81
TLV	200

BINA VILLAGE: NBOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
03-04-2020	84
22-04-2020	76
TLV	200


DORLI VILLAGE : NBOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
03-04-2020	103
21-04-2020	82
TLV	200

J. Shrivastava

SCIENTIFIC ASSISTANT

DEEPANSHU SAHU
MANAGER (ENV.)

- 1 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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	--

TSET REPORT NO.	RIN/TR/APRIL-20/W9	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD	LSOP 5
NAME OF PROJECT	BHANEGAON OC	SAMPLING PLAN	LQR 47

MINE WATER DISCHARGE: NBOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
03-04-2020	7.8	32	18	<2
22-04-2020	7.6	28	16	<2
TLV	5.5 - 9.0	100	250	10

J. Shrivastava
SCIENTIFIC ASSISTANT

Deepanshu Sahu
DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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: NAGPUR AREA
NAME OF PROJECT: BHANEGAON OC

YEAR: 2020
MONTH: APRIL

CONTRACTOR CAMP: NBON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	14-04-2020	54.3	53.7
APRIL 2020	21-04-2020	55.4	54.5
TLV		75	70

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

GONDEGAON OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL 2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

INTRODUCTION

The Silewara UG project is located in the Nagpur district of Maharashtra state and is administered by Nagpur Area of Western Coalfields Limited. The drainage of the area is controlled by Kolar river to the south and Kanhan river in the north. The climate of the area is tropical. The above-mentioned industries are also expected to contribute in increasing the pollution load of the area.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NEAR SUBSTATION:	NGOA1
2	GONDEGAON VILLAGE SCHOOL:	NGOA2
3	COLONY/GUEST HOUSE:	NGOA3
4	GHATRONHA VILLAGE:	NGOA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	W. BRIDGE	NGOF1

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	NGOW1
2	ETP DISCHARGE:	NGOW2

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP:	NGON1
2	COLONY:	NGON2
3	GHATROHNA VILLAGE	NGON3
4	JUNI KAMPTEE VILLAGE:	NGON4

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--

TSET REPORT NO.	RIN/TR/APRIL-20/A6	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] &PM-2.5		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	GONDEGAON OC	SAMPLING PLAN : LQR 47	

NEAR SUBSTATION: NGOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
03-04-2020	136	38	24	12
30-04-2020	128	34	21	10
TLV	300	60	120	120

GONDEGAON VILLAGE SCHOOL: NGOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
03-04-2020	42	12	7	<10
22-04-2020	40	11	7	<10
TLV	100	60	80	80

COLONY/GUEST HOUSE: NGOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
03-04-2020	45	13	8	<10
22-04-2020	43	14	9	<10
TLV	100	60	80	80

GHATRONHA VILLAGE: NGOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
03-04-2020	38	15	9	<10
30-04-2020	47	13	8	<10
TLV	100	60	80	80

J. Shan

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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.

Test Report

Air quality monitoring data

NEAR SUBSTATION: NGOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
03-04-2020	184
30-04-2020	178
TLV	600

GONDEGAON VILLAGE SCHOOL: NGOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
03-04-2020	57
22-04-2020	55
TLV	200

COLONY/GUEST HOUSE: NGOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
03-04-2020	61
22-04-2020	63
TLV	200

GHATRONHA VILLAGE: NGOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
03-04-2020	70
30-04-2020	66
TLV	200



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)

- 1 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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	--

TSET REPORT NO.	RIN/TR/APRIL-20/W6	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD	: LSOP 5
NAME OF PROJECT	GONDEGAON OC	SAMPLING PLAN	: LQR 47

MINE WATER DISCHARGE: NGOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
03-04-2020	7.4	36	26	<2
30-04-2020	7.8	24	18	<2
TLV	5.5 - 9.0	100	250	10

ETP DISCHARGE: NGOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
03-04-2020	7.6	24	14	<2
30-04-2020	7.7	32	26	<2
TLV	5.5 - 9.0	100	250	10

J. Shan
SCIENTIFIC ASSISTANT

Deepanshu Sahu
DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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: NAGPUR AREA
NAME OF PROJECT: GONDEGAON OC

YEAR: 2020
MONTH: APRIL

CHP: NGON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	14-04-2020	66.3	65.4
APRIL 2020	21-04-2020	67.4	66.6
TLV		75	70

COLONY: NGON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	14-04-2020	42.6	41.7
APRIL 2020	21-04-2020	43.6	42.7
TLV		55	45

GHATROHNA VILLAGE NGON3			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	14-04-2020	41.2	40.4
APRIL 2020	21-04-2020	42.4	41.6
TLV		55	45

JUNI KAMPTEE VILLAGE: NGON4			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	14-04-2020	42.3	41.5
APRIL 2020	21-04-2020	42.6	41.8
TLV		55	45

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

INDER UG TO OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL 2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

INTRODUCTION

Inder UG to OC Project is situated about 35 kms from Nagpur in Maharashtra State and is administered by the Nagpur Area of the Western Coalfields Limited. Kanhan river acts as the main drainage channel of the area. The climate of this area is tropical. The above-mentioned industries are also expected to contribute in increasing the pollution load of the area. The air pollution due to working of the UG mine is insignificant. Transportation road, Vehicular traffic, Agricultural and local activities etc., also contribute to the pollution load of the area.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NEAR PIT NO.6 / MANAGER OFFICE:	NIOA1
2	CMPDI TEKADI STORE:	NIOA2
3	COLONY WATER TREATMENT PLANT:	NIOA3
4	G.P. OFFICE KANDRI VILLAGE:	NIOA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	WEIGHT BRIDGE :	NIOF1
2	NEAR COAL STOCK- YARD:	NIOF2

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	NIOW1

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	R.C. OFFICE:	NION1

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--

TSET REPORT NO.	RIN/TR/APRIL-20/A8	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] &PM-2.5		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	INDER UG TO OC	SAMPLING PLAN : LQR 47	

NEAR PIT NO.6 / MANAGER OFFICE: NIOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-04-2020	133	37	23	12
29-04-2020	130	35	21	11
TLV	300	60	120	120

CMPDI TEKADI STORE: NIOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-04-2020	85	43	27	14
29-04-2020	86	34	21	16
TLV	300	60	120	120

COLONY WATER TREATMENT PLANT: NIOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
03-04-2020	76	21	13	<10
30-04-2020	72	20	12	<10
TLV	100	60	80	80

G.P. OFFICE KANDRI VILLAGE: NIOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
03-04-2020	62	17	11	<10
29-04-2020	58	16	10	<10
TLV	100	60	80	80

J. Shan

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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.

TEST REPORT**Air quality monitoring data**

NEAR PIT NO.6 / MANAGER OFFICE:NIOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-04-2020	180
29-04-2020	178
TLV	600

CMPDI TEKADI STORE:NIOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-04-2020	125
29-04-2020	109
TLV	600

COLONY WATER TREATMENT PLANT:NIOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
03-04-2020	103
30-04-2020	98
TLV	200


G.P. OFFICE KANDRI VILLAGE:NIOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
03-04-2020	84
29-04-2020	78
TLV	200



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
MANAGER(ENV.)

- | | |
|---|--|
| 1 | 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. |

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	--

TSET REPORT NO.	RIN/TR/APRIL-20/W8	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	WCL, NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD	LSOP 5
NAME OF PROJECT	INDER UG TO OC	SAMPLING PLAN	LQR 47

MINE WATER DISCHARGE: NIOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
03-04-2020	8.2	32	24	<2
29-04-2020	8.3	36	24	<2
TLV	5.5 - 9.0	100	250	10

J. Shrivastava
SCIENTIFIC ASSISTANT

Deepanshu Sahu
DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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: NAGPUR AREA
NAME OF PROJECT: INDER UG TO OC

YEAR: 2020
MONTH: APRIL

R.C. OFFICE: NION1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	14-04-2020	55.2	54.5
APRIL 2020	21-04-2020	56.2	55.3
TLV		75	70

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

KAMPTEE DEEP OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL 2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 7
3	WATER QUALITY MONITORING DATA	8
4	NOISE LEVEL DATA	9

INTRODUCTION

The Kamptee UG to OC Project is located in Nagpur district of Maharashtra state and administered by Nagpur area of Western Coalfields Ltd. The climate of the area is tropical. The above-mentioned industries are also expected to contribute in increasing the pollution load of the area.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	SUBSTATION KAMPTEE :	NKCA1
2	JUNI KAMPTEE VILLAGE:	NKCA2
3	COLONY WATER TREATMENT PALNT:	NKCA3
4	G.P. OFFICE KANDRI VILLAGE:	NKCA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP	NKCF1
2	RLY. SIDING	NKCF2

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	NKCW1

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP:	NKCN1
2	COLONY:	NKCN2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--

TSET REPORT NO.	RIN/TR/APRIL-20/A7	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/346-348 DATED: 13.4.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NO _x (06:2006), SO ₂ (02:2001)] &PM-2.5		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD :	LSOP 4
NAME OF PROJECT	KAMPTEE DEEP OC	SAMPLING PLAN :	LQR 47

SUBSTATION KAMPTEE : NKCA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-04-2020	62	29	18	<10
29-04-2020	71	34	21	16
TLV	300	60	120	120

COLONY WATER TREATMENT PALNT: NKCA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
03-04-2020	76	21	13	<10
30-04-2020	72	20	12	<10
TLV	100	60	80	80

G.P. OFFICE KANDRI VILLAGE: NKCA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
03-04-2020	62	17	11	<10
29-04-2020	58	16	10	<10
TLV	100	60	80	80

J. Shan

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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.

TEST REPORT
Air quality monitoring data

SUBSTATION KAMPTEE :NKCA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-04-2020	109
29-04-2020	126
TLV	600

COLONY WATER TREATMENT PALNT:NKCA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
03-04-2020	103
30-04-2020	98
TLV	200

G.P. OFFICE KANDRI VILLAGE:NKCA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
03-04-2020	84
29-04-2020	78
TLV	200

J. Shan

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
MANAGER(ENV.)

- | | |
|---|--|
| 1 | 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. |

FUGITIVE DUST MONITORING DATA

CHP NKCF1		
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)	
	PM10	PM _{2.5}
DETECTION LIMIT	5	2
11-04-2020	188	46



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

FUGITIVE DUST MONITORING DATA

CHP NKCF1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-04-2020	279



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	--

TSET REPORT NO.	RIN/TR/APRIL-20/W7	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/346-348 DATED: 13.4.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD	LSOP 5
NAME OF PROJECT	KAMPTEE DEEP OC	SAMPLING PLAN	LQR 47

MINE WATER DISCHARGE: NKCW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
03-04-2020	7.8	28	18	<2
30-04-2020	7.9	28	16	<2
TLV	5.5 - 9.0	100	250	10

J. Shan
SCIENTIFIC ASSISTANT

Deepanshu Sahu
DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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: NAGPUR AREA **YEAR: 2020**
NAME OF PROJECT: KAMPTEE DEEP OC **MONTH: APRIL**

CHP: NKC1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	14-04-2020	67.2	66.4
APRIL 2020	21-04-2020	67.8	65.9
TLV		75	70

COLONY: NKC2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	14-04-2020	42.2	41.6
APRIL 2020	21-04-2020	42.6	41.7
TLV		55	45

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

PATANSAONGI UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



APRIL 2020

Environment Laboratory
NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

INTRODUCTION

Patansaongi UG project is located in Nagpur district of Maharashtra state and is administered by Nagpur area of Western Coalfields Limited. The drainage of the area is controlled by Kolar river. The climate of the area is tropical. State highway is adjacent to the project. State highway and Khaparkheda Thermal Power Station are also expected to contribute in increasing the air pollution load of the area. The air pollution due to working of the UG mine is insignificant. Transportation road, Vehicular traffic, Agricultural and local activities etc., also contribute to the pollution load of the area.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	COLLIERY MANGER OFFICE:	NPTUA1
2	SADBHAVAN NAGAR (FILTER PLANT):	NPTUA2
3	NEAR LCH QR.:	NPTUA3

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	NPTUW1

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE:	NPTUN1
2	COLONY:	NPTUN2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR		Test Report Air quality monitoring data		 TC-7102
TSET REPORT NO.	RIN/TR/APRIL-20/A3	DATE OF ISSUE	23.05.2020	
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE	
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/346-348 DATED: 13.04.20			
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] &PM-2.5			
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD :	LSOP 4	
NAME OF PROJECT	PATANSAONGI UG	SAMPLING PLAN :	LQR 47	

COLLIERY MANGER OFFICE: NPTUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-04-2020	51	26	16	<10
28-04-2020	48	23	14	<10
TLV	300	60	120	120

SADBHAVAN NAGAR (FILTER PLANT): NPTUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-04-2020	32	13	8	<10
16-04-2020	42	14	8	<10
TLV	100	60	80	80

NEAR LCH QR.: NPTUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-04-2020	31	12	7	<10
16-04-2020	46	14	8	<10
TLV	100	60	80	80

SAVARMENDHA VILLAGE.: NPTUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-04-2020	40	11	7	<10
16-04-2020	38	13	8	<10
TLV	100	60	80	80

J. Shan
SCIENTIFIC ASSISTANT

Deepanshu Sahu
DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

Test Report
Air quality monitoring data

COLLIERY MANGER OFFICE:NTPUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-04-2020	105
28-04-2020	112
TLV	600

SADBHAVAN NAGAR (FILTER PLANT):NTPUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-04-2020	46
16-04-2020	63
TLV	200


NEAR LCH QR.:NTPUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-04-2020	49
16-04-2020	65
TLV	200

SAVARMENDHA VILLAGE.:NTPUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-04-2020	54
16-04-2020	56
TLV	200

J. Shrivastava
SCIENTIFIC ASSISTANT

Deepanshu Sahu
DEEPANSHU SAHU
MANAGER(ENV.)

- | | |
|---|--|
| 1 | 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. |

Environment Laboratory CMPDI RI-IV, NAGPUR		Test Report Effluent water quality monitoring data		 TC-7102	
TSET REPORT NO.	RIN/TR/APRIL-20/W3	DATE OF ISSUE	23.05.2020		
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/346-348 DATED: 13.04.20				
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991				
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD : LSOP 5			
NAME OF PROJECT	PATANSAONGI UG	SAMPLING PLAN : LQR 47			

MINE WATER DISCHARGE: NPTUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
14-04-2020	7.5	24	14	<2
17-04-2020	8.3	32	22	<2
TLV	5.5 - 9.0	100	250	10

J. Shany
SCIENTIFIC ASSISTANT

Deepanshu Sahu
DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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: NAGPUR AREA **YEAR: 2020**
NAME OF PROJECT: PATANSAONGI UG **MONTH: APRIL**

FAN HOUSE: NPTUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	14-04-2020	67.6	67.8
APRIL 2020	16-04-2020	67.2	66.7
TLV		75	70

COLONY: NPTUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	14-04-2020	42.6	41.7
APRIL 2020	16-04-2020	42.2	41.4
TLV		55	45

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

PIPLA UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL 2020

Environment Laboratory
NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
4	NOISE LEVEL DATA	6

INTRODUCTION

Pipla Colliery is situated in the West of Silewara Colliery in Nagpur District of Maharashtra State. It is under the administrative control of Nagpur Area of Western Coalfields Limited. The drainage of the area is principally controlled by Kolar-Pimpri river in the South and Kanhan river in the North. There are a number of small seasonal nallahs which traverse over the area and discharge the water during rainy season into these two rivers. The climate of this area is tropica Nagpur - Chhindwara State highway is about 2 kms from the project. Road traffic is also likely to contribute to the air pollution in the surrounding area.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NEAR MAGZINE / MANAGER OFFICE:	NPUA1
2	IN ZONE- 4:	NPUA2
3	FILTER PLANT:	NPUA3
4	SHIV MANDIR:	NPUA4

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE:	NPUN1

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	---

TSET REPORT NO.	RIN/TR/APRIL-20/A2	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] &PM-2.5		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	PIPLA UG	SAMPLING PLAN	LQR 47

NEAR MAGZINE / MANAGER OFFICE: NPUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-04-2020	54	3	22	11
16-04-2020	41	31	19	<10
TLV	300	60	120	120

IN ZONE- 4: NPUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-04-2020	43	31	19	10
17-04-2020	46	26	16	<10
TLV	300	60	120	120

FILTER PLANT: NPUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-04-2020	54	15	9	<10
17-04-2020	52	17	10	<10
TLV	100	60	80	80

SHIV MANDIR: NPUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-04-2020	32	15	9	<10
17-04-2020	35	16	10	<10
TLV	100	60	80	80

J. Shany

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

Test Report

Air quality monitoring data

NEAR MAGZINE / MANAGER OFFICE: NPUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-04-2020	112
16-04-2020	107
TLV	600

IN ZONE- 4: NPUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-04-2020	82
17-04-2020	102
TLV	600

FILTER PLANT: NPUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-04-2020	73
17-04-2020	72
TLV	200

SHIV MANDIR: NPUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-04-2020	62
17-04-2020	76
TLV	200



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)

- | | |
|---|--|
| 1 | 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: NAGPUR AREA
NAME OF PROJECT: PIPLA UG

YEAR: 2020
MONTH: APRIL

FAN HOUSE: NPUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	14-04-2020	66.2	65.5
APRIL 2020	16-04-2020	67.2	67.4
TLV		75	70

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

SAONER UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL-20

Environment Laboratory
NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 7
3	WATER QUALITY MONITORING DATA	8
4	NOISE LEVEL DATA	9

INTRODUCTION

SaonerUG mine is situated in Nagpur District of Maharashtra State and is administered by the Nagpur area of the Western Coalfields Limited. There are three projects - Saoner-I UG, Saoner -II UG and Saoner -III UG. The drainage is principally controlled by Kolar river. The area has tropical climate. The above-mentioned industries are also expected to contribute in increasing the pollution load of the area. The air pollution due to working of the UG mine is insignificant.

Sampling Location:**Ambient Air Quality Monitoring locations:**

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	C.M. OFFICE - SAONER - I UG :	NSNUA3
2	C.M. OFFICE - SAONER - II UG :	NSNUA2
3	COLONY WATER FILTER PLANT:	NSNUA3
4	KOTODI VILLAGE :	NSNUA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP:	NSNUF1
2	RLY. SIDING:	NSNUF2

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE I UG:	NSNUW1
2	MINE WATER DISCHARGE II UG:	NSNUW2
3	MINE WATER DISCHARGE III UG:	NSNUW3

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE I UG:	NSNUN1
2	FAN HOUSE II UG:	NSNUN2
3	FAN HOUSE III UG:	NSNUN3
4	COLONY:	NSNUN4

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data		 TC-7102

TSET REPORT NO.	RI/IV/APRIL-20/A4	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	TRC/CHQ/ENV/14-13346-38 DATED: 13.2.20		
TEST REQUIRED	[S-5182 (PM-10)(04-1999), N(06-2006), SO2(02-2001)] & PM-2.5		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD	ISOP 4
NAME OF PROJECT	SAONER UG	SAMPLING PLAN	LGR 47

C.M. OFFICE - SAONER - I UG : NSNUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-04-2020	42	35	22	11
27-04-2020	45	36	22	11
TLV	300	60	120	120

C.M. OFFICE - SAONER - II UG : NSNUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-04-2020	45	32	20	10
27-04-2020	40	28	17	<10
TLV	300	60	120	120

COLONY WATER FILTER PLANT : NSNUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-04-2020	49	14	9	<10
27-04-2020	48	10	6	<10
TLV	100	60	80	80

KOTODI VILLAGE : NSNUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-04-2020	55	15	9	<10
27-04-2020	100	60	80	80

J. Shetty
SCIENTIFIC ASSISTANT

Deepanshu Sahu
DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- 1 This Report refers to the values indicated in the items tested.
- 2 This Report cannot be reproduced in part or full without written permission of the management.

Test Report
Air quality monitoring data

C.M. OFFICE - SAONER - I UG : NSNUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-04-2020	78
27-04-2020	87
TLV	600

C.M. OFFICE - SAONER - II UG : NSNUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-04-2020	84
27-04-2020	73
TLV	600

COLONY WATER FILTER PLANT: NSNUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-04-2020	66
27-04-2020	68
TLV	200

KOTODI VILLAGE : NSNUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-04-2020	74
27-04-2020	200

J. Shyng
SCIENTIFIC ASSISTANT

Deepanshu Sahu
DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1 This Report refers to the values indicated in the items listed.
2 This Report cannot be reproduced in part or full without written permission of the management.

FUGITIVE DUST MONITORING DATA

GHP: NSNUP1		
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)	
	PM10	PM2.5
STATION/UNIT	5	7
27-04-2020	170	52



SCIENTIFIC ASSISTANT

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- 1 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.

FUGITIVE DUST MONITORING DATA

CHP: NSNUF1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)
27-04-2020	SPM
	230

J. Choug
SCIENTIFIC ASSISTANT

Deepanshu Sahu
DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- 1 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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
--	---	--

TEST REPORT NO.	BSN/TR/APRIL-20/W4	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	CS/ENV/1/WCL/UG, NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/346-348 DATED: 13.4.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD	ISOP 5
NAME OF PROJECT	SANGER UG	SAMPLING PLAN	LGR-47

MINE WATER DISCHARGE I UG: NSNUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	CO ₂ (in mg/l)	O & S(in mg/l)
DETECTION LIMIT	0.2	10	4	2
15-04-2020	7.4	24	14	<2
27-04-2020	7.3	28	18	<2
TLV	5.5 - 9.0	100	250	10

MINE WATER DISCHARGE II UG: NSNUW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	CO ₂ (in mg/l)	O & S(in mg/l)
DETECTION LIMIT	0.2	10	4	2
15-04-2020	8.2	28	16	<2
27-04-2020	8.1	24	14	<2
TLV	5.5 - 9.0	100	250	10

MINE WATER DISCHARGE III UG: NSNUW3				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	CO ₂ (in mg/l)	O & S(in mg/l)
DETECTION LIMIT	0.2	4	10	2
15-04-2020	7.6	32	22	<2
27-04-2020	7.5	36	26	<2
TLV	5.5 - 9.0	100	250	10

J. Choug
SCIENTIFIC ASSISTANT

Deepanshu Sahu
DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- 1 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: NAGPUR AREA YEAR: 2020
 NAME OF PROJECT: SAONER UG MONTH: APRIL

FAN HOUSE I UG: NSNUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	14-04-2020	69.6	68.7
APRIL 2020	16-04-2020	69.2	67.9
	TLV	75	70

FAN HOUSE II UG: NSNUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	14-04-2020	68.4	66.8
APRIL 2020	16-04-2020	69.2	69.6
	TLV	75	70

FAN HOUSE III UG: NSNUN3			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	14-04-2020	69.5	68.6
APRIL 2020	16-04-2020	69.4	69.8
	TLV	75	70

COLONY: NSNUN4			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	14-04-2020	42.6	41.5
APRIL 2020	16-04-2020	41.2	40.5
	TLV	55	45

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

SILEWARA UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL 2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

INTRODUCTION

The Silewara UG project is located in the Nagpur district of Maharashtra state and is administered by Nagpur Area of Western Coalfields Limited. The drainage of the area is controlled by Kolar river to the south and Kanhan river in the north. The climate of the area is tropical. The above-mentioned industries are also expected to contribute in increasing the pollution load of the area.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	WATER FILTER FLANT:	NSUA1
2	V.T.C. SILEWARA:	NSUA2
3	MANDIR NEAR KANHAN RIVER:	NSUA3
4	CHANKAPUR PUMP HOUSE/ COLONY:	NSUA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	NSUW1

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE:	NSUN1
2	COLONY:	NSUN2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--

TSET REPORT NO.	RIN/TR/APRIL-20/A1	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] &PM-2.5		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	SILEWARA UG	SAMPLING PLAN	LQR 47

WATER FILTER FLANT: NSUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-04-2020	41	28	17	<10
17-04-2020	47	33	20	<10
TLV	300	60	120	120

V.T.C. SILEWARA: NSUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-04-2020	42	27	17	<10
20-04-2020	45	29	17	<10
TLV	300	60	120	120

MANDIR NEAR KANHAN RIVER: NSUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
20-04-2020	47	13	8	<10
TLV	100	60	80	80

CHANKAPUR PUMP HOUSE/ COLONY: NSUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
20-04-2020	49	14	9	<10
TLV	100	60	80	80

J. Shan

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	This Report refers to the values related to the items tested
3	* Test parameter not under NABL scope.

Test Report

Air quality monitoring data

WATER FILTER FLANT: NSUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-04-2020	95
17-04-2020	110
TLV	600

V.T.C. SILEWARA: NSUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-04-2020	112
20-04-2020	127
TLV	600

MANDIR NEAR KANHAN RIVER: NSUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
20-04-2020	82
TLV	200

CHANKAPUR PUMP HOUSE/ COLONY: NSUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
20-04-2020	66
TLV	200


J. Shrivastava

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
MANAGER (ENV.)


1 This Report refers to the values related to the items tested
 3 * Test parameter not under NABL scope.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	--

TSET REPORT NO.	RIN/TR/APRIL-20/W1	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD	LSOP 5
NAME OF PROJECT	SILEWARA UG	SAMPLING PLAN	LQR 47

MINE WATER DISCHARGE: NSUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
13-04-2020	7.2	28	18	<2
17-04-2020	7.7	28	18	<2
TLV	5.5 - 9.0	100	250	10


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

1	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: NAGPUR AREA **YEAR: 2020**
NAME OF PROJECT: SILEWARA UG **MONTH: APRIL**

FAN HOUSE: NSUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	14-04-2020	69.2	68.4
APRIL 2020	16-04-2020	69.3	68.5
TLV		75	70

COLONY: NSUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	14-04-2020	42.3	41.6
APRIL 2020	16-04-2020	42.4	41.2
TLV		55	45

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

SINGORI OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



APRIL-20



Environment Laboratory
NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY



INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

INTRODUCTION

Singori OC mine is situated in Nagpur District of Maharashtra State and is administered by the Nagpur area of the Western Coalfields Limited. The drainage is principally controlled by Kolar river. The area has tropical climate. The above-mentioned industries are also expected to contribute in increasing the pollution load of the area. The air pollution due to working of the UG mine is insignificant.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CONTRACTOR CAMP:	NSOA1
2	SOHOLI VILLAGE :	NSOA2
3	HINGNA VILLAGE:	NSOA3
4	DORLI VILLAGE:	NSOA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NEAR COAL STOCK YARD:	NSOF1
2	WEIGHT BRIDGE:	NSOF2

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	NSOW1

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CONTRACTOR CAMP:	NSON1
2	SOHOLI VILLAGE :	NSON2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--

TSET REPORT NO.	RIN/TR/APRIL-20/A10	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] &PM-2.5		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD :	LSOP 5
NAME OF PROJECT	SINGORI OC	SAMPLING PLAN :	LQR 47

CONTRACTOR CAMP: NSOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
03-04-2020	27	21	13	<10
21-04-2020	34	25	15	<10
TLV	300	60	120	120

SOHOLI VILLAGE : NSOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
20-04-2020	55	15	9	<10
TLV	100	60	80	80

HINGNA VILLAGE: NSOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
21-04-2020	52	14	9	<10
TLV	100	60	80	80

DORLI VILLAGE: NSOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
03-04-2020	76	21	13	<10
21-04-2020	58	24	15	<10
TLV	100	60	80	80

J. Shan

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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.

Test Report

Air quality monitoring data

CONTRACTOR CAMP: NSOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
03-04-2020	71
21-04-2020	88
TLV	600

SOHOLI VILLAGE : NSOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
20-04-2020	74
TLV	200

HINGNA VILLAGE: NSOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
21-04-2020	68
TLV	200

DORLI VILLAGE: NSOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
03-04-2020	103
21-04-2020	82
TLV	200

J. Shany

SCIENTIFIC ASSISTANT

Deepanshu

DEEPANSHU SAHU
MANAGER (ENV.)


- 1 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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	--

TSET REPORT NO.	RIN/TR/APRIL-20/W10	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	SINGORI OC	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: NSOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
14-04-2020	7.6	36	22	<2
21-04-2020	7.5	24	14	<2
TLV	5.5 - 9.0	100	250	10


 J. Shrivastava
 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

1	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: NAGPUR AREA
NAME OF PROJECT: SINGORI OC

YEAR: 2020
MONTH: APRIL

CONTRACTOR CAMP: NSON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	14-04-2020	55.4	54.5
APRIL 2020	21-04-2020	54.2	53.6
TLV		75	70

SOHOLI VILLAGE : NSON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	14-04-2020	42.4	41.5
APRIL 2020	21-04-2020	42.4	41.6
TLV		55	45

DRILLING SITE : NSON3			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	11-04-2020	51.5	42.6
APRIL 2020	21-04-2020	53.4	41.8
TLV		55	45

DOSING SITE : NSON4			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	11-04-2020	52.6	42.7
APRIL 2020	21-04-2020	53.2	43.2
TLV		55	45

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

DINESH OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL 2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

INTRODUCTION

The Dinesh/ Makardhokra- III OC project is located in Nagpur district of Maharashtra State and is administered by the Umrer area of Western Coalfields Limited. The drainage of the area is controlled by Amb river which flows in the east of the area. The climate of the area is generally dry and hot. As there is no other major industry nearby the project area, only road transport is the other source, which contribute to the air pollution.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER OFFICE:	UM3OA1
2	NEAR RLY. WEIGHT BRIDGE:	UM3OA2
3	WELSAKRA VILLAGE :	UM3OA3
4	PIPARDOL VILLAGE:	UM3OA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	UM3OW1
2	ETP (WORKSHOP):	UM3OW2

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NEAR PIT OFFICE:	UM3ON1

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--

TSET REPORT NO.	RIN/TR/APRIL-20/A14	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	UMRER AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	DINESH OC	SAMPLING PLAN : LQR 47	

MANAGER OFFICE: UM30A1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-04-2020	138	39	21	10
25-04-2020	118	33	19	<10
TLV	300	60	120	120

NEAR RLY. WEIGHT BRIDGE: UM30A2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-04-2020	86	38	21	10
27-04-2020	95	42	23	12
TLV	300	60	120	120

PIPARDOL VILLAGE: UM30A4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
24-04-2020	89	25	14	<10
TLV	100	60	80	80

R. Annapurna

SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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.

Test Report

Air quality monitoring data

MANAGER OFFICE: UM30A1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-04-2020	186
25-04-2020	159
TLV	600

NEAR RLY. WEIGHT BRIDGE: UM30A2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-04-2020	114
27-04-2020	137
TLV	600

PIPARDOL VILLAGE: UM30A4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
24-04-2020	120
TLV	200


R. Annapurna

SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)

- 1 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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	--

TSET REPORT NO.	RIN/TR/APRIL-20/W14	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	UMRER AREA	SAMPLING METHOD	LSOP 5
NAME OF PROJECT	DINESH OC	SAMPLING PLAN	LQR 47

MINE WATER DISCHARGE: UM3OW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
08-04-2020	7.3	22	32	<2
25-04-2020	7.2	20	32	<2
TLV	5.5 - 9.0	100	250	10

ETP (WORKSHOP): UM3OW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
25-04-2020	7.4	26	36	<2
TLV	5.5 - 9.0	100	250	10

R. Annapurna

SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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: UMRER AREA
NAME OF PROJECT: DINESH OC

YEAR: 2020
MONTH: APRIL

NEAR PIT OFFICE: UM3ON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	11-04-2020	54.4	53.7
APRIL 2020	25-04-2020	55.2	54.6
TLV		75	70

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

GOKUL OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



APRIL 2020

Environment Laboratory
NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 6
3	WATER QUALITY MONITORING DATA	7
4	NOISE LEVEL DATA	8

INTRODUCTION

The Gokul OC project is located in Nagpur district of Maharashtra State and is administered by the Umrer area of Western Coalfields Limited. The drainage of the area is controlled by Amb river which flows in the east of the area. The climate of the area is generally dry and hot. As there is no other major industry nearby the project area, only road transport is the other source, which may contribute to the air pollution.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CONTRACTOR CAMP:	UGOA1
2	BESUR VILLAGE :	UGOA2
3	NAND VILLAGE:	UGOA3
4	POLGAON VILLAGE :	UGOA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	UGOW1
2	ETP (WORKSHOP):	UGOW2

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CONTRACTOR CAMP:	UGON1

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--

TSET REPORT NO.	RIN/TR/APRIL-20/A14	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NO _x (06:2006), SO ₂ (02:2001)] & PM-2.5		
NAME OF AREA	UMRER AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	GOKUL OC	SAMPLING PLAN	LQR 47

CONTRACTOR CAMP: UGOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
02-04-2020	44	15	8	<10
23-04-2020	43	12	7	<10
TLV	300	60	120	120

BESUR VILLAGE : UGOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
02-04-2020	51	15	8	<10
03-04-2020	45	14	9	<10
06-04-2020	43	11	<6	<10
07-04-2020	41	12	<6	<10
23-04-2020	46	13	7	<10
24-04-2020	42	13	<6	<10
27-04-2020	48	12	<6	<10
30-04-2020	47	14	8	<10
TLV	100	60	80	80

NAND VILLAGE: UGOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
02-04-2020	55	16	9	<10
03-04-2020	41	17	11	<10
06-04-2020	45	17	12	<10
07-04-2020	39	18	10	<10
23-04-2020	21	12	7	<10
24-04-2020	37	15	<6	<10
27-04-2020	32	14	<6	<10
30-04-2020	35	17	8	<10
TLV	100	60	80	80

POLGAON VILLAGE : UGOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
02-04-2020	54	15	8	<10
03-04-2020	50	13	<6	<10
06-04-2020	43	14	7	<10
07-04-2020	47	16	8	<10
23-04-2020	41	15	9	<10
24-04-2020	42	14	<6	<10
27-04-2020	44	17	8	<10
30-04-2020	51	16	<6	<10
TLV	100	60	80	80

R. Annapurna

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

Test Report

Air quality monitoring data

CONTRACTOR CAMP: UGOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
02-04-2020	79
23-04-2020	58
TLV	600

BESUR VILLAGE : UGOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
02-04-2020	69
03-04-2020	63
06-04-2020	72
07-04-2020	74
23-04-2020	54
24-04-2020	66
27-04-2020	71
30-04-2020	68
TLV	200

NAND VILLAGE: UGOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
02-04-2020	74
03-04-2020	84
06-04-2020	81
07-04-2020	78
23-04-2020	71
24-04-2020	90
27-04-2020	86
30-04-2020	83
TLV	200

POLGAON VILLAGE : UGOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
02-04-2020	73
03-04-2020	84
06-04-2020	95
07-04-2020	77
23-04-2020	63
24-04-2020	81
27-04-2020	79
30-04-2020	62
TLV	200

R. Annapurna

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
MANAGER (ENV.)

- | | |
|---|--|
| 1 | 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. |

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	---

TSET REPORT NO.	RIN/TR/APRIL-20/A14	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	UMRER AREA	SAMPLING METHOD :	LSOP 5
NAME OF PROJECT	GOKUL OC	SAMPLING PLAN :	LQR 47

MINE WATER DISCHARGE: UGOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
02-04-2020	7.3	26	44	<2
23-04-2020	7.2	24	40	<2
TLV	5.5 - 9.0	100	250	10

ETP (WORKSHOP): UGOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
02-04-2020	7.4	28	48	<2
23-04-2020	7.3	26	44	<2
TLV	5.5 - 9.0	100	250	10

R. Annapurna

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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: UMRER AREA
NAME OF PROJECT: GOKUL OC

YEAR: 2020
MONTH: APRIL

CONTRACTOR CAMP: UGON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	11-04-2020	56.2	54.6
APRIL 2020	25-04-2020	55.6	54.8
TLV		75	70

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

MAKARDHOKRA- II OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



APRIL-2020



Environment Laboratory
NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY



INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

INTRODUCTION

The Makardhokra- II OC project is located in Nagpur district of Maharashtra State and is administered by the Umrer area of Western Coalfields Limite.The drainage of the area is controlled by Amb river which flows in the east of the area. The climate of the area is generally dry and hot.As there is no other major industry nearby the project area, only road transport is the other source, which JUNE contribute to the air pollution.

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NEAR MANAGER OFFICE:	UMOA1
2	SAM OFFICE:	UMOA2
3	KANWA VILLAGE :	UMOA3
4	NEAR PUMP HOUSE COLONY:	UMOA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	UMOW1
2	ETP DISCHARGE:	UMOW2

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NEAR PIT OFFICE:	UMON1
2	COLONY (UMRER OC):	UMON2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	---

TSET REPORT NO.	RIN/TR/APRIL-20/A12	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] &PM-2.5		
NAME OF AREA	UMRER AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	MAKARDHOKRA- II OC	SAMPLING PLAN : LQR 47	

NEAR MANAGER OFFICE: UMOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
09-04-2020	84	34	21	11
26-04-2020	102	29	17	<10
TLV	300	60	120	120

SAM OFFICE: UMOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
09-04-2020	42	32	18	<10
26-04-2020	83	29	17	<10
TLV	300	60	120	120

KANWA VILLAGE : UMOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
10-04-2020	43	12	7	<10
28-04-2020	54	15	9	<10
TLV	100	60	80	80

NEAR PUMP HOUSE COLONY: UMOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
09-04-2020	47	13	7	<10
26-04-2020	44	12	7	<10
TLV	100	60	80	80

R. Annapurna

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

Test Report

Air quality monitoring data

NEAR MANAGER OFFICE: UMOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
09-04-2020	125
26-04-2020	138
TLV	600

SAM OFFICE: UMOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
09-04-2020	94
26-04-2020	139
TLV	600

KANWA VILLAGE : UMOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
10-04-2020	58
28-04-2020	78
TLV	200

NEAR PUMP HOUSE COLONY: UMOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
09-04-2020	63
26-04-2020	59
TLV	200


R. Annapurna

SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)

- 1 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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	---

TSET REPORT NO.	RIN/TR/APRIL-20/W12	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	UMRER AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	MAKARDHOKRA- II OC	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: UMOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
10-04-2020	7.2	22	36	<2
TLV	5.5 - 9.0	100	250	10

ETP DISCHARGE: UMOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
10-04-2020	7.3	24	36	<2
28-04-2020	7.2	22	32	<2
TLV	5.5 - 9.0	100	250	10

R. Annapurna

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

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

MAKARDHOKHRA- I OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL 2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

INTRODUCTION

Umrer opencast project falls in the Nagpur district of Maharashtra state and is administered by Umrer Area of Western Coalfields Limited. The drainage of the area is controlled by Amb river. The climate of the area is tropical. The state highway roads which are adjacent to the project produce lot of dust due to heavy vehicular traffic.

Sampling Location:**Ambient Air Quality Monitoring locations:**

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	PIT OFFICE:	UM1OA1
2	KALMANA VILLAGE:	UM1OA2
3	KHURSAPAR VILLAGE :	UM1OA3
4	SIRPUR VILLAGE :	UM1OA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	UM1OW1

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NEAR PIT OFFICE:	UM1ON1

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--

TSET REPORT NO.	RIN/TR/APRIL-20/A13	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	UMRER AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	MAKARDHOKHRA- I OC	SAMPLING PLAN : LQR 47	

PIT OFFICE: UM10A1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
09-04-2020	92	34	19	<10
25-04-2020	92	26	15	<10
TLV	300	60	120	120

SIRPUR VILLAGE : UM10A4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-04-2020	50	14	8	<10
25-04-2020	48	13	8	<10
TLV	100	60	80	80

R. Annapurna

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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.

Test Report

Air quality monitoring data

PIT OFFICE: UM10A1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
09-04-2020	145
25-04-2020	124
TLV	600

SIRPUR VILLAGE : UM10A4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-04-2020	67
25-04-2020	65
TLV	200

R. Annapurna

SCIENTIFIC ASSISTANT

DEEPANSHU SAHU
MANAGER (ENV.)

- 1 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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	---

TSET REPORT NO.	RIN/TR/APRIL-20/W13	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	UMRER AREA	SAMPLING METHOD	LSOP 5
NAME OF PROJECT	MAKARDHOKHRA- I OC	SAMPLING PLAN	LQR 47

MINE WATER DISCHARGE: UM10W1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
09-04-2020	7.3	24	40	<2
26-04-2020	7.3	24	36	<2
TLV	5.5 - 9.0	100	250	10

ETP: UM10A4				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
09-04-2020	7.4	26	40	<2
TLV	5.5 - 9.0	100	250	10

R. Annapurna

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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: UMRER AREA **YEAR: 2020**
NAME OF PROJECT: MAKARDHOKHRA- I OC **MONTH: APRIL**

NEAR PIT OFFICE: UM10N1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	11-04-2020	56.4	55.6
APRIL 2020	25-04-2020	55.4	54.7
TLV		75	70

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

MURPAR UG

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL 2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

INTRODUCTION

Murpar Underground Project is located in Chandrapur district of Maharashtra State and is administered by Umrer Area of Western Coalfields Limited. Drainage of the area is controlled by Gani nalla, which flows through central part of the project area. The climate of the area is tropical. As there is no other major industry nearby the project area, only road transport is the other source, which JUNE contribute to the air pollution.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NEAR PIT OFFICE:	UMUA1
2	NEAR MAGAZINE BUILDING:	UMUA2
3	COLONY :	UMUA3
4	MORPAR VILLAGE :	UMUA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	UMUW1

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE:	UMUN1
2	COLONY:	UMUN2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--

TSET REPORT NO.	RIN/TR/APRIL-20/A15	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] &PM-2.5		
NAME OF AREA	UMRER AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	MURPAR UG	SAMPLING PLAN : LQR 47	

NEAR PIT OFFICE: UMUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-04-2020	53	36	20	10
16-04-2020	58	16	9	<10
TLV	300	60	120	120

NEAR MAGAZINE BUILDING: UMUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-04-2020	77	33	18	9
16-04-2020	62	17	10	<10
TLV	300	60	120	120

COLONY : UMUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-04-2020	42	12	7	<10
16-04-2020	40	11	6	<10
TLV	100	60	80	80

MORPAR VILLAGE : UMUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-04-2020	52	14	8	<10
16-04-2020	42	12	7	<10
TLV	100	60	80	80

R. Annapurna

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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.

Test Report

Air quality monitoring data

NEAR PIT OFFICE: UMUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-04-2020	95
16-04-2020	78
TLV	600

NEAR MAGAZINE BUILDING: UMUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-04-2020	121
16-04-2020	84
TLV	600

COLONY : UMUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-04-2020	57
16-04-2020	54
TLV	200

MORPAR VILLAGE : UMUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-04-2020	70
16-04-2020	57
TLV	200

R. Annapurna

SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)

- 1 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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	--

TSET REPORT NO.	RIN/TR/APRIL-20/W15	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	UMRER AREA	SAMPLING METHOD	LSOP 5
NAME OF PROJECT	MURPAR UG	SAMPLING PLAN	LQR 47

MINE WATER DISCHARGE: UMUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
07-04-2020	7.2	22	36	<2
16-04-2020	7.1	20	32	<2
TLV	5.5 - 9.0	100	250	10

R. Annapurna
SCIENTIFIC ASSISTANT

Deepanshu Sahu
DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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: UMRER AREA
NAME OF PROJECT: MURPAR UG

YEAR: 2020
MONTH: APRIL

FAN HOUSE: UMUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	11-04-2020	69.5	68.8
APRIL 2020	16-04-2020	69.3	68.6
TLV		75	70

COLONY: UMUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	11-04-2020	42.2	41.4
APRIL 2020	16-04-2020	42.8	41.9
TLV		55	45

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

UMRER OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL 2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 TO 7
3	WATER QUALITY MONITORING DATA	8
4	NOISE LEVEL DATA	9

INTRODUCTION

Umrer opencast project falls in the Nagpur district of Maharashtra state and is administered by Umrer Area of Western Coalfields Limited. The drainage of the area is controlled by Amb river. The climate of the area is tropical. The state highway roads which are adjacent to the project produce lot of dust due to heavy vehicular traffic.

Sampling Location:**Ambient Air Quality Monitoring locations:**

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	UMRER MANAGER OFFICE:	UUOA1
2	NEAR WORKSHOP:	UUOA2
3	KANWA VILLAGE :	UUOA3
4	NEAR PUMP HOUSE COLONY:	UUOA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP:	UUOF1
2	WEIGHT BRIDGE:	UUOF2
3	RLY. SIDING:	UUOF3

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	UUOW1
2	ETP DISCHARGE:	UUOW2

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP:	UUON1
2	COLONY:	UUON2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--

TSET REPORT NO.	RIN/TR/APRIL-20/A11	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NO _x (06:2006), SO ₂ (02:2001)] &PM-2.5		
NAME OF AREA	UMRER AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	UMRER OC	SAMPLING PLAN : LQR 47	

UMRER MANAGER OFFICE: UUA01				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
10-04-2020	57	39	24	12
28-04-2020	88	30	17	<10
TLV	300	60	120	120

NEAR WORKSHOP: UUA02				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
10-04-2020	62	35	22	11
28-04-2020	106	30	17	<10
TLV	300	60	120	120

KANWA VILLAGE : UUA03				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
10-04-2020	43	12	7	<10
28-04-2020	54	15	9	<10
TLV	100	60	80	80

NEAR PUMP HOUSE COLONY: UUA04				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
09-04-2020	47	13	7	<10
26-04-2020	44	12	7	<10
TLV	100	60	80	80

R. Annapurna

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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.

Test Report

Air quality monitoring data

UMRER MANAGER OFFICE: UUAO1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
10-04-2020	93
28-04-2020	117
TLV	600

NEAR WORKSHOP: UUAO2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
10-04-2020	88
28-04-2020	143
TLV	600

KANWA VILLAGE : UUAO3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
10-04-2020	58
28-04-2020	78
TLV	200

NEAR PUMP HOUSE COLONY: UUAO4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
09-04-2020	63
26-04-2020	59
TLV	200

R. Annapurna

SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)

- 1 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.

FUGITIVE DUST MONITORING DATA

CHP: UUOF1		
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)	
	PM10	PM_{2.5}
DETECTION LIMIT	5	2
28-04-2020	125	35

WEIGHT BRIDGE: UUOF2		
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)	
	PM10	PM_{2.5}
DETECTION LIMIT	5	2
10-04-2020	186	47

R. Annapurna

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

FUGITIVE DUST MONITORING DATA

CHP: UUOF1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
28-04-2020	169

WEIGHT BRIDGE: UUOF2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-04-2020	278

R. Annapurna

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	--

TSET REPORT NO.	RIN/TR/APRIL-20/W11	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	UMRER AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	UMRER OC	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: UUOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
10-04-2020	7.2	20	32	<2
28-04-2020	7.1	18	28	<2
TLV	5.5 - 9.0	100	250	10

ETP DISCHARGE: UUOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
28-04-2020	7.4	22	32	<2
TLV	5.5 - 9.0	100	250	10

STP DISCHARGE : UUOW3		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS (in mg/l)	BOD (in mg/l)
DETECTION LIMIT	10	2
10-04-2020	46	10.8
28-04-2020	44	10.2
TLV	100	30

R. Annapurna
SCIENTIFIC ASSISTANT

Deepanshu Sahu
DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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: UMRER AREA
NAME OF PROJECT: UMRER OC

YEAR: 2020
MONTH: APRIL

CHP: UUON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	11-04-2020	67.2	66.6
APRIL 2020	25-04-2020	66.2	65.4
TLV		75	70

COLONY: UUON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	11-04-2020	41.4	40.7
APRIL 2020	25-04-2020	42.6	41.3
TLV		55	45

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

GHUGUS OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



APRIL 2020

Environment Laboratory
NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 7
4	NOISE LEVEL DATA	8

INTRODUCTION

Ghugus Opencast Project is located in Chandrapur district of Maharashtra State. It is administered by Wani Area of Western Coalfields Limited. Wardha river and its tributaries serve as the main drainage of the area. The climate of this area is tropical. The above-mentioned industries and the busy road traffic are also expected to contribute in increasing the pollution load of the area.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	ACC PATCH NEAR ACC COLONY:	WGOA1
2	SAM OFFICE:	WGOA2
3	RAM NAGAR COLONY :	WGOA3
4	GHUGUS VILLAGE (GP OFFICE):	WGOA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP:	WGOF1
2	RAILWAY SIDING:	WGOF2

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP:	WGON1
2	COLONY:	WGON2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--

TSET REPORT NO.	RIN/TR/APRIL-20/A38	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	WANI AREA	SAMPLING METHOD :	LSOP 4
NAME OF PROJECT	GHUGUS OC	SAMPLING PLAN :	LQR 47

ACC PATCH NEAR ACC COLONY: WGOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-04-2020	64	13	8	<10
19-04-2020	72	12	7	<10
TLV	300	60	120	120

SAM OFFICE: WGOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-04-2020	45	26	15	<10
18-04-2020	66	41	23	12
TLV	300	60	120	120

RAM NAGAR COLONY : WGOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-04-2020	73	36	21	12
18-04-2020	84	30	17	<10
TLV	100	60	80	80

GHUGUS VILLAGE (GP OFFICE): WGOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-04-2020	68	18	11	<10
18-04-2020	76	19	10	<10
TLV	100	60	80	80



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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.

FUGITIVE DUST MONITORING DATA

RAILWAY SIDING: WGOF2		
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)	
	PM10	PM _{2.5}
DETECTION LIMIT	5	2
17-04-2020	108	29



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |
| 3 | ** This parameter not regulated as per NAAQS |

Test Report

Air quality monitoring data

ACC PATCH NEAR ACC COLONY: WGOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-04-2020	95
19-04-2020	112
TLV	600

SAM OFFICE: WGOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-04-2020	92
18-04-2020	99
TLV	600

RAM NAGAR COLONY : WGOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-04-2020	121
18-04-2020	137
TLV	200

GHUGUS VILLAGE (GP OFFICE): WGOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-04-2020	118
18-04-2020	138
TLV	200



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)

- 1 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.

FUGITIVE DUST MONITORING DATA

RAILWAY SIDING: WGOF2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
17-04-2020	237



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)

- | | |
|---|--|
| 1 | 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: WANI AREA YEAR: 2020
 NAME OF PROJECT: GHUGUS OC MONTH: APRIL

CHP: WGON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	11-04-2020	64.6	63.9
APRIL 2020	20-04-2020	64.8	63.6
TLV		75	70

COLONY: WGON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	11-04-2020	44.3	43.6
APRIL 2020	20-04-2020	44.5	43.8
TLV		55	45

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

KOLGAON OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL 2020

Environment Laboratory
NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

INTRODUCTION

Kolgaon Opencast Project is located in Wani Tahsil of Yeotmal district of Maharashtra State. It is administered by Wani Area of Western Coalfields Limited. Drainage of the area is controlled by Wardha river in North and Penganga river in South. The climate of this area is tropical. Besides other coal mines, ACC Cement Factory and Sindhale Limestone mines are the major industries nearby the project area. The above mentioned industries and the busy road traffic are also expected to contribute in increasing the pollution.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER OFFICE:	WKOA1
2	SAM OFFICE:	WKOA2
3	KOLGAON VILLAGE :	WKOA3
4	AILSHNAGAR TOWNSHIP - FILTER PLANT	WKOA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	WKOW1

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER OFFICE:	WKON1
2	COLONY (MUGOLI):	WKON2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--

TSET REPORT NO.	RIN/TR/APRIL-20/A39	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	WANI AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	KOLGAON OC	SAMPLING PLAN	LQR 47

MANAGER OFFICE: WKOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-04-2020	91	33	19	11
28-04-2020	46	26	16	<10
TLV	300	60	120	120

SAM OFFICE: WKOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-04-2020	71	32	19	11
28-04-2020	89	34	21	12
TLV	300	60	120	120

KOLGAON VILLAGE : WKOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-04-2020	42	28	17	10
28-04-2020	63	34	21	12
TLV	100	60	80	80

KAILSHNAGAR TOWNSHIP - FILTER PLANT: WKOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-04-2020	79	35	21	12
16-04-2020	94	40	25	14
TLV	100	60	80	80



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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.

Test Report

Air quality monitoring data

MANAGER OFFICE: WKOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-04-2020	91
28-04-2020	85
TLV	600

SAM OFFICE: WKOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-04-2020	113
28-04-2020	134
TLV	600

KOLGAON VILLAGE : WKOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-04-2020	77
28-04-2020	101
TLV	200


KAILSHNAGAR TOWNSHIP - FILTER PLANT: WKOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-04-2020	110
16-04-2020	123
TLV	200



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
MANAGER (ENV.)


- 1 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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	--

TSET REPORT NO.	RIN/TR/APRIL-20/W39	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	WANI AREA	SAMPLING METHOD :	LSOP 5
NAME OF PROJECT	KOLGAON OC	SAMPLING PLAN :	LQR 47

MINE WATER DISCHARGE: WKOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
15-04-2020	7.1	34	36	<2
28-04-2020	7.4	40	44	<2
TLV	5.5 - 9.0	100	250	10


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

1	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: WANI AREA
NAME OF PROJECT: KOLGAON OC

YEAR: 2020
MONTH: APRIL

MANAGER OFFICE: WKON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	11-04-2020	55.7	54.6
APRIL 2020	20-04-2020	55.8	54.9
TLV		75	70

COLONY (MUGOLI): WKON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	11-04-2020	42.8	41.9
APRIL 2020	20-04-2020	43.5	42.6
TLV		55	45

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

MUGOLI OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL 2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 7
3	WATER QUALITY MONITORING DATA	8
4	NOISE LEVEL DATA	9

INTRODUCTION

Mugoli Opencast Project is located in Wani Tahsil of Yeotmal district of Maharashtra State. It is administered by Wani Area of Western Coalfields Limited. Drainage of the area is controlled by Wardha river in North and Penganga river in South. The climate of this area is tropical. The above mentioned industries and the busy road traffic are also expected to contribute in increasing the pollution load of the area.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	SUB - STATION:	WMOA1
2	SAM OFFICE:	WMOA2
3	KAILSHNAGAR TOWNSHIP FILTER PLANT :	WMOA3
4	TUBEWELL NEAR SAKHARA VILLAGE:	WMOA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	SECURITY CHECK POST OFFICE:	WMOF1

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	WMOW1
2	ETP DISCHARFE	WMOW2

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP:	WMON1
2	COLONY:	WMON2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--

TSET REPORT NO.	RIN/TR/APRIL-20/A36	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/1400-1414 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NO _x (06:2006), SO ₂ (02:2001)] & PM-2.5		
NAME OF AREA	WANI AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	MUGOLI OC	SAMPLING PLAN : LQR 47	

SUB - STATION: WMOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-04-2020	61	43	25	15
16-04-2020	74	42	26	14
TLV	300	60	120	120

SAM OFFICE: WMOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-04-2020	71	32	19	11
28-04-2020	89	34	21	12
TLV	300	60	120	120

KAILSHNAGAR TOWNSHIP FILTER PLANT : WMOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-04-2020	79	35	21	12
16-04-2020	94	40	25	14
TLV	100	60	80	80

TUBEWELL NEAR SAKHARA VILLAGE: WMOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-04-2020	62	26	15	<10
16-04-2020	68	31	19	11
TLV	100	60	80	80



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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.

FUGITIVE DUST MONITORING DATA

SECURITY CHECK POST OFFICE: WMOF1		
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)	
	PM10	PM _{2.5}
DETECTION LIMIT	5	2
16-04-2020	110	26



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

Test Report

Air quality monitoring data

SUB - STATION: WMOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-04-2020	84
16-04-2020	113
TLV	600

SAM OFFICE: WMOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-04-2020	113
28-04-2020	134
TLV	600

KAILSHNAGAR TOWNSHIP FILTER PLANT : WMOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-04-2020	110
16-04-2020	123
TLV	200

TUBEWELL NEAR SAKHARA VILLAGE: WMOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-04-2020	84
16-04-2020	109
TLV	200



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)

- 1 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.

FUGITIVE DUST MONITORING DATA

SECURITY CHECK POST OFFICE: WMOF1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
16-04-2020	151



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)

- | | |
|---|--|
| 1 | 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. |

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	--

TSET REPORT NO.	RIN/TR/APRIL-20/W36	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/1400-1414 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	WANI AREA	SAMPLING METHOD :	LSOP 5
NAME OF PROJECT	MUGOLI OC	SAMPLING PLAN :	LQR 47

MINE WATER DISCHARGE: WMOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
15-04-2020	6.6	26	28	<2
16-04-2020	6.2	34	32	<2
TLV	5.5 - 9.0	100	250	10

ETP DISCHARGE WMOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
15-04-2020	6	50	44	<2
16-04-2020	6.5	56	52	<2
TLV	5.5 - 9.0	100	250	10



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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: WANI AREA
NAME OF PROJECT: MUGOLI OC

YEAR: 2020
MONTH: APRIL

CHP: WMON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	11-04-2020	64.7	63.9
APRIL 2020	20-04-2020	64.4	63.7
TLV		75	70

COLONY: WMON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	11-04-2020	42.8	41.9
APRIL 2020	20-04-2020	43.5	42.6
TLV		55	45

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

NAIGAON OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL 2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
4	NOISE LEVEL DATA	6

INTRODUCTION

Bellora-Naigaon Opencast Project is located in Wani Tahsil of Yeotmal district of Maharashtra State. It is administered by Wani Area of Western Coalfields Limited. Drainage of the area is controlled by Wardha River in North and Penganga River in South. The climate of this area is tropical. The above-mentioned industries and busy road traffic are also expected to contribute in increasing the pollution load of the area.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	SAM OFFICE:	WNGOA1
2	WORKSHOP ETP NOCM - I:	WNGOA2
3	BELLORA REHABILITATION VILLAGE:	WNGOA3
4	FILTER PLANT NEAR VIP GUEST HOUSE:	WNGOA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	WEIGHT BRIDGE:	WNGOF1

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP:	WNGON1
2	COLONY (GHUGUS):	WNGON3

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--

TSET REPORT NO.	RIN/TR/APRIL-20/A37	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] &PM-2.5		
NAME OF AREA	WANI AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	NAIGAON OC	SAMPLING PLAN : LQR 47	

SAM OFFICE: WNGOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-04-2020	87	42	25	14
19-04-2020	78	28	15	<10
TLV	300	60	120	120

WORKSHOP ETP NOCM - I: WNGOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-04-2020	55	26	15	<10
20-04-2020	63	35	19	10
TLV	300	60	120	120

BELLORA REHABILITATION VILLAGE: WNGOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-04-2020	54	36	21	12
19-04-2020	59	40	22	11
TLV	100	60	80	80

FILTER PLANT NEAR VIP GUEST HOUSE: WNGOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-04-2020	35	28	17	10
19-04-2020	47	33	18	<10
TLV	100	60	80	80



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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.

Test Report

Air quality monitoring data

SAM OFFICE: WNGOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-04-2020	112
19-04-2020	89
TLV	600

WORKSHOP ETP NOCM - I: WNGOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-04-2020	112
20-04-2020	135
TLV	600

BELLORA REHABILITATION VILLAGE: WNGOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-04-2020	114
19-04-2020	122
TLV	200

FILTER PLANT NEAR VIP GUEST HOUSE: WNGOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-04-2020	82
19-04-2020	111
TLV	200



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)

- 1 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: WANI AREA
NAME OF PROJECT: NAIGAON OC

YEAR: 2020
MONTH: APRIL

CHP: WNGON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	11-04-2020	63.4	62.8
APRIL 2020	20-04-2020	63.6	62.9
TLV		75	70

COLONY (GHUGUS): WNGON3			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	11-04-2020	44.3	43.6
APRIL 2020	20-04-2020	44.5	43.8
TLV		55	45

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

NILJAI DEEP OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL 2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

INTRODUCTION

Niljai opencast project is administered by Wani Area of Western Coalfields Limited. It falls in Wani Tahsil of Yeotmal district of Maharashtra state. Wardha River serves as the main drainage during rainy season. The climate of this area is tropical. The industries like Cement Plant, Lloyed Steel, and Brick Kiln are also likely to contribute in increasing the pollution in nearby villages/colony

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CIVIL OFFICE- NILJAI:	WNOA1
2	WORKSHOP ETP NOCM:	WNOA2
3	NILJAI COLONY:	WNOA3
4	TARODA VILLAGE:	WNOA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP:	WNOF1
2	WEIGHT BRIDGE:	WNOF2

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	WNOW1
2	ETP (NILJAI-S) TREATED WATER:	WNOW2
3	STP(DOMESTIC EFFLUENT) - TREATED WATER:	WNOW3

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP:	WNON1
2	CHP (S):	WNON2
3	COLONY:	WNON3

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--

TSET REPORT NO.	RIN/TR/APRIL-20/A35	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	WANI AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	NILJAI DEEP OC	SAMPLING PLAN : LQR 47	

CIVIL OFFICE- NILJAI: WNOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-04-2020	97	37	22	13
20-04-2020	121	38	21	10
TLV	300	60	120	120

WORKSHOP ETP NOCM: WNOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-04-2020	55	26	15	<10
20-04-2020	63	35	19	10
TLV	300	60	120	120

NILJAI COLONY: WNOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-04-2020	72	41	24	14
20-04-2020	78	38	21	10
TLV	100	60	80	80

TARODA VILLAGE: WNOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-04-2020	58	25	15	<10
20-04-2020	61	18	12	<10
TLV	100	60	80	80



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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.

Test Report

Air quality monitoring data

CIVIL OFFICE- NILJAI: WNOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-04-2020	185
20-04-2020	196
TLV	600

WORKSHOP ETP NOCM: WNOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-04-2020	112
20-04-2020	135
TLV	600

NILJAI COLONY: WNOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-04-2020	95
20-04-2020	107
TLV	200

TARODA VILLAGE: WNOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-04-2020	118
20-04-2020	124
TLV	200




SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)

- 1 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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	--


TSET REPORT NO.	RIN/TR/APRIL-20/W35	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.)WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	WANI AREA	SAMPLING METHOD :	LSOP 5
NAME OF PROJECT	NILJAI DEEP OC	SAMPLING PLAN :	LQR 47

MINE WATER DISCHARGE: WNOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
13-04-2020	6	38	32	<2
20-04-2020	6.3	46	40	<2
TLV	5.5 - 9.0	100	250	10

ETP (NILJAI-S) TREATED WATER: WNOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
13-04-2020	6.3	44	52	<2
20-04-2020	6	52	60	<2
TLV	5.5 - 9.0	100	250	10

STP(DOMESTIC EFFLUENT) - TREATED WATER: WNOW3		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS(in mg/l)	BOD(in mg/l)
DETECTION LIMIT	10	2
13-04-2020	52	12
20-04-2020	58	10
TLV	100	30


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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: WANI AREA **YEAR: 2020**
NAME OF PROJECT: NILJAI DEEP OC **MONTH: APRIL**

CHP: WNON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	11-04-2020	64.7	63.4
APRIL 2020	20-04-2020	64.5	63.8
TLV		75	70

CHP (S): WNON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	11-04-2020	63.5	62.9
APRIL 2020	20-04-2020	63.9	63.4
TLV		75	70

COLONY: WNON3			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	11-04-2020	43.7	42.8
APRIL 2020	20-04-2020	42.8	41.9
TLV		55	45

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

PENGANGA OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL 2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

INTRODUCTION

Penganga Opencast Project is located in Wani Tahsil of Yeotmal district of Maharashtra State. It is administered by Wani Area of Western Coalfields Limited. Drainage of the area is controlled by Wardhar river and Penganga river. The climate of this area is tropical. The above mentioned industries and the busy road traffic are also expected to contribute in increasing the pollution load of the area.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER OFFICE:	WPOA1
2	NEAR MINE:	WPOA2
3	VIRUR VILLAGE :	WPOA3
4	GADEGAON VILLAGE:	WPOA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NEAR WORKSHOP:	WPOF1

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	WPOW1

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NEAR WORKSHOP:	WPON1

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	---

TSET REPORT NO.	RIN/TR/APRIL-20/A40	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.)WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	WANI AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	PENGANGA OC	SAMPLING PLAN : LQR 47	

MANAGER OFFICE: WPOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-04-2020	58	41	24	14
17-04-2020	62	43	24	13
TLV	300	60	120	120

NEAR MINE: WPOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-04-2020	52	42	25	14
17-04-2020	51	37	20	11
TLV	300	60	120	120

VIRUR VILLAGE : WPOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-04-2020	57	32	19	11
17-04-2020	61	37	20	11
TLV	100	60	80	80

GADEGAON VILLAGE: WPOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-04-2020	66	34	20	12
17-04-2020	71	40	25	14
TLV	100	60	80	80

S.B. M.

D. S.

SCIENTIFIC ASSISTANT

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

Test Report

Air quality monitoring data

MANAGER OFFICE: WPOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-04-2020	78
17-04-2020	95
TLV	600

NEAR MINE: WPOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-04-2020	87
17-04-2020	82
TLV	600

VIRUR VILLAGE : WPOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-04-2020	99
17-04-2020	82
TLV	200

GADEGAON VILLAGE: WPOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-04-2020	85
17-04-2020	114
TLV	200




SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)

- 1 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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	---

TSET REPORT NO.	RIN/TR/APRIL-20/W40	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	WANI AREA	SAMPLING METHOD :	LSOP 5
NAME OF PROJECT	PENGANGA OC	SAMPLING PLAN :	LQR 47

MINE WATER DISCHARGE: WPOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
15-04-2020	6.8	32	28	<2
17-04-2020	7.1	30	36	<2
TLV	5.5 - 9.0	100	250	10



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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: WANI AREA **YEAR: 2020**
NAME OF PROJECT: PENGANGA OC **MONTH: APRIL**

NEAR WORKSHOP: WPON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	11-04-2020	56.8	55.9
APRIL 2020	20-04-2020	56.9	55.6
TLV		75	70

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

GHONSA OC

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL 2020



Environment Laboratory
NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY



INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

INTRODUCTION

Ghonsa Open Cast Project is located in Wani Tahsil of Yeotmal district of Maharashtra State. It is administered by Wani North Area of Western Coalfields Limited. Vidarbha river serves as the main drainage of the area during rainy season. The climate of this 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:	WNGOA1
2	SAM OFFICE/ CANTEEN:	WNGOA2
3	GHONSA VILLAGE:	WNGOA3
4	GUEST HOUSE/ COLONY:	WNGOA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	WNGOW1

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER OFFICE:	WNGON1

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	---	---

TSET REPORT NO.	RIN/TR/APRIL-20/A55	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.)WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NO _x (06:2006), SO ₂ (02:2001)] & PM-2.5		
NAME OF AREA	WANI NORTH	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	GHONSA OC	SAMPLING PLAN : LQR 47	

MANAGER OFFICE: WNGOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-04-2020	82	36	21	12
24-04-2020	94	48	30	16
TLV	300	60	120	120

SAM OFFICE/ CANTEEN: WNGOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-04-2020	26	18	11	<10
24-04-2020	82	40	25	14
TLV	300	60	120	120

GHONSA VILLAGE: WNGOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-04-2020	52	32	19	11
24-04-2020	64	36	22	12
TLV	100	60	80	80

GUEST HOUSE/ COLONY: WNGOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-04-2020	59	26	15	<10
24-04-2020	51	27	17	<10
TLV	100	60	80	80



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

Test Report

Air quality monitoring data

MANAGER OFFICE: WNGOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-04-2020	126
24-04-2020	121
TLV	600

SAM OFFICE/ CANTEEN: WNGOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-04-2020	54
24-04-2020	136
TLV	600

GHONSA VILLAGE: WNGOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-04-2020	86
24-04-2020	100
TLV	200

GUEST HOUSE/ COLONY: WNGOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-04-2020	121
24-04-2020	118
TLV	200



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)

- 1 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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	--

TSET REPORT NO.	RIN/TR/APRIL-20/W55	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.), WCL(HQ)NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	WANI NORTH	SAMPLING METHOD :	LSOP 5
NAME OF PROJECT	GHONSA OC	SAMPLING PLAN :	LQR 47

MINE WATER DISCHARGE: WNGOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
11-04-2020	7.14	18	24	<2
24-04-2020	6.9	18	24	<2
TLV	5.5 - 9.0	100	250	10



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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: WANI NORTH
NAME OF PROJECT: GHONSA OC

YEAR: 2020
MONTH: APRIL

MANAGER OFFICE: WNGON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	07-04-2020	56.6	55.8
APRIL 2020	24-04-2020	56.2	55.9
TLV		75	70

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

JUNAD OC

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL 2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

INTRODUCTION

Junad Opencast Project is located in Wani Tahsil of Yeotmal district of Maharashtra State. It is administered by Wani North Area of Western Coalfields Limited. The drainage of the area is controlled by Wardha river. The climate of this area is tropical. The above-mentioned industries are also expected to contribute in increasing the pollution load of the area.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	SAM OFFICE:	WNJOA1
2	BORGAON VILLAGE:	WNJOA2
3	BHALAR TOWNSHIP:	WNJOA3
4	UKNI VILLAGE:	WNJOA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	SECURITY POST:	WNJOF1

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	WNJOW1
2	ETP (TREATED):	WNJOW2

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER OFFICE:	WNJON1
2	BHALAR COLONY:	WNJON2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--


TSET REPORT NO.	RIN/TR/APRIL-20/A53	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	WANI NORTH	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	JUNAD OC	SAMPLING PLAN : LQR 45	

SAM OFFICE: WNJOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-04-2020	61	36	21	12
22-04-2020	47	28	17	<10
TLV	300	60	120	120

BORGAON VILLAGE: WNJOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-04-2020	76	26	15	<10
21-04-2020	80	17	19	<10
TLV	100	60	80	80

BHALAR TOWNSHIP: WNJOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-04-2020	61	28	17	10
21-04-2020	88	32	20	11
TLV	100	60	80	80

UKNI VILLAGE: WNJOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-04-2020	64	36	21	12
21-04-2020	51	32	20	11
TLV	100	60	80	80



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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.

Test Report

Air quality monitoring data

SAM OFFICE: WNJOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-04-2020	136
22-04-2020	109
TLV	600

BORGAON VILLAGE: WNJOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-04-2020	115
21-04-2020	128
TLV	200

BHALAR TOWNSHIP: WNJOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-04-2020	101
21-04-2020	114
TLV	200


UKNI VILLAGE: WNJOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-04-2020	104
21-04-2020	88
TLV	200



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
MANAGER (ENV.)

- | | |
|---|--|
| 1 | 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. |

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	--

TSET REPORT NO.	RIN/TR/APRIL-20/W53	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	WANI NORTH	SAMPLING METHOD	LSOP 5
NAME OF PROJECT	JUNAD OC	SAMPLING PLAN	LQR 47

MINE WATER DISCHARGE: WNJOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
11-04-2020	6.8	48	80	<2
22-04-2020	6.99	28	40	<2
TLV	5.5 - 9.0	100	250	10

ETP (TREATED): WNJOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
11-04-2020	7.07	28	28	<2
22-04-2020	6.05	30	44	<2
TLV	5.5 - 9.0	100	250	10



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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: WANI NORTH
NAME OF PROJECT: JUNAD OC

YEAR: 2020
MONTH: APRIL

MANAGER OFFICE: WNJON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	07-04-2020	55.7	54.8
APRIL 2020	24-04-2020	55.6	54.9
TLV		75	70

BHALAR COLONY: WNJON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	07-04-2020	43.5	42.7
APRIL 2020	24-04-2020	42.9	42.6
TLV		55	45

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

KOLARPIMPRI OC

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL-2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 7
3	WATER QUALITY MONITORING DATA	8
4	NOISE LEVEL DATA	9

INTRODUCTION

Kolar-Pimpri Opencast Project is located on the right bank of Wardha river in Wani Tahsil of Yeotmal district of Maharashtra State. It is administered by Wani North Area of Western Coalfields Limited. Wardha river serves as the main drainage of the area. The climate of this area is tropical. The above-mentioned industries are also expected to contribute in increasing the pollution load of the area.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	SUBSTATION KOLARPIMPRI:	WNKOA1
2	REST SHELTER:	WNKOA2
3	PIMPRI VILLAGE:	WNKOA3
4	WATER FILTER PLANT PRAGATI NAGAR:	WNKOA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	WEIGHT BRIDGE:	WNKOF1
2	CHP:	WNKOF2
3	WANI.RLY. SIDING	WNKOF3

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	WNKOW1
2	ETP (TREATED):	WNKOW2

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP:	WNKON1
2	COLONY PRAGATI NAGAR:	WNKON2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--

TSET REPORT NO.	RIN/TR/APRIL-20/A50	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	WANI NORTH	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	KOLARPIMPRI OC	SAMPLING PLAN : LQR 47	

SUBSTATION KOLARPIMPRI: WNKOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-04-2020	40	30	18	10
22-04-2020	41	34	21	12
TLV	300	60	120	120

REST SHELTER: WNKOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-04-2020	67	29	17	10
23-04-2020	72	31	19	11
TLV	300	60	120	120

PIMPRI VILLAGE: WNKOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-04-2020	36	26	15	<10
21-04-2020	31	21	13	<10
TLV	100	60	80	80

WATER FILTER PLANT PRAGATI NAGAR: WNKOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
10-04-2020	60	18	11	<10
23-04-2020	68	24	15	<10
TLV	100	60	80	80



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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.

FUGITIVE DUST MONITORING DATA

WEIGHT BRIDGE: WNKOF1		
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)	
	PM10	PM_{2.5}
DETECTION LIMIT	5	2
23-04-2020	110	50

CHP: WNKOF2		
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)	
	PM10	PM_{2.5}
DETECTION LIMIT	5	2
23-04-2020	124	58

WANI.RLY. SIDING WNKOF3		
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)	
	PM10	PM_{2.5}
DETECTION LIMIT	5	2
08-04-2020	128	56



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

Test Report

Air quality monitoring data

SUBSTATION KOLARPIMPRI: WNKOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-04-2020	55
22-04-2020	68
TLV	600

REST SHELTER: WNKOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-04-2020	112
23-04-2020	128
TLV	600

PIMPRI VILLAGE: WNKOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-04-2020	87
21-04-2020	84
TLV	200

WATER FILTER PLANT PRAGATI NAGAR: WNKOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
10-04-2020	95
23-04-2020	126
TLV	200



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)

- 1 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.

FUGITIVE DUST MONITORING DATA

WEIGHT BRIDGE: WNKOF1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
23-04-2020	156

CHP: WNKOF2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
23-04-2020	192

WANI.RLY. SIDING WNKOF3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-04-2020	202




SCIENTIFIC ASSISTANT



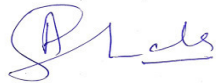
DEEPANSHU SAHU
MANAGER (ENV.)

- | | |
|---|--|
| 1 | 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. |

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	--

TSET REPORT NO.	RIN/TR/APRIL-20/W50	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	WANI NORTH	SAMPLING METHOD	: LSOP 5
NAME OF PROJECT	KOLARPIMPRI OC	SAMPLING PLAN	: LQR 47

MINE WATER DISCHARGE: WNKOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	36	2
08-04-2020	7.01	22	32	<2
22-04-2020	5.6	50	64	<2
TLV	5.5 - 9.0	100	250	10



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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: WANI NORTH
NAME OF PROJECT: KOLARPIMPRI OC

YEAR: 2020
MONTH: APRIL

CHP: WNKON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	07-04-2020	64.4	63.8
APRIL 2020	24-04-2020	63.5	62.9
TLV		75	70

COLONY PRAGATI NAGAR: WNKON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	07-04-2020	43.7	42.8
APRIL 2020	24-04-2020	43.6	42.2
TLV		55	45

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

KUMBHARKHANI UG

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL 2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
4	NOISE LEVEL DATA	6

INTRODUCTION

Junad Opencast Project is located in Wani Tahsil of Yeotmal district of Maharashtra State. It is administered by Wani North Area of Western Coalfields Limited. The drainage of the area is controlled by Wardha river. The climate of this area is tropical. The above-mentioned industries are also expected to contribute in increasing the pollution load of the area.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	PROJECT MANAGER OFFICE:	WNKUA1
2	SAM OFFICE/ CANTEEN:	WNKUA2
3	GUEST HOUSE / COLONY:	WNKUA3
4	GHONSA VILLAGE:	WNKUA4

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE:	WNKUN1
2	COLONY:	WNKUN2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--

TSET REPORT NO.	RIN/TR/APRIL-20/A54	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	WANI NORTH	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	KUMBHARKHANI UG	SAMPLING PLAN : LQR 47	

PROJECT MANAGER OFFICE: WNKUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-04-2020	42	28	17	10
23-04-2020	94	22	16	<10
TLV	300	60	120	120

SAM OFFICE/ CANTEEN: WNKUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-04-2020	26	18	11	<10
24-04-2020	82	40	25	14
TLV	300	60	120	120

GUEST HOUSE / COLONY: WNKUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-04-2020	59	26	15	<10
24-04-2020	51	27	17	<10
TLV	100	60	80	80

GHONSA VILLAGE: WNKUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-04-2020	52	32	19	11
24-04-2020	64	36	22	12
TLV	100	60	80	80



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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.

Test Report

Air quality monitoring data

PROJECT MANAGER OFFICE: WNKUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-04-2020	71
23-04-2020	140
TLV	600

SAM OFFICE/ CANTEEN: WNKUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-04-2020	54
24-04-2020	136
TLV	600

GUEST HOUSE / COLONY: WNKUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-04-2020	121
24-04-2020	118
TLV	200

GHONSA VILLAGE: WNKUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-04-2020	86
24-04-2020	100
TLV	200



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)

- 1 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: WANI NORTH **YEAR: 2020**
NAME OF PROJECT: KUMBHARKHANI UG **MONTH: APRIL**

FAN HOUSE: WNKUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	07-04-2020	45.6	44.8
APRIL 2020	24-04-2020	46.5	45.7
TLV		75	70

COLONY: WNKUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	07-04-2020	43.8	42.6
APRIL 2020	24-04-2020	43.4	42.5
TLV		55	45

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

PIMPALGAON OC

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL-2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 7
4	NOISE LEVEL DATA	8

INTRODUCTION

Pimpalgaon Opencast Project is located in Wani Tahsil of Yeotmal district of Maharashtra State. It is administered by Wani North Area of Western Coalfields Limited. Wardha river which flows from North to west acts as the main drainage of the area and is about 2.5 km to 3 km from Pimpalgaon. The climate of this area is tropical. The above-mentioned industries are also expected to contribute in increasing the pollution load of the area.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	SAM OFFICE:	WNPOA1
2	WORKSHOP:	WNPOA2
3	WATER FILTER PLANT PRAGATI NAGAR:	WNPOA3
4	BORGAON VILLAGE:	WNPOA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	WEIGHT BRIDGE:	WNPOF1
2	CHP:	WNPOF2

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP:	WNPON1
2	COLONY PRAGATI NAGAR:	WNPON2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--

TSET REPORT NO.	RIN/TR/APRIL-20/A51	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	WANI NORTH	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	PIMPALGAON OC	SAMPLING PLAN : LQR 47	

SAM OFFICE: WNPOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-04-2020	121	50	30	17
22-04-2020	94	36	22	12
TLV	300	60	120	120

WORKSHOP: WNPOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
09-04-2020	47	23	14	<10
24-04-2020	50	28	17	<10
TLV	300	60	120	120

WATER FILTER PLANT PRAGATI NAGAR: WNPOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
10-04-2020	60	18	11	<10
23-04-2020	68	24	15	<10
TLV	100	60	80	80

BORGAON VILLAGE: WNPOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-04-2020	76	26	15	<10
21-04-2020	80	30	19	<10
TLV	100	60	80	80



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

FUGITIVE DUST MONITORING DATA

WEIGHT BRIDGE: WNPOF1		
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)	
	PM10	PM_{2.5}
DETECTION LIMIT	5	2
24-04-2020	114	48

CHP: WNPOF2		
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)	
	PM10	PM_{2.5}
DETECTION LIMIT	5	2
22-04-2020	120	52



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

Test Report

Air quality monitoring data

SAM OFFICE: WNPOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-04-2020	141
22-04-2020	126
TLV	600

WORKSHOP: WNPOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
09-04-2020	112
24-04-2020	124
TLV	600

WATER FILTER PLANT PRAGATI NAGAR: WNPOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
10-04-2020	95
23-04-2020	104
TLV	200

BORGAON VILLAGE: WNPOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-04-2020	115
21-04-2020	128
TLV	200



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)

- 1 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.

FUGITIVE DUST MONITORING DATA

WEIGHT BRIDGE: WNPOF1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
24-04-2020	176

CHP: WNPOF2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
22-04-2020	182



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)

- | | |
|---|--|
| 1 | 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: WANI NORTH **YEAR: 2020**
NAME OF PROJECT: PIMPALGAON OC **MONTH: APRIL**

CHP: WNPN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	07-04-2020	63.8	62.9
APRIL 2020	24-04-2020	64.8	63.4
TLV		75	70

COLONY PRAGATI NAGAR: WNPN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	07-04-2020	43.7	42.8
APRIL 2020	24-04-2020	43.6	42.2
TLV		55	45

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

RAJUR UG

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL 2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

INTRODUCTION

Rajur Underground Project is located in Wani Tahsil of Yeotmal district of Maharashtra State. It is administered by Wani North Area of Western Coalfields Limited. Wardha river serves as the main drainage of the area. The climate of this area is tropical. Besides other coal mines, there are a lot of lime kiln and fire bricks industries near the project area. Transportation roads, agricultural and local activities, vehicular traffic etc also contributes to the pollution. The above-mentioned industries are also expected to contribute in increasing the pollution load of the area.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NEAR BANDEWADA INCLINE:	WNRUA1
2	SAM OFFICE:	WNRUA2
3	PIT OFFICE/ COLONY:	WNRUA3
4	HUTMENT:	WNRUA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	WNRUW1

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE:	WNRUN1
2	COLONY:	WNRUN2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	---


TSET REPORT NO.	RIN/TR/APRIL-20/A52	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	WANI NORTH	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	RAJUR UG	SAMPLING PLAN : LQR 47	

NEAR BANDEWADA INCLINE: WNRUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-04-2020	79	31	18	11
25-04-2020	100	32	20	11
TLV	300	60	120	120

SAM OFFICE: WNRUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-04-2020	48	27	16	<10
25-04-2020	54	33	20	11
TLV	300	60	120	120

PIT OFFICE/ COLONY: WNRUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-04-2020	58	29	17	10
25-04-2020	61	35	22	12
TLV	300	60	120	120

HUTMENT: WNRUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-04-2020	54	13	8	<10
25-04-2020	67	14	9	<10
TLV	100	60	80	80



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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.

Test Report

Air quality monitoring data

NEAR BANDEWADA INCLINE: WNRUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-04-2020	131
25-04-2020	156
TLV	600

SAM OFFICE: WNRUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-04-2020	89
25-04-2020	98
TLV	600

PIT OFFICE/ COLONY: WNRUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-04-2020	92
25-04-2020	110
TLV	600

HUTMENT: WNRUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-04-2020	86
25-04-2020	92
TLV	200



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
MANAGER (ENV.)

- 1 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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	---

TSET REPORT NO.	RIN/TR/APRIL-20/W52	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	WANI NORTH	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	RAJUR UG	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: WNRUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
11-04-2020	6.72	18	28	<2
25-04-2020	6.8	28	40	<2
TLV	5.5 - 9.0	100	250	10



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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: WANI NORTH
NAME OF PROJECT: RAJUR UG

YEAR: 2020
MONTH: APRIL

FAN HOUSE: WNRUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	07-04-2020	69.5	68.6
APRIL 2020	24-04-2020	69.7	68.9
TLV		75	70

COLONY: WNRUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	07-04-2020	42.8	41.9
APRIL 2020	24-04-2020	43.5	42.8
TLV		55	45

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

UKNI OC

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 800003



APRIL-2020

Environment Laboratory
NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

INTRODUCTION

Ukni Opencast Project is located in Wani Tahsil of Yeotmal district of Maharashtra State. It is administered by Wani North Area of Western Coalfields Limited. Wardha river serves as the main drainage of the area during rainy season. The climate of this area is tropical. The above-mentioned industries are also expected to contribute in increasing the pollution load of the area.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	WORKSHOP PREMISES:	WNUOA1
2	BHALAR TOWNSHIP:	WNUOA2
3	UKNI VILLAGE:	WNUOA3
4	PIMPRI VILLAGE:	WNUOA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	WEIGHT BRIDGE:	WNUOF1
2	CHP:	WNUOF2

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	WNUOW1
2	ETP (TREATED):	WNUOW2
3	STP DISCHARGE:	WNUOW3

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP:	WNUON1
2	BHALAR COLONY:	WNUON2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	---

TSET REPORT NO.	RIN/TR/APRIL-20/A49	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.4.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	WANI NORTH	SAMPLING METHOD :	LSOP 4
NAME OF PROJECT	UKNI OC	SAMPLING PLAN :	LQR 47

WORKSHOP PREMISES: WNUOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-04-2020	68	23	14	<10
21-04-2020	72	24	15	<10
TLV	300	60	120	120

BHALAR TOWNSHIP: WNUOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-04-2020	61	28	17	10
21-04-2020	88	32	20	11
TLV	100	60	80	80

UKNI VILLAGE: WNUOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-04-2020	64	36	21	12
21-04-2020	51	32	20	11
TLV	100	60	80	80

PIMPRI VILLAGE: WNUOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-04-2020	36	26	15	<10
21-04-2020	31	21	13	<10
TLV	100	60	80	80



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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.
3	* Test parameter not under NABL scope.

Test Report

Air quality monitoring data

WORKSHOP PREMISES: WNUOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-04-2020	148
21-04-2020	160
TLV	600

BHALAR TOWNSHIP: WNUOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-04-2020	101
21-04-2020	114
TLV	200

UKNI VILLAGE: WNUOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-04-2020	104
21-04-2020	88
TLV	200


PIMPRI VILLAGE: WNUOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-04-2020	87
21-04-2020	84
TLV	200



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
MANAGER (ENV.)

- | | |
|---|--|
| 1 | 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. |

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	---

TSET REPORT NO.	RIN/TR/APRIL-20/W49	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.4.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	WANI NORTH	SAMPLING METHOD :	LSOP 5
NAME OF PROJECT	UKNI OC	SAMPLING PLAN :	LQR 47

MINE WATER DISCHARGE: WNUOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
12-04-2020	5.8	40	60	<2
21-04-2020	5.9	24	32	<2
TLV	5.5 - 9.0	100	250	10

ETP (TREATED): WNUOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
12-04-2020	6.95	20	28	<2
21-04-2020	6.5	44	80	<2
TLV	5.5 - 9.0	100	250	10

STP DISCHARGE: WNUOW3		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS (in mg/l)	BOD (in mg/l)
DETECTION LIMIT	10	2
12-04-2020	42	12
21-04-2020	40	10
TLV	100	30



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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: WANI NORTH
NAME OF PROJECT: UKNI OC

YEAR: 2020
MONTH: APRIL

CHP: WNUON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	17-04-2020	64.2	63.9
APRIL 2020	24-04-2020	64.5	63.8
TLV		75	70

BHALAR COLONY: WNUON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	17-04-2020	43.5	42.7
APRIL 2020	24-04-2020	42.9	42.6
TLV		55	45

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

WANI RAILWAY SIDING

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL 2020



Environment Laboratory
NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY



INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
4	NOISE LEVEL DATA	6

INTRODUCTION

Barkuhi OC is located in Chhindwara district of Madhya Pradesh. The project is administered by Pench Area of Western Coalfields Limited. Drainage of the area is mainly controlled by Penchrivier. 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	FARMHOUSE NEAR MSH6 :	WNRSA1
2	SHETHKARI DHANYA BAZAR :	WNRSA2
3	RES.HOUSE VITTALWADI WANI:	WNRSA3

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	WANI RAILWAY SIDING	WNRSF1

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	COAL STOCK YARD:	WNRS1
2	NEAR INCHARGE OFFICE:	WNRS2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--

TSET REPORT NO.	RIN/TR/APRIL-20/A56	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	WANI NORTH AREA	SAMPLING METHOD :	LSOP 4
NAME OF PROJECT	WANI RAILWAY SIDING	SAMPLING PLAN :	LQR 47

FARMHOUSE NEAR MSH6 : WNRS1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-04-2020	51	34	20	12
07-04-2020	63	38	24	15
09-04-2020	70	39	26	14
10-04-2020	59	36	22	12
21-04-2020	68	40	25	14
22-04-2020	56	35	21	11
23-04-2020	64	39	23	13
24-04-2020	66	37	24	15
TLV	300	60	120	120

SHETHKARI DHANYA BAZAR : WNRS2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-04-2020	54	25	15	<10
07-04-2020	63	29	17	<10
09-04-2020	68	32	21	13
10-04-2020	56	25	16	<10
21-04-2020	64	30	19	11
22-04-2020	58	26	15	<10
23-04-2020	61	29	17	<10
24-04-2020	57	25	14	<10
TLV	100	60	80	80

RES.HOUSE VITTALWADI WANI: WNRS3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-04-2020	62	22	13	<10
07-04-2020	70	28	15	<10
09-04-2020	71	29	14	<10
10-04-2020	67	24	13	<10
21-04-2020	80	26	16	<10
22-04-2020	75	28	17	<10
23-04-2020	77	27	17	<10
24-04-2020	64	23	14	<10
TLV	100	60	80	80



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

Test Report
Air quality monitoring data

FARMHOUSE NEAR MSH6 : WNRS1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-04-2020	115
07-04-2020	128
09-04-2020	125
10-04-2020	118
21-04-2020	126
22-04-2020	132
23-04-2020	121
24-04-2020	129
TLV	600

SHETHKARI DHANYA BAZAR : WNRS2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-04-2020	98
07-04-2020	108
09-04-2020	104
10-04-2020	96
21-04-2020	110
22-04-2020	112
23-04-2020	99
24-04-2020	107
TLV	200

RES.HOUSE VITTALWADI WANI: WNRS3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-04-2020	98
07-04-2020	115
09-04-2020	111
10-04-2020	95
21-04-2020	114
22-04-2020	96
23-04-2020	103
24-04-2020	108
TLV	200



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
MANAGER (ENV.)

- 1 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: WANI NORTH AREA YEAR: 2020
NAME OF PROJECT: WANI RAILWAY SIDING MONTH: APRIL

COAL STOCK YARD: WNRS1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	07-04-2020	45.7	44.9
APRIL 2020	24-04-2020	45.5	44.8
TLV		75	70

NEAR INCHARGE OFFICE: WNRS2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	07-04-2020	63.7	62.8
APRIL 2020	24-04-2020	62.8	61.9
TLV		55	45

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

CWS TADALI

CWS TADALI

WESTERN COALFIELDS LTD.

JOB NO. 8000003



APRIL 2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

INTRODUCTION

Central Workshop Tadali is located in ChandrapurTahsil of Chandrapur district of Maharashtra State. It is administered by Central Workshop Tadali of Western Coalfields Limited. The drainage of the area is controlled by WardhaRiver. The climate of this area is tropical with The above-mentioned industries are also expected to contribute in increasing the pollution load of the area.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	SUB STATION:	CWSA1
2	NEAR FILTER PLANT:	CWSA2
3	ADMINSTRATIVE BUILDING:	CWSA3
4	CWS COLONY:	CWSA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	ETP DISCHARGE:	CWSW1

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NEAR WORKSHOP:	CWSN1
2	COLONY:	CWSN2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--

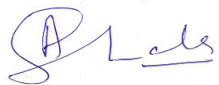
TSET REPORT NO.	RIN/TR/APRIL-20/A41	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 30.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] &PM-2.5		
NAME OF AREA	CWS TADALI	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	CWS TADALI	SAMPLING PLAN : LQR 47	

SUB STATION: CWSA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-04-2020	42	21	12	<10
28-04-2020	51	23	14	<10
TLV	300	60	120	120

NEAR FILTER PLANT: CWSA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-04-2020	41	18	11	<10
27-04-2020	59	22	14	<10
TLV	300	60	120	120

ADMINISTRATIVE BUILDING: CWSA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-04-2020	61	30	18	10
27-04-2020	66	28	17	<10
TLV	300	60	120	120

CWS COLONY: CWSA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-04-2020	72	32	19	11
27-04-2020	88	34	21	12
TLV	300	60	120	120



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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.

Test Report

Air quality monitoring data

SUB STATION: CWSA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-04-2020	83
28-04-2020	102
TLV	600

NEAR FILTER PLANT: CWSA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-04-2020	81
27-04-2020	114
TLV	600

ADMINISTRATIVE BUILDING: CWSA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-04-2020	84
27-04-2020	98
TLV	600

CWS COLONY: CWSA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-04-2020	94
27-04-2020	124
TLV	600



SCIENTIFIC ASSISTANT




DEEPANSHU SAHU
MANAGER (ENV.)

- 1 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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	--

TSET REPORT NO.	RIN/TR/APRIL-20/W41	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 30.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	CWS TADALI	SAMPLING METHOD	LSOP 5
NAME OF PROJECT	CWS TADALI	SAMPLING PLAN	LQR 47

ETP DISCHARGE: CWSW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
14-04-2020	6.27	64	104	4.4
28-04-2020	6.74	44	88	2.8
TLV	5.5 - 9.0	100	250	10



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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: CWS TADALI
NAME OF PROJECT: CWS TADALI

YEAR: 2020
MONTH: APRIL

NEAR WORKSHOP: CWSN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	11-04-2020	58.5	57.9
APRIL 2020	20-04-2020	57.6	56.8
TLV		75	70

COLONY: CWSN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	11-04-2020	44.7	43.8
APRIL 2020	20-04-2020	43.6	42.9
TLV		55	45

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

AMBARA OC

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



APRIL-2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	NOISE LEVEL DATA	4

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.

NOISE LEVEL DATA

NAME OF AREA: KANHAN AREA
NAME OF PROJECT: AMBARA OC

YEAR: 2020
MONTH: APRIL

MANAGER OFFICE: KAON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	14-04-2020	49.7	46.1
APRIL 2020	25-04-2020	45.2	41.6
TLV		75	70

COLONY (MOHAN/MAORI): KAON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	14-04-2020	44.2	43.8
APRIL 2020	25-04-2020	44.5	41.2
TLV		55	45

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

AREA WORKSHOP

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



Apr-20

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	NOISE LEVEL DATA	4

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.

NOISE LEVEL DATA

NAME OF AREA: KANHAN AREA
NAME OF PROJECT: AREA WORKSHOP

YEAR: 2020
MONTH: APRIL

WORKSHOP PREMISES: KAWN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	14-04-2020	47.4	44.5
APRIL 2020	25-04-2020	43.6	41.5
TLV		75	70

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

DAMUA OC

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



APRIL 2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
4	NOISE LEVEL DATA	6

INTRODUCTION

Damua OC Project is located in Chhindwara district of Madhya Pradesh. The project is administered by Kanhan Area of Western Coalfields Limited. Drainage of the area is mainly controlled by Kanhan river and Bhor nalla (a tributary of Kanhan river).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	OC OFFICE :	KDOA1
2	SAM OFFICE- DAMUA:	KDOA2
3	RESCUE STATION (NEAR INCLINE 24&25):	KDOA3
4	NANDORA VILLAGE:	KDOA4

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NEAR MANAGER OFFICE:	KDON1

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--

TSET REPORT NO.	RIN/TR/APRIL-20/A78	DATE OF ISSUE	23-05-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	DAMUA OC	SAMPLING PLAN : LQR 47	

OC OFFICE : KDOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
24-04-2020	41	15	9	<10
TLV	300	60	120	120

SAM OFFICE- DAMUA: KDOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
24-04-2020	67	23	18	<10
TLV	300	60	120	120

RESCUE STATION (NEAR INCLINE 24&25): KDOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
24-04-2020	96	42	26	15
TLV	300	60	120	120

NANDORA VILLAGE: KDOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
25-04-2020	41	27	17	<10
TLV	100	60	80	80

Latimkharne

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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.

Test Report

Air quality monitoring data

OC OFFICE : KDOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
24-04-2020	74
TLV	600

SAM OFFICE- DAMUA: KDOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
24-04-2020	112
TLV	600

RESCUE STATION (NEAR INCLINE 24&25): KDOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
24-04-2020	195
TLV	600

NANDORA VILLAGE: KDOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
25-04-2020	67
TLV	200

L. Ambhure

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
MANAGER (ENV.)

- 1 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
NAME OF PROJECT: DAMUA OC

YEAR: 2020
MONTH: APRIL

NEAR MANAGER OFFICE: KDON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	14-04-2020	46.4	43.5
APRIL 2020	25-04-2020	44.8	42.5
TLV		75	70

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

DAMUA UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



APRIL 2020

Environment Laboratory
NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
4	NOISE LEVEL DATA	6

INTRODUCTION

Damua UG is located in Chhindwara district of Madhya Pradesh. The project is administered by Kanhan Area of Western Coalfields Limited. Drainage of the area is mainly controlled by Kanhan river and Bhor nalla (a tributary of Kanhan river). 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- DAMUA:	KDUA1
2	RESCUE STATION (NEAR INCLINE 24&25):	KDUA2
3	NANDORA VILLAGE:	KDUA3

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	COLONY:	KDUN1

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.

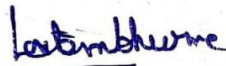
Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--


TSET REPORT NO.	RIN/TR/APRIL-20/A77	DATE OF ISSUE	23-05-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NO _x (06:2006), SO ₂ (02:2001)] &PM-2.5		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD :	LSOP 4
NAME OF PROJECT	DAMUA UG	SAMPLING PLAN :	LQR 47

SAM OFFICE- DAMUA: KDUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
24-04-2020	67	23	18	<10
TLV	300	60	120	120

RESCUE STATION (NEAR INCLINE 24&25): KDUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
24-04-2020	96	42	26	15
TLV	300	60	120	120

NANDORA VILLAGE: KDUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
25-04-2020	41	27	17	<10
TLV	100	60	80	80


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

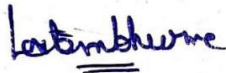
Test Report

Air quality monitoring data

SAM OFFICE- DAMUA: KDUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
24-04-2020	112
TLV	600

RESCUE STATION (NEAR INCLINE 24&25): KDUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
24-04-2020	195
TLV	600

NANDORA VILLAGE: KDUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
25-04-2020	67
TLV	200



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)

- 1 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: DAMUA UG **MONTH: APRIL**

COLONY: KDUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	14-04-2020	45.1	44.7
APRIL 2020	25-04-2020	43.8	40.1
TLV		75	70

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

GHORAWARI OC

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



APRIL-2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
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	PALACHAURI:	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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--

TSET REPORT NO.	RIN/TR/APRIL-20/A76	DATE OF ISSUE	23-05-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NO _x (06:2006), SO ₂ (02:2001)] &PM-2.5		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD :	LSOP 4
NAME OF PROJECT	GHORAWARI OC	SAMPLING PLAN :	LQR 47

MANAGER OFFICE-OC : KGOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
25-04-2020	32	15	9	<10
TLV	300	60	120	120

SAM - OFFICE GHORAWARI : KGOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
25-04-2020	36	8	<6	<10
TLV	300	60	120	120

COLONY- HEALTH CENTRE JHARNA: KGOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
25-04-2020	66	12	8	<10
TLV	100	60	80	80

PANARA VILLAGE: KGOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
24-04-2020	45	12	8	<10
TLV	100	60	80	80

Latimburme

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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.

Test Report

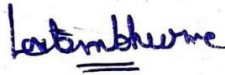
Air quality monitoring data

MANAGER OFFICE-OC : KGOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
25-04-2020	74
TLV	600

SAM - OFFICE GHORAWARI : KGOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
25-04-2020	89
TLV	600

COLONY- HEALTH CENTRE JHARNA: KGOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
25-04-2020	95
TLV	200

PANARA VILLAGE: KGOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
24-04-2020	76
TLV	200



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)

- 1 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.

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

JHARNA - UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



APRIL-2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
4	NOISE LEVEL DATA	6

INTRODUCTION

Jharna / Ghorawadi 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	MANAGER OFFICE- JHARNA UG :	KJUA1
2	SAM OFFICE- GHORAWARI:	KJUA2
3	COLONY- HEALTH CENTRE JHARNA:	KJUA3
4	PANARA VILLAGE:	KJUA4

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE:	KJUN1
2	COLONY:	KJUN2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--

TSET REPORT NO.	RIN/TR/APRIL-20/A75	DATE OF ISSUE	23-05-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	JHARNA - UG	SAMPLING PLAN : LQR 47	

MANAGER OFFICE- JHARNA UG : KJUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
25-04-2020	88	18	11	<10
TLV	300	60	120	120

SAM OFFICE- GHORAWARI: KJUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
25-04-2020	36	8	<6	<10
TLV	300	60	120	120

COLONY- HEALTH CENTRE JHARNA: KJUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
25-04-2020	66	12	8	<10
TLV	100	60	80	80

PANARA VILLAGE: KJUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
24-04-2020	45	12	8	<10
TLV	100	60	80	80

Latambhume

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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.

Test Report

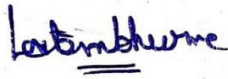
Air quality monitoring data

MANAGER OFFICE- JHARNA UG : KJUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
25-04-2020	128
TLV	600

SAM OFFICE- GHORAWARI: KJUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
25-04-2020	89
TLV	600

COLONY- HEALTH CENTRE JHARNA: KJUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
25-04-2020	95
TLV	200

PANARA VILLAGE: KJUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
24-04-2020	76
TLV	200



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)

- 1 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.

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

MOHAN/ MAORI UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



APRIL-2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

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.

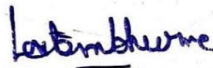
WATER: Water quality is monitored on fortnightly basis


NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	--

TSET REPORT NO.	RIN/TR/MARCH-20/W73	DATE OF ISSUE	23-05-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
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 COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
14-04-2020	6.8	36	40	<2
24-04-2020	6.7	40	44	<2
TLV	5.5 - 9.0	100	250	10


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

1	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: MOHAN/ MAORI UG **MONTH: APRIL**

FAN HOUSE: KMUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	14-04-2020	68.4	67.2
APRIL 2020	25-04-2020	69.6	67.4
TLV		75	70

COLONY: KMUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	14-04-2020	45.7	43.6
APRIL 2020	25-04-2020	45.6	43.8
TLV		55	45

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

NANDAN UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



APRIL-2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	---

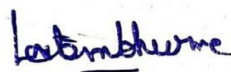
TSET REPORT NO.	RIN/TR/APRIL-20/A71	DATE OF ISSUE	23-05-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	NANDAN UG	SAMPLING PLAN : LQR 47	

SAM OFFICE- NANDAN I UG: KNUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-04-2020	52	23	14	<10
24-04-2020	43	21	13	<10
TLV	300	60	120	120

PIT OFFICE- NANDAN II UG: KNUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-04-2020	41	15	9	<10
23-04-2020	44	16	10	<10
TLV	300	60	120	120

HEALTH CENTRE- NANDAN UG: KNUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-04-2020	41	20	12	<10
23-04-2020	47	24	15	<10
TLV	100	60	80	80

NANDAN WATER FILTER PLANT: KNUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-04-2020	15	11	6	<10
23-04-2020	27	12	8	<10
TLV	100	60	80	80



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

Test Report

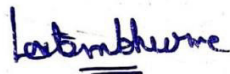
Air quality monitoring data

SAM OFFICE- NANDAN I UG: KNUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-04-2020	81
24-04-2020	75
TLV	600

PIT OFFICE- NANDAN II UG: KNUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-04-2020	72
23-04-2020	76
TLV	600

HEALTH CENTRE- NANDAN UG: KNUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-04-2020	74
23-04-2020	82
TLV	200

NANDAN WATER FILTER PLANT: KNUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-04-2020	41
23-04-2020	75
TLV	200



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
MANAGER (ENV.)


- 1 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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	---

TSET REPORT NO.	RIN/TR/APRIL-20/W71	DATE OF ISSUE	23-05-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	NANDAN UG	SAMPLING PLAN : LQR 47	

MINE DISCHARGE: KNUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
14-04-2020	7.3	26	32	<2
23-04-2020	7.1	22	28	<2
TLV	5.5 - 9.0	100	250	10


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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: NANDAN UG **MONTH: APRIL**

FAN HOUSE UG II: KNUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	14-04-2020	63.4	41.2
APRIL 2020	25-04-2020	62.7	57.5
TLV		75	70

COLONY: KNUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	14-04-2020	45.1	43.9
APRIL 2020	25-04-2020	43.9	42.2
TLV		55	45

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

NANDAN WASHERY

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



APRIL -2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
4	NOISE LEVEL DATA	6

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--

TSET REPORT NO.	RIN/TR/APRIL-20/A70	DATE OF ISSUE	23-05-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	NANDAN WASHERY	SAMPLING PLAN	LQR 47

SUBSTATION : KNWA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-04-2020	41	21	12	<10
23-04-2020	45	24	15	<10
TLV	300	60	120	120

SAM OFFICE- NANDAN I UG: KNWA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-04-2020	52	23	14	<10
24-04-2020	43	21	13	<10
TLV	300	60	120	120

COLONY-GUEST HOUSE: KNWA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-04-2020	66	22	13	<10
23-04-2020	62	20	13	<10
TLV	100	60	80	80

NANDAN WATER FILTER PLANT: KNWA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-04-2020	15	11	6	<10
23-04-2020	27	12	8	<10
TLV	100	60	80	80

Latambhume

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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.

Test Report

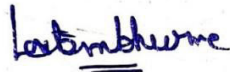
Air quality monitoring data

SUBSTATION : KNWA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-04-2020	74
23-04-2020	81
TLV	600

SAM OFFICE- NANDAN I UG: KNWA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-04-2020	81
24-04-2020	75
TLV	600

COLONY-GUEST HOUSE: KNWA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-04-2020	105
23-04-2020	97
TLV	200

NANDAN WATER FILTER PLANT: KNWA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-04-2020	41
23-04-2020	75
TLV	200



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)

- 1 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: NANDAN WASHERY **MONTH: APRIL**

WASHERY: KNWN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	14-04-2020	47.7	44.4
APRIL 2020	25-04-2020	45.7	43.9
TLV		75	70

COLONY: KNWN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	14-04-2020	44.6	43.9
APRIL 2020	25-04-2020	44.9	42.4
TLV		55	45

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

TANDSI UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



APRIL-2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	---

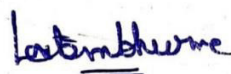
TSET REPORT NO.	RIN/TR/APRIL-20/A79	DATE OF ISSUE	23-05-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NO _x (06:2006), SO ₂ (02:2001)] &PM-2.5		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD	: LSOP 4
NAME OF PROJECT	TANDSI UG	SAMPLING PLAN	: LQR 47

WORKSHOP : KTUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-04-2020	74	29	17	10
22-04-2020	67	26	16	<10
TLV	300	60	120	120

LAMP ROOM: KTUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-04-2020	44	20	12	<10
22-04-2020	40	18	11	<10
TLV	300	60	120	120

COLONY-NEAR HEALTH CENTRE: KTUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-04-2020	25	15	9	<10
22-04-2020	34	25	16	<10
TLV	100	60	80	80

JET HOSTEL: KTUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-04-2020	32	24	14	<10
22-04-2020	28	22	14	<10
TLV	100	60	80	80



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

Test Report

Air quality monitoring data

WORKSHOP : KTUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-04-2020	114
22-04-2020	105
TLV	600

LAMP ROOM: KTUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-04-2020	87
22-04-2020	82
TLV	600

COLONY-NEAR HEALTH CENTRE: KTUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-04-2020	74
22-04-2020	95
TLV	200

JET HOSTEL: KTUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-04-2020	91
22-04-2020	88
TLV	200

Lestimbhurne

SCIENTIFIC ASSISTANT

D. Sahu

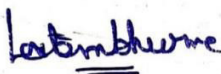
DEEPANSHU SAHU
MANAGER (ENV.)


- 1 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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	--

TSET REPORT NO.	RIN/TR/APRIL-20/W79	DATE OF ISSUE	23-05-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD :	LSOP 5
NAME OF PROJECT	TANDSI UG	SAMPLING PLAN :	LQR 47

MINE DISCHARGE: KTUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
14-04-2020	7.1	22	36	<2
22-04-2020	7.4	26	40	<2
TLV	5.5 - 9.0	100	250	10


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

1	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: TANDSI UG **MONTH: APRIL**

FAN HOUSE: KTUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	14-04-2020	70	68.5
APRIL 2020	25-04-2020	69.7	67.8
TLV		75	70

COLONY: KTUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	14-04-2020	44.4	42.7
APRIL 2020	25-04-2020	45.8	42.7
TLV		55	45

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

CHATTARPUR-I & II UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



APRIL 2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

INTRODUCTION

Chattarpur - I & II UG Project is located in Betul district of Madhya Pradesh. The project is administered by Pathekhera Area of Western Coalfields Limited. Drainage is mainly controlled by two / three drains, which drains into the Tawa river. 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- CHATTARPUR I UG:	PKCUA1
2	SAM OFFICE:	PKCUA2
3	SUBSTATION- CHATTARPUR II UG:	PKCUA3
4	CHATTARPUR VILLAGE:	PKCUA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE DISCHARGE-I UG:	PKCUW1
2	MINE DISCHARGE-II UG:	PKCUW2

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE- I UG:	PKCUN1
2	FAN HOUSE- II UG:	PKCUN2
3	COLONY:	PKCUN3

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--

TSET REPORT NO.	RIN/TR/APRIL -20/A81	DATE OF ISSUE	23-05-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NO _x (06:2006), SO ₂ (02:2001)] & PM-2.5		
NAME OF AREA	PATHAKHERA AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	CHATTARPUR-I & II UG	SAMPLING PLAN : LQR 47	

SUBSTATION- CHATTARPUR I UG: PKCUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-04-2020	85	40	24	14
26-04-2020	100	36	23	12
TLV	300	60	120	120

SAM OFFICE: PKCUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-04-2020	106	38	22	13
26-04-2020	92	38	18	<10
TLV	300	60	120	120

SUBSTATION- CHATTARPUR II UG: PKCUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-04-2020	85	40	24	14
26-04-2020	85	30	19	<10
TLV	300	60	120	120

CHATTARPUR VILLAGE: PKCUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-04-2020	67	30	18	10
26-04-2020	40	12	8	<10
TLV	100	60	80	80



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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.

Test Report

Air quality monitoring data

SUBSTATION- CHATTARPUR I UG: PKCUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-04-2020	122
26-04-2020	180
TLV	600

SAM OFFICE: PKCUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-04-2020	193
26-04-2020	172
TLV	600

SUBSTATION- CHATTARPUR II UG: PKCUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-04-2020	165
26-04-2020	168
TLV	600

CHATTARPUR VILLAGE: PKCUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-04-2020	92
26-04-2020	77
TLV	200



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)

- 1 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.


Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	--

TSET REPORT NO.	RIN/TR/APRIL -20/W81	DATE OF ISSUE	23-05-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	PATHAKHERA AREA	SAMPLING METHOD :	LSOP 5
NAME OF PROJECT	CHATTARPUR-I & II UG	SAMPLING PLAN :	LQR 47

MINE DISCHARGE-I UG: PKCUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
07-04-2020	7.3	32	40	<2
26-04-2020	7.57	38	36	<2
TLV	5.5 - 9.0	100	250	10

MINE DISCHARGE-II UG: PKCUW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
07-04-2020	7.98	28	36	<2
26-04-2020	7.89	32	40	<2
TLV	5.5 - 9.0	100	250	10


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

1	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: PATHAKHERA AREA YEAR: 2020
 NAME OF PROJECT: CHATTARPUR-I & II UG MONTH: APRIL

FAN HOUSE- I UG: PKCUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	10-04-2020	69.7	68.1
APRIL 2020	20-04-2020	69.2	67.4
TLV		75	70
FAN HOUSE- II UG: PKCUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	10-04-2020	69.4	67.9
APRIL 2020	20-04-2020	69.8	67.2
TLV		75	70
COLONY: PKCUN3			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	10-04-2020	45.5	43.7
APRIL 2020	20-04-2020	45.4	41.7
TLV		75	70

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. 8000004



APRIL -2020

Environment Laboratory
NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 TO 7
3	WATER QUALITY MONITORING DATA	8
4	NOISE LEVEL DATA	9

INTRODUCTION

Sarni UG Project is located in Betul district of Madhya Pradesh. The project is administered by Pathakhera Area of Western Coalfields Limited. The drainage of the area is mainly controlled by Tawariver. 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 SARNI UG:	PKSUA1
2	NEAR DY. CME OFFICE:	PKSUA2
3	GM OFFICE ENTRANCE GATE:	PKSUA3
4	PATHAKHERA COLONY:	PKSUA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP:	PKSUF1

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE DISCHARGE:	PKSUW1

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE:	PKSUN1
2	COLONY:	PKSUN2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	---

TSET REPORT NO.	RIN/TR/APRIL -20/A83	DATE OF ISSUE	23-05-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	PATHAKHERA AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	SARNI UG	SAMPLING PLAN : LQR 47	

SUBSTATION SARNI UG: PKSUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
09-04-2020	90	32	19	11
18-04-2020	80	34	15	<10
TLV	300	60	120	120

NEAR DY. CME OFFICE: PKSUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-04-2020	86	38	22	13
30-04-2020	80	27	17	<10
TLV	300	60	120	120

GM OFFICE ENTRANCE GATE: PKSUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
09-04-2020	36	24	14	<10
29-04-2020	75	24	15	<10
TLV	100	60	80	80

PATHAKHERA COLONY: PKSUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
09-04-2020	67	40	24	14
19-04-2020	60	20	13	<10
TLV	100	60	80	80



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

FUGITIVE DUST MONITORING DATA

CHP: PKSUF1		
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)	
	PM10	PM _{2.5}
DETECTION LIMIT	5	2
09-04-2020	178	52



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

Test Report

Air quality monitoring data

SUBSTATION SARNI UG: PKSUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
09-04-2020	177
18-04-2020	151
TLV	600

NEAR DY. CME OFFICE: PKSUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-04-2020	124
30-04-2020	118
TLV	600

GM OFFICE ENTRANCE GATE: PKSUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
09-04-2020	87
29-04-2020	128
TLV	200

PATHAKHERA COLONY: PKSUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
09-04-2020	108
19-04-2020	108
TLV	200



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
MANAGER (ENV.)

- | | |
|---|--|
| 1 | 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. |

FUGITIVE DUST MONITORING DATA


CHP: PKSUF1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
09-04-2020	302



SCIENTIFIC ASSISTANT

DEEPANSHU SAHU
MANAGER (ENV.)

- | | |
|---|--|
| 1 | 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. |

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	---

TSET REPORT NO.	RIN/TR/APRIL -20/W83	DATE OF ISSUE	23-05-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	PATHAKHERA AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	SARNI UG	SAMPLING PLAN : LQR 47	

MINE DISCHARGE: PKSUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
09-04-2020	7.76	28	40	<2
18-04-2020	7.36	24	28	<2
TLV	5.5 - 9.0	100	250	10



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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: PATHAKHERA AREA YEAR: 2020
NAME OF PROJECT: SARNI UG MONTH: APRIL

FAN HOUSE: PKSUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	10-04-2020	69.9	68.1
APRIL 2020	20-04-2020	69.2	67.9
TLV		75	70

COLONY: PKSUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	10-04-2020	44.7	43.2
APRIL 2020	20-04-2020	44.5	43.7
TLV		55	45

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

SHOBHAPUR UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



APRIL -2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 7
3	WATER QUALITY MONITORING DATA	8
4	NOISE LEVEL DATA	9

INTRODUCTION

Shobhapur UG Project is located in Betul district of Madhya Pradesh. The project is administered by Pathakheda Area of Western Coalfields Limited. The drainage of the area is mainly controlled by Tawa River. RET nalla is the most important drainage course running through the area flowing into Tawa river. A no. of small nalla and gullies connect RET nalla. 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:	PKSUA1
2	SUBSTATION:	PKSUA2
3	SHOBHAPUR VILLAGE:	PKSUA3
4	SHOBHAPUR COLONY:	PKSUA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP:	PKSUF1

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE DISCHARGE:	PKSUW1

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE:	PKSUN1
2	COLONY:	PKSUN2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	--

TSET REPORT NO.	RIN/TR/APRIL -20/A82	DATE OF ISSUE	23-05-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NO _x (06:2006), SO ₂ (02:2001)] &PM-2.5		
NAME OF AREA	PATHAKHERA AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	SHOBHAPUR UG	SAMPLING PLAN : LQR 47	

SAM OFFICE: PKSUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-04-2020	85	35	21	12
21-04-2020	70	24	15	<10
TLV	300	60	120	120

SUBSTATION: PKSUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-04-2020	32	27	16	<10
28-04-2020	52	17	11	<10
TLV	300	60	120	120

SHOBHAPUR VILLAGE: PKSUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-04-2020	58	20	12	<10
20-04-2020	50	16	10	<10
TLV	100	60	80	80

SHOBHAPUR COLONY: PKSUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-04-2020	42	27	16	<10
20-04-2020	45	15	9	<10
TLV	100	60	80	80



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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.

FUGITIVE DUST MONITORING DATA

CHP: PKSUF1		
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)	
	PM10	PM _{2.5}
DETECTION LIMIT	5	2
08-04-2020	173	50



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

Test Report

Air quality monitoring data

SAM OFFICE: PKSUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-04-2020	142
21-04-2020	138
TLV	600

SUBSTATION: PKSUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-04-2020	63
28-04-2020	99
TLV	600

SHOBHAPUR VILLAGE: PKSUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-04-2020	97
20-04-2020	90
TLV	200

SHOBHAPUR COLONY: PKSUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-04-2020	87
20-04-2020	96
TLV	200

SCIENTIFIC ASSISTANT

DEEPANSHU SAHU
MANAGER (ENV.)

- 1 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.

FUGITIVE DUST MONITORING DATA

CHP: PKSUF1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-04-2020	264



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)


- | | |
|---|--|
| 1 | 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. |

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	--

TSET REPORT NO.	RIN/TR/APRIL-20/W82	DATE OF ISSUE	23-05-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	PATHAKHERA AREA	SAMPLING METHOD	LSOP 5
NAME OF PROJECT	SHOBHAPUR UG	SAMPLING PLAN	LQR 47

MINE DISCHARGE: PKSUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
08-04-2020	8.05	20	32	<2
20-04-2020	7.26	20	24	<2
TLV	5.5 - 9.0	100	250	10


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

1	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: PATHAKHERA AREA **YEAR: 2020**
NAME OF PROJECT: SHOBHAPUR UG **MONTH: APRIL**

FAN HOUSE: PKSUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	10-04-2020	70.1	69.2
APRIL 2020	20-04-2020	69.1	68.2
TLV		75	70

COLONY: PKSUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	10-04-2020	45.4	43.8
APRIL 2020	20-04-2020	44.9	42.5
TLV		44.5	45

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

TAWA II UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



APRIL 2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

INTRODUCTION

Tawa UG Project is located in Betul district of Madhya Pradesh. The project is administered by Pathakhera Area of Western Coalfields Limited. The drainage of the area is mainly controlled by Tawa river. A number of seasonal nullahs also flow through the area. 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- TAWA II:	PKT2UA1
2	SAM OFFICE:	PKT2UA2
3	MPEB COLONY:	PKT2UA3
4	HIRA PALLA/BHAGIKHAAPA VILLAGE:	PKT2UA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE DISCHARGE:	PKTUW1

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE:	PKTUN1
2	COLONY:	PKTUN2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report quality monitoring data	Air	 TC-7102
---	---	-----	--

TSET REPORT NO.	RIN/TR/APRIL -20/A85	DATE OF ISSUE	23-05-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] &PM-2.5		
NAME OF AREA	PATHAKHERA AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	TAWA II UG	SAMPLING PLAN : LQR 47	

MANAGER OFFICE- TAWA II: PKT2UA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
04-04-2020	42	27	16	<10
19-04-2020	89	30	19	<10
TLV	300	60	120	120

SAM OFFICE: PKT2UA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
03-04-2020	44	28	17	10
18-04-2020	70	21	13	<10
TLV	300	60	120	120

MPEB COLONY: PKT2UA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
03-04-2020	27	16	9	<10
18-04-2020	65	18	11	<10
TLV	100	60	80	80

HIRA PALLA/BHAGIKHAAPA VILLAGE: PKT2UA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
03-04-2020	55	18	11	<10
18-04-2020	43	15	9	<10
TLV	100	60	80	80



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	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.

Test Report

Air quality monitoring data

MANAGER OFFICE- TAWA II: PKT2UA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
04-04-2020	102
19-04-2020	166
TLV	600

SAM OFFICE: PKT2UA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
03-04-2020	125
18-04-2020	136
TLV	600

MPEB COLONY: PKT2UA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
03-04-2020	68
18-04-2020	120
TLV	200

HIRA PALLA/BHAGIKHAAPA VILLAGE: PKT2UA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
03-04-2020	84
18-04-2020	78
TLV	200



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
MANAGER (ENV.)


- | | |
|---|--|
| 1 | 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. |

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	---

TSET REPORT NO.	RIN/TR/APRIL-20/W85	DATE OF ISSUE	23-05-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	PATHAKHERA AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	TAWA II UG	SAMPLING PLAN : LQR 47	

MINE DISCHARGE: PKTUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
04-04-2020	7.48	30	36	<2
19-04-2020	7.84	22	32	<2
TLV	5.5 - 9.0	100	250	10


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

1	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: PATHAKHERA AREA YEAR: 2020
NAME OF PROJECT: TAWA II UG MONTH: APRIL

FAN HOUSE: PKTUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	04-04-2020	70.2	69.1
APRIL 2020	21-04-2020	70.6	68.5
TLV		75	70

COLONY: PKTUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	04-04-2020	45.6	43.9
APRIL 2020	21-04-2020	44.4	42.1
TLV		55	45

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

TAWA UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



APRIL 2020

Environment Laboratory
NABL Accredited vide Cert. No. TC-7102

CMPDI

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

AN ISO 9001:2015 COMPANY

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

INTRODUCTION

Tawa UG Project is located in Betul district of Madhya Pradesh. The project is administered by Pathakhera Area of Western Coalfields Limited. The drainage of the area is mainly controlled by Tawa river. A number of seasonal nullahs also flow through the area. 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:	PKTUA1
2	MANAGER OFFICE- TAWA II:	PKTUA2
3	MPEB COLONY:	PKTUA3
4	HIRA PALLA/BHAGIKHAAPA VILLAGE:	PKTUA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE DISCHARGE:	PKTUW1

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE:	PKTUN1
2	COLONY:	PKTUN2

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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
---	--	---

TSET REPORT NO.	RIN/TR/APRIL-20/A84	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	PATHAKHERA AREA	SAMPLING METHOD :	LSOP 4
NAME OF PROJECT	TAWA UG	SAMPLING PLAN :	LQR 47


SAM OFFICE: PKTUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
03-04-2020	44	28	17	10
18-04-2020	70	21	13	<10
TLV	300	60	120	120

MANAGER OFFICE- TAWA II: PKTUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
04-04-2020	42	27	16	<10
19-04-2020	89	30	19	<10
TLV	300	60	120	120

MPEB COLONY: PKTUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
03-04-2020	27	16	9	<10
18-04-2020	65	18	11	<10
TLV	100	60	80	80

HIRA PALLA/BHAGIKHAAPA VILLAGE: PKTUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
03-04-2020	55	18	11	<10
18-04-2020	43	15	9	<10
TLV	100	60	80	80


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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. |

Test Report

Air quality monitoring data

SAM OFFICE: PKTUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
03-04-2020	125
18-04-2020	136
TLV	600

MANAGER OFFICE- TAWA II: PKTUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
04-04-2020	102
19-04-2020	166
TLV	600

MPEB COLONY: PKTUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
03-04-2020	68
18-04-2020	120
TLV	200


HIRA PALLA/BHAGIKHAAPA VILLAGE: PKTUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
03-04-2020	84
18-04-2020	78
TLV	200



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
MANAGER (ENV.)

- 1 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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	---

TSET REPORT NO.	RIN/TR/APRIL-20/A84	DATE OF ISSUE	23.05.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	PATHAKHERA AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	TAWA UG	SAMPLING PLAN : LQR 47	

MINE DISCHARGE: PKTUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
18-04-2020	8.04	30	36	<2
TLV	5.5 - 9.0	100	250	10



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | 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: PATHAKHERA AREA YEAR: 2020
NAME OF PROJECT: TAWA UG MONTH: APRIL

FAN HOUSE: PKTUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	04-04-2020	69.7	67.4
APRIL 2020	21-04-2020	69.2	67.9
TLV		75	70

COLONY: PKTUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
APRIL 2020	04-04-2020	45.6	43.9
APRIL 2020	21-04-2020	44.4	42.1
TLV		55	45