

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



FEBRUARY -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
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

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/FEBRUARY -20/A20	DATE OF ISSUE	31-03-2020
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	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 $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-02-2020	160	104	44	24	13
22-02-2020	188	124	66	21	11
TLV	600	300	60	120	120

SUBSTATION: BBOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-02-2020	206	124	68	28	15
22-02-2020	214	142	73	19	13
TLV	600	300	60	120	120

PREMISES OF SUB AREA OFFICE: BBOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-02-2020	229	132	64	26	12
22-02-2020	256	154	67	16	8
TLV	600	300	60	120	120

FILTER PLANT COLONY: BBOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-02-2020	184	106	52	23	11
22-02-2020	218	134	79	13	7
TLV	200	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.

FUGITIVE DUST MONITORING DATA

CHP/ COAL LOADING POINT: BBOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM _{2.5}
DETECTION LIMIT	5	5	2
12-02-2020	376	228	114

WEIGHT BRIDGE: BBOF2			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM _{2.5}
DETECTION LIMIT	5	5	2
12-02-2020	836	512	234

RAILWAY SIDING: BBOF3			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM _{2.5}
DETECTION LIMIT	5	5	2
12-02-2020	704.00	334.00	118.00



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. |

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

TSET REPORT NO.	RIN/TR/FEBRUARY -20/W20	DATE OF ISSUE	31-03-2020
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	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
12-02-2020	7.37	44	40	<2
22-02-2020	7.52	56	44	<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
12-02-2020	7.52	30	28	<2
22-02-2020	7.38	34	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: BALLARPUR AREA
NAME OF PROJECT: BALLARPUR OC

YEAR: 2020
MONTH: FEBRUARY

CHP: BBON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	07-02-2020	60.3	58.7
FEB 2020	25-02-2020	60.9	59.2
TLV		75	70

COLONY (BALLARPUR UG): BBON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	07-02-2020	44.3	42.8
FEB 2020	25-02-2020	43.8	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

BALLARPUR UG

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



FEBRUARY 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
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

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/FEBRUARY -20/A19	DATE OF ISSUE	31-03-2020
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	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 $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-02-2020	160	104	44	24	13
25-02-2020	188	124	66	21	11
TLV	600	300	60	120	120

SUBSTATION: BBUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-02-2020	206	124	68	28	15
24-02-2020	214	142	73	19	13
TLV	600	300	60	120	120

PREMISES OF SUB AREA OFFICE: BBUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-02-2020	229	132	64	26	12
22-02-2020	256	154	67	16	8
TLV	600	300	60	120	120

FILTER PLANT COLONY: BBUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-02-2020	184	106	52	23	11
22-02-2020	218	134	79	13	7
TLV	200	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.

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

TSET REPORT NO.	RIN/TR/FEBRUARY -20/W19	DATE OF ISSUE	31-03-2020
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	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
12-02-2020	7.68	40	36	<2
22-02-2020	7.52	32	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: BALLARPUR AREA YEAR: 2020
NAME OF PROJECT: BALLARPUR UG MONTH: FEBRUARY

FAN HOUSE: BBUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	07-02-2020	69.9	68.3
FEB 2020	25-02-2020	68.5	67.2
TLV		75	70

COLONY: BBUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	07-02-2020	44.3	42.8
FEB 2020	25-02-2020	43.8	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

GOURI- I& II (A) OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



FEBRUARY 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
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

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/FEBRUARY -20/A21	DATE OF ISSUE	31-03-2020
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	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 $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-02-2020	398	232	108	24	11
25-02-2020	430	248	112	15	7
TLV	600	300	60	120	120

SAM OFFICE GOURI- SUB AREA: BGOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-02-2020	384	212	98	21	9
25-02-2020	400	242	112	25	13
TLV	600	300	60	120	120

GOURI COLONY/ FILTER PLANT: BGOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-02-2020	196	114	62	23	12
26-02-2020	212	126	64	18	11
TLV	200	100	60	80	80

GOURI VILLAGE: BGOF2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-02-2020	172	108	58	28	14
26-02-2020	196	124	64	20	11
TLV	200	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.

FUGITIVE DUST MONITORING DATA


CHP: BGOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
07-02-2020	432	224	98

WEIGHT BRIDGE: #REF!			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
07-02-2020	734	314	142


 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. |


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

TSET REPORT NO.	RIN/FEBRUARY -20/W21	DATE OF ISSUE	31-03-2020
NAME OF CUSTOMER	GM(ENV.),WCL, 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	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
07-02-2020	7.58	40	36	<2
25-02-2020	7.53	38	36	<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
07-02-2020	7.58	34	32	<2
25-02-2020	7.34	42	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

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

CHP: BGON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	07-02-2020	59.6	57.2
FEB 2020	25-02-2020	58.2	57.7
TLV		75	70

GOURI COLONY: BGON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	07-02-2020	45.1	44.2
FEB 2020	25-02-2020	44.6	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

GOURI DEEP OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



FEBRUARY 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
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

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/FEBRUARY -20/A23	DATE OF ISSUE	31-03-2020
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), NO _x (06:2006), SO ₂ (02:2001)], PM-2.5 & SPM*		
NAME OF AREA	BALLARPUR AREA	Sampling Method :	LSOP 4
NAME OF PROJECT	GOURI DEEP OC	Sampling Plan :	LQR 47


MANAGER OFFICE: BGDO1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-02-2020	329	182	86	27	14
23-02-2020	329	197	87	22	14
TLV	600	300	60	120	120

MUTRA VILLAGE: BGDO2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-02-2020	181	97	38	19	8
23-02-2020	198	112	53	19	9
TLV	200	100	60	80	80

GOYEGAON VILLAGE: BGDO3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-02-2020	193	106	44	18	9
23-02-2020	163	87	48	13	8
TLV	200	100	60	80	80

ANTARGAON VILLAGE: BGDO4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-02-2020	166	108	48	21	10
23-02-2020	180	118	57	24	15
TLV	200	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.

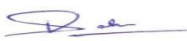
Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
---	---	---

TSET REPORT NO.	RIN/TR/FEBRUARY -20/W23	DATE OF ISSUE	31-03-2020
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	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
04-02-2020	7.54	34	32	<2
23-02-2020	7.48	38	36	<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
04-02-2020	7.58	62	44	<2
23-02-2020	7.46	56	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: BALLARPUR AREA
NAME OF PROJECT: GOURI DEEP OC

YEAR: 2020
MONTH: FEBRUARY

MANAGER OFFICE: BGDN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	07-02-2020	50.4	49.8
FEB 2020	25-02-2020	49.7	48.2
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



FEBRUARY -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
3	WATER QUALITY MONITORING DATA	-
4	NOISE LEVEL DATA	5

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- DHOPTALA 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/FEBRUARY -20/A18	DATE OF ISSUE	31-03-2020
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), NO _x (06:2006), SO ₂ (02:2001)], PM-2.5 & SPM*		
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 µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-02-2020	222	168	78	19	8
27-02-2020	194	148	76	15	9
TLV	600	300	60	120	120

MANAGER OFFICE- DHOPTALA OC: BNDOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-02-2020	172	108	56	20	9
27-02-2020	196	118	54	26	14
TLV	600	300	60	120	120

SASTI COLONY: BNDOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-02-2020	198	112	48	26	12
27-02-2020	208	126	58	22	12
TLV	200	100	60	80	80

SASTI VILLAGE: BNDOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-02-2020	168	102	42	28	11
27-02-2020	176	122	64	15	9
TLV	200	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.
3	* Test parameter not under NABL scope.

FUGITIVE DUST MONITORING DATA

CHP: BNDOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
10-02-2020	1,048	730	320

WEIGHT BRIDGE: BNDOF2			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
10-02-2020	486	312	138



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.

NOISE LEVEL DATA

NAME OF AREA: BALLARPUR AREA YEAR: 2020
NAME OF PROJECT: NEW DHOPTALA OC MONTH: FEBRUARY

CHP: BNDN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	07-02-2020	61.2	58.4
FEB 2020	25-02-2020	60.2	59.7
TLV		75	70

SASTI COLONY: BNDN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	07-02-2020	44.6	43.3
FEB 2020	25-02-2020	43.8	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

PAUNI O/C

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



FEBRUARY -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 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/FEBRUARY -20/A22	DATE OF ISSUE	31-03-2020
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	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)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-02-2020	382	226	104	26	16
24-02-2020	414	242	114	29	14
TLV	600	300	60	120	120

WORKSHOP- PAUNI O/C: BPOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-02-2020	322	196	82	28	13
24-02-2020	352	218	94	22	13
TLV	600	300	60	120	120

PAUNI VILLAGE: BPOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-02-2020	192	108	48	27	16
24-02-2020	221	128	56	28	13
TLV	200	100	60	80	80

GOURI VILLAGE: BPOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-02-2020	172	108	58	28	14
26-02-2020	196	124	64	20	11
TLV	200	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.


FUGITIVE DUST MONITORING DATA

WEIGHT BRIDGE: BPOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM _{2.5}
DETECTION LIMIT	5	5	2
05-02-2020	326	178	82


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. |


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

TSET REPORT NO.	RIN/TR/FEBRUARY -20/W22	DATE OF ISSUE	31-03-2020
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	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
04-02-2020	7.72	46	40	<2
25-02-2020	7.58	30	28	<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
04-02-2020	7.48	32	28	<2
25-02-2020	7.32	40	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

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

MANAGER OFFICE: BPON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	07-02-2020	51.2	50.4
FEB 2020	25-02-2020	50.2	49.7
TLV		75	70

GOURI COLONY: BPON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	07-02-2020	45.1	44.2
FEB 2020	25-02-2020	44.6	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

PAUNI II OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



FEBRUARY 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
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

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/FEBRUARY -20/A24	DATE OF ISSUE	31-03-2020
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	BALLARPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	PAUNI II OC	SAMPLING PLAN : LQR 47	


MINE OFFICE: BP2OA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-02-2020	321	187	84	26	12
24-02-2020	358	210	94	23	14
TLV	600	300	60	120	120

SUBSTATION: BP2OA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-02-2020	268	146	74	24	11
25-02-2020	304	172	76	19	11
TLV	600	300	60	120	120

SAKHARI VILLAGE: BP2OA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-02-2020	202	104	48	22	13
25-02-2020	207	114	56	17	9
TLV	200	100	60	80	80

WORKSHOP: BP2OA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-02-2020	322	196	82	28	13
24-02-2020	352	218	94	22	13
TLV	600	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.
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/FEBRUARY -20/W24	DATE OF ISSUE	31-03-2020
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	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
06-02-2020	6.8	26	28	<2
25-02-2020	7.4	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: BALLARPUR AREA
NAME OF PROJECT: PAUNI II OC

YEAR: 2020
MONTH: FEBRUARY

MANAGER OFFICE: BP2ON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	07-02-2020	50.8	48.7
FEB 2020	25-02-2020	50.2	49.5
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

SASTI OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



FEBRUARY 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 to 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/FEBRUARY -20/A16	DATE OF ISSUE	31-03-2020
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	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 $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-02-2020	224	156	72	22	9
26-02-2020	188	132	72	15	8
TLV	600	300	60	120	120

AREA STORE: BSOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-02-2020	248	172	64	25	14
26-02-2020	220	154	68	13	7
TLV	600	300	60	120	120

GOURI COLONY FILTER PLANT: BSOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-02-2020	196	114	62	23	12
26-02-2020	212	126	64	18	11
TLV	200	100	60	80	80

SASTI VILLAGE: BSOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-02-2020	168	102	42	28	11
27-02-2020	176	122	64	15	9
TLV	200	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.

FUGITIVE DUST MONITORING DATA

MAIN CHP:BSOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
08-02-2020	1768	1048	488

WEIGHT BRIDGE: BSOF2			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
08-02-2020	740	428	174

RAILWAY SIDING:BSOF3			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
08-02-2020	810	438	186



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. |

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


TSET REPORT NO.	RIN/TR/FEBRUARY-20/W16	DATE OF ISSUE	31.03.2020
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	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
08-02-2020	7.32	42	36	<2
26-02-2020	7.42	30	28	<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
08-02-2020	7.48	30	28	<2
26-02-2020	7.36	34	36	<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
08-02-2020	58	12
26-02-2020	68	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: BALLARPUR AREA
NAME OF PROJECT: SASTI OC

YEAR: 2020
MONTH: FEBRUARY

CHP: BSON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	07-02-2020	61.5	60.4
FEB 2020	25-02-2020	60.9	59.7
TLV		75	70

G. COLONY: BSON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	07-02-2020	45.1	44.2
FEB 2020	25-02-2020	44.6	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

SASTI UG

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



FEBRUARY 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
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

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/FEBRUARY-20/A17	DATE OF ISSUE	31-03-2020
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	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 $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-02-2020	222	168	78	19	<10
27-02-2020	194	148	76	15	<10
TLV	600	300	60	120	120

MANAGER OFFICE- DHOPTALA OC: BSUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-02-2020	172	108	56	20	<10
27-02-2020	196	118	54	26	14
TLV	600	300	60	120	120


SASTI COLONY: BSUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-02-2020	198	112	48	26	12
27-02-2020	208	126	58	22	12
TLV	200	100	60	80	80

SASTI VILLAGE: BSUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-02-2020	168	102	42	28	11
27-02-2020	176	122	64	15	<10
TLV	200	100	60	80	80


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY


1	This Report refers to the values related to the items tested
2	This Report cannot be reproduced in part or full without written permission of the management.
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/FEBRUARY -20/W17	DATE OF ISSUE	31-03-2020
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	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
10-02-2020	7.42	38	32	<2
26-02-2020	7.28	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: BALLARPUR AREA YEAR: 2020
NAME OF PROJECT: SASTI UG MONTH: FEBRUARY

FAN HOUSE: BSUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	07-02-2020	70.6	68.5
FEB 2020	25-02-2020	70.7	69.2
TLV		75	70

SASTI COLONY: BSUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	07-02-2020	44.6	43.3
FEB 2020	25-02-2020	43.8	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

BHATADI OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



FEBRUARY-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/FEBRUARY-20/A34	DATE OF ISSUE	31.03.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WWCL/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	BHATADI OC	SAMPLING PLAN : LQR 47	

BHATADI SECURITY POST: CBOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-02-2020	164	92	35	30	10
23-02-2020	169	88	30	20	<10
TLV	600	300	60	120	120

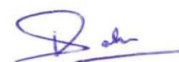
BHATADI MANAGER OFFICE: CBOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-02-2020	152	90	36	31	11
23-02-2020	172	93	32	26	<10
TLV	600	300	60	120	120

BHATADI VILLAGE: CBOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-02-2020	148	86	33	30	10
23-02-2020	154	82	36	32	10
TLV	200	100	60	80	80

VADHOLI VILLAGE: CBOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-02-2020	185	95	46	35	13
25-02-2020	191	91	43	31	12
TLV	200	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.

FUGITIVE DUST MONITORING DATA

CHP/MGR LOADING POINT: CBOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
09-02-2020	422	230	90

WEIGHT BRIDGE: CBOF2			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
09-02-2020	485	250	95


WORKSHOP CBOF3			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
10-02-2020	386	219	72



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. |

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


TSET REPORT NO.	RIN/TR/FEBRUARY -20/W34	DATE OF ISSUE	31-03-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WWCL/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	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
10-02-2020	7.38	28	32	<2
23-02-2020	7.77	30	36	<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
10-02-2020	7.45	22	24	<2
23-02-2020	7.86	28	24	<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
10-02-2020	26	12.6
23-02-2020	24	10.8
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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: CHANDRAPUR AREA YEAR: 2020
NAME OF PROJECT: BHATADI OC MONTH: FEBRUARY

NEAR CHP: CBON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	11-02-2020	53.6	53.4
FEB 2020	21-02-2020	60.9	58.4
TLV		75	70

COLONY: CBON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	11-02-2020	43.7	43.3
FEB 2020	21-02-2020	43.7	42.2
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



FEBRUARY 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
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

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 :	CCRUW1

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP:	CCRUN1
2	COLONY:	CCRUN2

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/FEBRUARY -20/A32	DATE OF ISSUE	31-03-2020
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	CRC UG	SAMPLING PLAN : LQR 47	

MANAGER'S OFFICE MAHAKALI UG: CCRUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-02-2020	177	90	34	26	<10
22-02-2020	169	100	38	32	10
TLV	600	300	60	120	120

CRC SUBSTATION/ FILTER PLANT: CCRUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-02-2020	138	71	39	32	10
22-02-2020	156	94	34	22	<10
TLV	600	300	60	120	120

JATWARA MILK SCHEME: CCRUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-02-2020	147	89	42	29	<10
22-02-2020	178	93	36	24	<10
TLV	600	300	60	120	120

COLONY: CCRUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-02-2020	176	96	46	36	14
22-02-2020	189	128	52	38	13
TLV	200	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. |

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

TSET REPORT NO.	RIN/TR/FEBRUARY -20/W32	DATE OF ISSUE	31-03-2020
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	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
11-02-2020	6.97	28	24	<2
22-02-2020	6.84	34	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: CHANDRAPUR AREA
NAME OF PROJECT: CRC UG

YEAR: 2020
MONTH: FEBRUARY

CHP: CCRUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	11-02-2020	63.7	63.5
FEB 2020	21-02-2020	62.8	58.9
TLV		75	70

COLONY: CCRUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	11-02-2020	43.5	43.4
FEB 2020	21-02-2020	43.4	43.6
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. 800003



FEBRUARY 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
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

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/FEBRUARY-20/A33	DATE OF ISSUE	31-03-2020
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), NO _x (06:2006), SO ₂ (02:2001)],PM-2.5 & SPM*		
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 $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-02-2020	169	84	31	22	10
21-02-2020	152	77	47	37	12
TLV	600	300	60	120	120

NEHRU NAGAR/ SUBSTATION: CDRUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-02-2020	130	77	30	24	<10
23-02-2020	136	76	48	38	13
TLV	600	300	60	120	120

DRC- V COLONY: CDRUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-02-2020	176	123	49	36	11
21-02-2020	187	124	55	35	12
TLV	200	100	60	80	80


PIT OFFICE DRC-IV: CDRUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-02-2020	175	79	35	26	11
22-02-2020	184	88	38	32	12
TLV	200	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. |

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

TSET REPORT NO.	RIN/TR/FEBRUARY-20/W33	DATE OF ISSUE	31-03-2020
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	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
12-02-2020	7.77	20	36	<2
21-02-2020	7.24	24	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. |
| 3 | * Test parameter not under NABL scope. |

NOISE LEVEL DATA

NAME OF AREA: CHANDRAPUR AREA **YEAR: 2020**
NAME OF PROJECT: DRC UG **MONTH: FEBRUARY**

PIT OFFICE DRC- III UG: CDRUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	11-02-2020	72.6	72.3
FEB 2020	21-02-2020	68.7	67.7
TLV		75	70

DURGAPUR COLONY: CDRUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	13-02-2020	44.8	43.2
FEB 2020	21-02-2020	44.5	43.3
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

DURGAPUR OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



FEBRUARY 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
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

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/FEBRUARY-20/A25	DATE OF ISSUE	31.03.20
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), NO _x (06:2006), SO ₂ (02:2001)],PM-2.5 & SPM*		
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 $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-02-2020	193	100	56	42	15
18-02-2020	166	82	38	32	12
TLV	600	300	60	120	120

DURGAPUR VILLAGE: CDOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-02-2020	156	84	40	36	13
18-02-2020	174	90	34	30	10
TLV	200	100	60	80	80

MANAGER OFFICE Q-IV : CDOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-02-2020	194	93	36	26	<10
24-02-2020	156	110	40	36	15
TLV	600	300	60	120	120

FILTER PLANT DOC/POC COLONY: CDOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-02-2020	187	96	36	28	<10
18-02-2020	152	100	45	38	13
TLV	200	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. |

FUGITIVE DUST MONITORING DATA


CHP: CDOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM₁₀	PM_{2.5}
DETECTION LIMIT	5	5	2
03-02-2020	486	238	68



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. |

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

TSET REPORT NO.	RIN/TR/FEBRUARY-20/W25	DATE OF ISSUE	31-03-2020
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		
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
04-02-2020	7.47	34	32	<2
19-02-2020	7.56	30	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
04-02-2020	7.67	26	36	<2
19-02-2020	7.27	34	32	<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
04-02-2020	32	11.4
19-02-2020	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: CHANDRAPUR AREA
NAME OF PROJECT: DURGAPUR OC

YEAR: 2020
MONTH: FEBRUARY

CHP: CDON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	13-02-2020	60.6	59.3
FEB 2020	20-02-2020	60.8	58.4
TLV		75	70

DURGAPUR COLONY: CDON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	13-02-2020	44.8	43.2
FEB 2020	20-02-2020	44.5	43.3
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. 800003



FEBRUARY-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 contributes 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/FEBRUARY-20/A28	DATE OF ISSUE	31-03-2020
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 OC	SAMPLING PLAN	LQR 47

MANAGER OFFICE(NANDGAON UG): CHO1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-02-2020	180	104	44	34	13
20-02-2020	168	120	52	30	10
TLV	600	300	60	120	120

MANAGER OFFICE(HLP OC): CHO2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-02-2020	188	110	32	24	<10
19-02-2020	184	88	45	38	13
TLV	600	300	60	120	120

MANA VILLAGE : CHO3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-02-2020	185	89	38	24	<10
19-02-2020	170	80	43	33	11
TLV	200	100	60	80	80

COLONY (NANDGAON): CHO4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-02-2020	173	92	48	30	10
20-02-2020	184	115	47	28	<10
TLV	200	100	60	80	80



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | This Report refers to the values related to the items tested as received |
| 2 | This Report cannot be reproduced in part or full without written permission of the management. |
| 3 | * Test parameter not under NABL scope. |

FUGITIVE DUST MONITORING DATA

MAIN CHP: CHOA1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
13-02-2020	270	135	88

RAILWAY SIDING: CHOA3			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
13-02-2020	300	160	76


WAIGHT BRIDGE:CHOA2			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
13-02-2020	435	217	78



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. |

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

TSET REPORT NO.	RIN/TR/FEBRUARY-20/W28	DATE OF ISSUE	31-03-2020
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 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
13-02-2020	7.29	24	44	<2
19-02-2020	4.9	36	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: CHANDRAPUR AREA
NAME OF PROJECT: HLP OC

YEAR: 2020
MONTH: FEBRUARY

CHP: CHON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	13-02-2020	60.7	56.3
FEB 2020	20-02-2020	58.7	56.5
TLV		75	70

COLONY: CHON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	13-02-2020	43.8	42.6
FEB 2020	20-02-2020	45.4	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

HLP I& III UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



FEBRUARY 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
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

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/FEBRUARY-20/A27	DATE OF ISSUE	31-03-2020
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)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-02-2020	167	88	38	32	12
18-02-2020	184	96	40	36	13
TLV	600	300	60	120	120

PIT OFFICE - HLC-I INCLINE: CHUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-02-2020	160	72	32	26	<10
20-02-2020	180	93	44	34	12
TLV	600	300	60	120	120

HLC-III COLONY : CHUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-02-2020	165	89	41	33	12
20-02-2020	143	73	32	24	<10
TLV	200	100	60	80	80

RAJIV GANDHI ENGG. COLLEGE: CHUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-02-2020	198	93	39	30	10
21-02-2020	176	78	36	28	<10
TLV	200	100	60	80	80




SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	This Report refers to the values related to the items tested
2	This Report cannot be reproduced in part or full without written permission of the management.
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/FEBRUARY-20/W27	DATE OF ISSUE	31-03-2020
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
13-02-2020	7.54	30	32	<2
20-02-2020	7.2	26	36	<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
14-02-2020	7.66	32	40	<2
20-02-2020	7.88	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

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

FAN HOUSE - I UG: CHUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	13-02-2020	69.7	68.5
FEB 2020	20-02-2020	70.1	68.4
TLV		75	70

COLONY: CHUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	13-02-2020	43.8	42.6
FEB 2020	20-02-2020	43.4	42.5
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



FEBRUARY 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
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

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/FEBRUARY-19/A31	DATE OF ISSUE	31-03-2020
NAME OF CUSTOMER	GM(Env.),WCL(HQ) NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-4/1400-1414 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 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 $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-02-2020	177	90	34	26	<10
22-02-2020	169	100	38	32	10
TLV	600	300	60	120	120

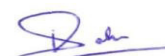
CRC SUBSTATION/ FILTER PLANT: CMUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-02-2020	138	71	39	32	10
22-02-2020	156	94	32	22	<10
TLV	600	300	60	120	120

JATWARA MILK SCHEME: CMUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-02-2020	147	89	42	29	<10
22-02-2020	178	93	36	24	<10
TLV	600	300	60	120	120

COLONY: CMUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-02-2020	176	96	46	36	14
22-02-2020	189	128	52	38	13
TLV	200	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.

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

TSET REPORT NO.	RIN/TR/FEBRUARY-20/W31	DATE OF ISSUE	31-03-2020
NAME OF CUSTOMER	GM(Env.),WCL(HQ) NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-4/1400-1414 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 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
11-02-2020	6.66	26	28	<2
22-02-2020	7.3	36	32	<2
TLV	5.5 - 9.0	250	100	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: CHANDRAPUR AREA
NAME OF PROJECT: MAHAKALI UG

YEAR: 2020
MONTH: FEBRUARY

FAN HOUSE: CMUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	11-02-2020	69.7	68.6
FEB 2020	21-02-2020	69.2	68.6
TLV		75	70

COLONY: CMUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	11-02-2020	43.6	43.4
FEB 2020	21-02-2020	44.7	43.3
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

MANA UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



FEBRUARY 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
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

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/FEBRUARY-20/A30	DATE OF ISSUE	31-03-2020
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	MANA UG	SAMPLING PLAN : LQR 47	

MANAGER'S OFFICE: CMUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-02-2020	136	80	43	35	12
19-02-2020	166	105	36	30	10
TLV	600	300	60	120	120

SUBSTATION MANA INCLINE: CMUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-02-2020	152	76	47	38	15
19-02-2020	162	86	32	22	<10
TLV	600	300	60	120	120

COLONY (NANDGAON): CMUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-02-2020	173	92	48	30	10
20-02-2020	184	115	47	28	<10
TLV	200	100	60	80	80

MANA VILLAGE: CMUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-02-2020	185	89	38	24	<10
19-02-2020	170	80	43	33	11
TLV	200	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.

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

TSET REPORT NO.	RIN/TR/FEBRUARY-20/W30	DATE OF ISSUE	31-03-2020
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	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
13-02-2020	7.26	18	24	<2
20-02-2020	7.64	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: CHANDRAPUR AREA YEAR: 2020
NAME OF PROJECT: MANA UG MONTH: FEBRUARY

FAN HOUSE: CMUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	13-02-2020	70.1	68.7
FEB 2020	20-02-2020	68.8	67.5
TLV		75	70

COLONY (HLP OC): CMUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	13-02-2020	44.6	43.1
FEB 2020	20-02-2020	45.4	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

NANDGAON UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



FEBRUARY 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
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

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/FEBRUARY-20/A29	DATE OF ISSUE	31-03-2020
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	NANDGAON UG	SAMPLING PLAN : LQR 47	

MANAGER OFFICE NANDGAON UG: CNUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-02-2020	180	104	44	34	13
20-02-2020	168	120	52	30	10
TLV	600	300	60	120	120

SUBSTATION MANA INCLINE: CNUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-02-2020	152	76	47	38	15
19-02-2020	162	86	32	22	<10
TLV	600	300	60	120	120

MANA VILLAGE : CNUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-02-2020	185	89	38	24	<10
19-02-2020	170	80	43	33	11
TLV	200	100	60	80	80

COLONY (NANDGAON): CNUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-02-2020	173	92	48	30	10
20-02-2020	184	115	47	28	<10
TLV	200	100	60	80	80




SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY


1	This Report refers to the values related to the items tested
2	This Report cannot be reproduced in part or full without written permission of the management.
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/FEBRUARY-20/W29	DATE OF ISSUE	31-03-2020
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
13-02-2020	7.45	38	48	<2
20-02-2020	7.54	34	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: CHANDRAPUR AREA **YEAR: 2020**
NAME OF PROJECT: NANDGAON UG **MONTH: FEBRUARY**

FAN HOUSE: CNUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	13-02-2020	68.8	67.4
FEB 2020	20-02-2020	69.3	68.2
TLV		75	70

COLONY HLP OC: CNUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	13-02-2020	44.6	43.1
FEB 2020	20-02-2020	45.4	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

PADMAPUR OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



FEBRUARY 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/FEBRUARY-20/A26	DATE OF ISSUE	31-03-2020
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	PADMAPUR OC	SAMPLING PLAN : LQR 47	

MANAGER'S OFFICE-Q-IV: CPOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-02-2020	194	93	36	26	<10
24-02-2020	156	110	40	36	15
TLV	600	300	60	120	120

WARWAT VILLAGE: CPOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-02-2020	182	105	46	35	16
25-02-2020	175	109	48	33	15
TLV	200	100	60	80	80

KITADI VILLAGE : CPOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-02-2020	166	77	37	31	10
24-02-2020	171	84	32	28	<10
TLV	200	100	60	80	80

VICHODA RAYATWARI VILLAGE: CPOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-02-2020	187	96	36	28	<10
26-02-2020	152	100	45	38	13
TLV	200	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.
3	* Test parameter not under NABL scope.

FUGITIVE DUST MONITORING DATA

CHP/MGR LOADING POINT: CPOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
08-02-2020	400	200	60

WEIGHT BRIDGE: CPOF2			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
08-02-2020	550	275	72



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. |
| 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/FEBRUARY-20/W26	DATE OF ISSUE	31-03-2020
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	PADMAPUR OC	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE SECTOR III:				
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
10-02-2020	7.23	24	28	<2
24-02-2020	7.35	20	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
10-02-2020	8.2	22	40	<2
24-02-2020	7.99	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

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

CHP: CPON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	13-02-2020	59.9	58.4
FEB 2020	20-02-2020	59.2	57.1
TLV		75	70

DURGAPUR COLONY: CPON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	13-02-2020	44.8	43.2
FEB 2020	20-02-2020	44.5	43.3
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

JUNA KUNADA OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



FEBRUARY 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/FEBRUARY-20/A46	DATE OF ISSUE	31.03.2020
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	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)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-02-2020	168	126	36	30	<10
22-02-2020	192	158	43	26	<10
TLV	600	300	60	120	120

SAM OFFICE CHARGAON: MJOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-02-2020	132	88	28	22	<10
24-02-2020	154	116	37	28	<10
TLV	600	300	60	120	120

EKTA NAGAR COLONY: MJOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-02-2020	65	48	17	12	<10
23-02-2020	78	56	22	19	<10
TLV	200	100	60	80	80

CHARGAON INTAKE WELL: MJOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-02-2020	144	106	20	27	<10
25-02-2020	176	128	49	22	<10
TLV	200	100	60	80	80



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	This Report refers to the values related to the items tested
2	This Report cannot be reproduced in part or full without written permission of the management.
3	* Test parameter not under NABL scope.

FUGITIVE DUST MONITORING DATA

CHARGAON CHP: MJOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
07-02-2020	464.00	290.00	72.00



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. |

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. 800003



FEBRUARY 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

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/FEBRUARY-20/A42	DATE OF ISSUE	31.03.2020
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	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 $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-02-2020	228	136	38	32	<10
23-02-2020	254	154	23	26	<10
TLV	600	300	60	120	120

PATALA MAGAZINE: MMOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-02-2020	128	86	20	22	<10
24-02-2020	152	102	20	17	13
TLV	600	300	60	120	120

PRIMARY HEALTH CENTRE,MAJRI BASTI: MMOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-02-2020	160	112	42	28	<10
24-02-2020	178	104	26	22	<10
TLV	200	100	60	80	80

KUCHANA VILLAGE: MMOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-02-2020	72	46	24	14	<10
05-02-2020	48	32	28	12	<10
09-02-2020	64	42	26	13	<10
10-02-2020	60	38	22	14	<10
19-02-2020	80	54	28	20	<10
20-02-2020	62	46	23	16	<10
25-02-2020	72	54	32	20	<10
27-02-2020	68	44	47	18	<10
TLV	200	100	60	80	80



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | This Report refers to the values related to the items tested |
| 2 | This Report cannot be reproduced in part or full without written permission of the management. |
| 3 | * Test parameter not under NABL scope. |

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*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
09-02-2020	620	378	99

NMOC CHP: MMOF2			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
10-02-2020	560	342	102



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. |

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

TSET REPORT NO.	RIN/TR/FEBRUARY-20/W42	DATE OF ISSUE	31.03.2020
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	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
09-02-2020	7.2	52	44	<2
25-02-2020	6.9	62	56	<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
09-02-2020	8.4	38	36	<2
25-02-2020	8.1	48	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.
3	* Test parameter not under NABL scope.

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. 800003



FEBRUARY 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

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	COLONY 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/FEBRUARY-20/A43	DATE OF ISSUE	31.03.2020
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	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 $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-02-2020	128	86	20	22	<10
24-02-2020	152	102	20	17	13
TLV	600	300	60	120	120

MANAGER OFFICE UG TO OC: MMUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-02-2020	224	132	42	30	<10
24-02-2020	246	158	45	25	<10
TLV	600	300	60	120	120

CONTRACTOR CAMP:MMUA5					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-02-2020	196	150	52	36	28
24-02-2020	202	168	54	25	20
TLV	600	300	60	120	120

SAWARLA VILLAGE:MMUA6					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-02-2020	94	59	57	30	<10
23-02-2020	104	62	32	14	<10
TLV	600	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.
3	* Test parameter not under NABL scope.

FUGITIVE DUST MONITORING DATA

RAILWAY SIDING: MMUF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM _{2.5}
DETECTION LIMIT	5	5	2
08-02-2020	472	266	62




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. |


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

TSET REPORT NO.	RIN/TR/FEBRUARY-20/W43	DATE OF ISSUE	31.03.2020
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	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
09-02-2020	7.3	54	32	<2
24-02-2020	7.6	50	40	<2
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
09-02-2020	8.3	46	40	<2
24-02-2020	8.1	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.
3	* Test parameter not under NABL scope.

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



FEBRUARY 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

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/FEBRUARY-20/A43	DATE OF ISSUE	31.03.2020
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	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 µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-02-2020	162	88	24	23	<10
22-02-2020	164	96	32	26	<10
TLV	600	300	60	120	120

SAM OFFICE: MTOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-02-2020	168	92	32	20	<10
23-02-2020	186	122	48	25	<10
TLV	600	300	60	120	120

CHARGAON VILLAGE: MTOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-02-2020	95	80	30	16	<10
23-02-2020	90	66	43	22	<10
TLV	200	100	60	80	80

EKTA NAGAR COLONY: MTOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-02-2020	65	48	17	12	<10
23-02-2020	78	56	22	19	<10
TLV	200	100	60	80	80



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	This Report refers to the values related to the items tested
2	This Report cannot be reproduced in part or full without written permission of the management.
3	* Test parameter not under NABL scope.

FUGITIVE DUST MONITORING DATA

GROUND STOCK YARD: MTOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
06-02-2020	418	284	68

WEIGHT BRIDGE: MTOF2			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
12-02-2020	396	252	60



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. |

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

TSET REPORT NO.	RIN/TR/FEBRUARY-20/W43	DATE OF ISSUE	31.03.2020
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	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
09-02-2020	42	12
23-02-2020	32	8
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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: MAJRI AREA
NAME OF PROJECT: TELWASA OC

YEAR: 2020
MONTH: FEBRUARY

NEAR PIT OFFICE: MTON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	08-02-2020	44.4	43.3
FEB 2020	24-02-2020	50.6	49.5
TLV		75	70

EKTA NAGAR COLONY: MTON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	08-02-2020	43.6	42.5
FEB 2020	24-02-2020	43.2	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

ADASA UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



FEBRUARY-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
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

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/FEBRUARY-20/A5	DATE OF ISSUE	31.03.2020
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	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 $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-02-2020	235	170	38	27	18
18-02-2020	244	181	48	28	18
TLV	600	300	60	120	120

AT PATHAKHEDI GP OFFICE : NAUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-02-2020	192	130	32	26	16
19-02-2020	185	131	36	26	16
TLV	200	100	60	80	80

COLONY WATER FILTER PLANT : NAUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-02-2020	176	134	28	24	18
19-02-2020	189	137	38	26	16
TLV	200	100	60	80	80

KOTODI VILLAGE : NAUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-02-2020	156	114	32	26	17
18-02-2020	166	108	34	24	12
TLV	200	100	60	80	80


J. Shray

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.
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/FEBRUARY-20/W5	DATE OF ISSUE	31-03-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	RIN/TR/FEBRUARY-20/W9		
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
27-02-2020	7.8	24	12	<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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: NAGPUR AREA
NAME OF PROJECT: ADASA UG

YEAR: 2020
MONTH: FEBRUARY

FAN HOUSE: NAUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	04-02-2020	70.3	67.9
FEB 2020	27-02-2020	65.6	60.7
TLV		75	70

MANAGER OFFICE: NAUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	04-02-2020	48.7	45.8
FEB 2020	27-02-2020	45.8	42.6
TLV		75	70

COLONY (SAONER): NAUN3			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	04-02-2020	44.9	43.6
FEB 2020	27-02-2020	46.8	44.5
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



FEBRUARY 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
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

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/FEBRUARY-20/A9	DATE OF ISSUE	31.03.2020
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	NAGPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	BHANEGAON OC	SAMPLING PLAN : LQR 47	

NEAR MANGER OFFICE: NBOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-02-2020	196	144	38	27	19
20-02-2020	210	154	39	28	18
TLV	600	300	60	120	120

BINA SANGAM TEMPLE: NBOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-02-2020	156	111	32	27	18
19-02-2020	166	114	36	28	19
TLV	200	100	60	80	80

BINA VILLAGE: NBOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-02-2020	148	100	34	25	16
20-02-2020	154	106	34	27	18
TLV	200	100	60	80	80

DORLI VILLAGE : NBOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-02-2020	186	133	36	28	17
19-02-2020	198	150	38	27	16
TLV	200	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.
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/FEBRUARY-20/W9	DATE OF ISSUE	31.03.2020
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	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
04-02-2020	7.9	28	36	<2
20-02-2020	7.8	24	32	<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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: NAGPUR AREA
NAME OF PROJECT: BHANEGAON OC

YEAR: 2020
MONTH: FEBRUARY

CONTRACTOR CAMP: NBON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	06-02-2020	51.6	47.2
FEB 2020	25-02-2020	48.9	46.3
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

GONDEGAON OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



FEBRUARY 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
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

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/FEBRUARY-20/A6	DATE OF ISSUE	31.03.2020
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	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 µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-02-2020	280	218	48	27	16
21-02-2020	292	224	58	28	18
TLV	600	300	60	120	120

GONDEGAON VILLAGE SCHOOL: NGOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-02-2020	184	128	32	24	14
20-02-2020	192	126	38	28	18
TLV	200	100	60	80	80

COLONY/GUEST HOUSE: NGOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-02-2020	165	113	34	27	17
20-02-2020	177	125	36	24	14
TLV	200	100	60	80	80

GHATRONHA VILLAGE: NGOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-02-2020	165	111	32	24	17
21-02-2020	184	121	38	26	19
TLV	200	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.
3	* Test parameter not under NABL scope.

FUGITIVE DUST MONITORING DATA

W. BRIDGE NGOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
21-02-2020	723	485	71




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.

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

TSET REPORT NO.	RIN/TR/FEBRUARY-20/W6	DATE OF ISSUE	31.03.2020
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	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
04-02-2020	7.5	12	28	<2
21-02-2020	8.1	14	32	<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
04-02-2020	7.2	16	24	<2
21-02-2020	8.3	18	20	<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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: NAGPUR AREA
NAME OF PROJECT: GONDEGAON OC

YEAR: 2020
MONTH: FEBRUARY

CHP: NGON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	06-02-2020	47.2	46.7
FEB 2020	25-02-2020	52.3	50.6
TLV		75	70

COLONY: NGON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	06-02-2020	44.7	42.6
FEB 2020	25-02-2020	43.9	41.8
TLV		55	45

GHATROHNA VILLAGE NGON3			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	06-02-2020	45.8	43.7
FEB 2020	25-02-2020	44.8	42.6
TLV		55	45

JUNI KAMPTEE VILLAGE: NGON4			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	06-02-2020	46.7	44.3
FEB 2020	25-02-2020	45.6	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

INDER UG TO OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



FEBRUARY 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/FEBRUARY-20/A8	DATE OF ISSUE	31.03.2020
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	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)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-02-2020	210	156	36	29	19
25-02-2020	217	152	44	27	19
TLV	600	300	60	120	120

CMPDI TEKADI STORE: NIOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-02-2020	236	172	38	24	17
25-02-2020	244	179	46	25	17
TLV	600	300	60	120	120

COLONY WATER TREATMENT PLANT: NIOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-02-2020	165	117	32	25	15
27-02-2020	177	125	36	26	19
TLV	200	100	60	80	80

G.P. OFFICE KANDRI VILLAGE: NIOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-02-2020	174	121	34	28	16
25-02-2020	188	132	42	27	16
TLV	200	100	60	80	80

J. Shan

SCIENTIFIC ASSISTANT

Dee

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.

FUGITIVE DUST MONITORING DATA

WEIGHT BRIDGE :NIOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
07-02-2020	440	365	82

NEAR COAL STOCK- YARD: NIOF2			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
07-02-2020	265	196	38


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. |
| 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/FEBRUARY-20/W8	DATE OF ISSUE	31.03.2020
NAME OF CUSTOMER	WCL, 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	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
07-02-2020	7.6	24	32	<2
25-02-2020	7.9	26	28	<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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

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

YEAR: 2020
MONTH: FEBRUARY

R.C. OFFICE: NION1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	06-02-2020	50.3	46.8
FEB 2020	25-02-2020	52.8	51.1
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

KAMPTEE DEEP OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



FEBRUARY 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 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/FEBRUARY-20/A7	DATE OF ISSUE	31.03.2020
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), NO _x (06:2006), SO ₂ (02:2001)], PM-2.5 & SPM*		
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 $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-02-2020	320	252	52	27	17
25-02-2020	310	242	55	28	18
TLV	600	300	60	120	120

JUNI KAMPTEE VILLAGE: NKCA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-02-2020	185	133	34	28	17
27-02-2020	194	132	38	27	17
TLV	200	100	60	80	80

COLONY WATER TREATMENT PALNT: NKCA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-02-2020	165	117	32	25	15
27-02-2020	177	125	36	26	19
TLV	200	100	60	80	80

G.P. OFFICE KANDRI VILLAGE: NKCA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-02-2020	174	121	34	28	16
25-02-2020	188	132	42	27	16
TLV	200	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.
3	* Test parameter not under NABL scope.

FUGITIVE DUST MONITORING DATA

CHP:NKCF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
06-02-2020	1120	810	165

RLY. SIDING:NKCF2			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
06-02-2020	720	630	136

J. Shany

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. |

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

TSET REPORT NO.	RIN/TR/FEBRUARY-20/W7	DATE OF ISSUE	31.03.2020
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	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
06-02-2020	7.4	18	28	<2
25-02-2020	8.5	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

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

CHP: NKC1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	06-02-2020	48.9	47.2
FEB 2020	25-02-2020	51.9	47.2
TLV		75	70

COLONY: NKC2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	06-02-2020	45.5	42.8
FEB 2020	25-02-2020	46.8	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

PATANSAONGI UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



FEBRUARY 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
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

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/FEBRUARY-20/A3	DATE OF ISSUE	31.03.2020		
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	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 $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-02-2020	285	227	46	32	16
18-02-2020	294	226	56	29	17
TLV	600	300	60	120	120

SADBHAVAN NAGAR (FILTER PLANT): NPTUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-02-2020	195	138	34	27	17
27-02-2020	215	187	42	28	16
TLV	200	100	60	80	80

NEAR LCH QR.: NPTUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-02-2020	245	117	42	24	18
27-02-2020	238	186	46	22	12
TLV	200	100	60	80	80

SAVARMENDHA VILLAGE.: NPTUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-02-2020	182	140	36	28	18
27-02-2020	198	142	38	27	19
TLV	200	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. |
| 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/FEBRUARY-20/W3	DATE OF ISSUE	31.03.2020
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	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
05-02-2020	8.1	22	28	<2
27-02-2020	8.4	24	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

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

FAN HOUSE: NPTUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	04-02-2020	52.6	48.3
FEB 2020	27-02-2020	48.8	45.6
TLV		75	70

COLONY: NPTUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	04-02-2020	46.7	42.8
FEB 2020	27-02-2020	45.5	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

PIPLA UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



FEBRUARY 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
4	NOISE LEVEL DATA	5

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/FEBRUARY-20/A2	DATE OF ISSUE	31.03.2020
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), NO _x (06:2006), SO ₂ (02:2001)], PM-2.5 & SPM*		
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 $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-02-2020	315	247	56	28	17
27-02-2020	324	256	55	26	18
TLV	600	300	60	120	120

IN ZONE- 4: NPUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-02-2020	165	117	38	27	19
26-02-2020	178	116	32	28	18
TLV	600	300	60	120	120

FILTER PLANT: NPUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-02-2020	174	118	32	22	14
26-02-2020	188	130	34	24	16
TLV	200	100	60	80	80

SHIV MANDIR: NPUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-02-2020	186	140	36	20	17
26-02-2020	210	162	44	22	19
TLV	200	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: NAGPUR AREA
NAME OF PROJECT: PIPLA UG

YEAR: 2020
MONTH: FEBRUARY

FAN HOUSE: NPUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	04-02-2020	43.8	41.2
FEB 2020	27-02-2020	46.6	42.3
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

SAONER UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



FEBRUARY-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

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 :	NSNUA1
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 quality monitoring data	Air	 TC-7102
---	--	-----	--

TSET REPORT NO.	RIN/TR/FEBRUARY-20/A4	DATE OF ISSUE	31.03.2020
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	NAGPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	SAONER UG	SAMPLING PLAN : LQR 47	

C.M. OFFICE - SAONER - I UG : NSNUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-02-2020	256	188	44	26	17
19-02-2020	266	201	52	24	16
TLV	600	300	60	120	120

C.M. OFFICE- SAONER- II UG : NSNUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-02-2020	265	212	42	32	20
19-02-2020	278	210	46	30	18
TLV	600	300	60	120	120

COLONY WATER FILTER PLANT: NSNUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-02-2020	176	134	28	24	18
19-02-2020	189	137	38	26	16
TLV	200	100	60	80	80

KOTODI VILLAGE : NSNUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-02-2020	156	114	32	26	17
18-02-2020	166	108	34	24	12
TLV	200	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.
3	* Test parameter not under NABL scope.

FUGITIVE DUST MONITORING DATA

RLY. SIDING: NSNUF2			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
18-02-2020	680	540	156




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. |

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

TSET REPORT NO.	RIN/TR/FEBRUARY-20/W4	DATE OF ISSUE	31.03.2020
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	NAGPUR AREA	SAMPLING METHOD :	LSOP 5
NAME OF PROJECT	SAONER UG	SAMPLING PLAN :	LQR 47

MINE WATER DISCHARGE I UG: NSNUW1				
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
07-02-2020	7.5	24	36	<2
19-02-2020	8.3	22	28	<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)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
07-02-2020	7.2	28	32	<2
19-02-2020	8.5	18	24	<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)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	4	10	2
07-02-2020	7.3	18	28	<2
19-02-2020	7.9	16	36	<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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: NAGPUR AREA
NAME OF PROJECT: SAONER UG

YEAR: 2020
MONTH: FEBRUARY

FAN HOUSE I UG: NSNUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	04-02-2020	69.7	68.3
FEB 2020	27-02-2020	70.5	68.6
TLV		75	70

FAN HOUSE II UG: NSNUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	04-02-2020	69.7	68.3
FEB 2020	27-02-2020	70.1	67.7
TLV		75	70

FAN HOUSE III UG: NSNUN3			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	04-02-2020	70.2	69.8
FEB 2020	27-02-2020	70.3	68.8
TLV		75	70

COLONY: NSNUN4			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	04-02-2020	44.9	43.6
FEB 2020	27-02-2020	46.8	44.5
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



FEBRUARY 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
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

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/FEBRUARY-20/A1	DATE OF ISSUE	31.03.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)],PM-2.5 & SPM*		
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)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-02-2020	256	188	42	27	18
26-02-2020	275	207	46	24	16
TLV	600	300	60	120	120

V.T.C. SILEWARA: NSUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-02-2020	237	181	38	24	17
18-02-2020	246	190	44	26	19
TLV	600	300	60	120	120

MANDIR NEAR KANHAN RIVER: NSUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-02-2020	165	120	34	28	19
18-02-2020	174	122	38	25	17
TLV	200	100	60	80	80

CHANKAPUR PUMP HOUSE/ COLONY: NSUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-02-2020	184	132	37	26	16
18-02-2020	193	135	32	28	19
TLV	200	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.
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/FEBRUARY-20/W1	DATE OF ISSUE	31.03.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/1400-1414 DATED: 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	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
03-02-2020	7.3	14	24	<2
27-02-2020	8.2	18	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: NAGPUR AREA
NAME OF PROJECT: SILEWARA UG

YEAR: 2020
MONTH: FEBRUARY

FAN HOUSE: NSUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	04-02-2020	69.6	67.7
FEB 2020	27-02-2020	69.8	67.6
TLV		75	70

COLONY: NSUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	04-02-2020	48.8	42.9
FEB 2020	27-02-2020	45.8	43.9
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

SINGORI OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



FEBRUARY-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/FEBRUARY-20/A10	DATE OF ISSUE	31.03.2020
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	NAGPUR AREA	SAMPLING METHOD :	LSOP 4
NAME OF PROJECT	SINGORI OC	SAMPLING PLAN :	LQR 47

CONTRACTOR CAMP: NSOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-02-2020	199	147	38	26	19
19-02-2020	225	181	42	33	21
TLV	600	300	60	120	120

SOHOLI VILLAGE : NSOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-02-2020	165	117	36	27	17
18-02-2020	178	124	38	28	19
TLV	200	100	60	80	80

HINGNA VILLAGE: NSOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-02-2020	186	134	38	29	19
19-02-2020	196	138	36	26	16
TLV	200	100	60	80	80

DORLI VILLAGE: NSOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-02-2020	186	133	36	28	17
19-02-2020	198	150	38	27	16
TLV	200	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.
3	* Test parameter not under NABL scope.

FUGITIVE DUST MONITORING DATA

NEAR COAL STOCK YARD: NSOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
19-02-2020	310	212	65

WEIGHT BRIDGE: NSOF2			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
03-02-2020	375	310	55



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. |

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

TSET REPORT NO.	RIN/TR/FEBRUARY-20/W10	DATE OF ISSUE	31.03.2020
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	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
03-02-2020	8.1	16	24	<2
19-02-2020	8.2	12	20	<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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: NAGPUR AREA
NAME OF PROJECT: SINGORI OC

YEAR: 2020
MONTH: FEBRUARY

CONTRACTOR CAMP: NSON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	06-02-2020	49.8	46.6
FEB 2020	25-02-2020	50.3	48.6
TLV		75	70

SOHOLI VILLAGE : NSON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	06-02-2020	45.8	42.3
FEB 2020	25-02-2020	43.6	40.2
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



FEBRUARY 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
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

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/FEBRUARY-20/A14	DATE OF ISSUE	31.03.2020
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	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)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-02-2020	341	203	50	31	15
20-02-2020	371	204	53	39	17
TLV	600	300	60	120	120

NEAR RLY. WEIGHT BRIDGE: UM30A2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-02-2020	371	197	59	39	19
23-02-2020	326	153	45	39	18
TLV	600	300	60	120	120

WELSAKRA VILLAGE : UM30A3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-02-2020	168	89	38	32	16
20-02-2020	173	95	39	35	15
TLV	200	100	60	80	80

PIPARDOL VILLAGE: UM30A4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-02-2020	186	91	42	33	18
23-02-2020	191	97	48	41	19
TLV	200	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.
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/FEBRUARY-20/W14	DATE OF ISSUE	31.03.2020
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	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
14-02-2020	7.2	22	32	<2
21-02-2020	7.4	34	48	<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
10-02-2020	7.3	34	44	<2
21-02-2020	7.4	36	52	<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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: UMRER AREA
NAME OF PROJECT: DINESH OC

YEAR: 2020
MONTH: FEBRUARY

NEAR PIT OFFICE: UM3ON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	11-02-2020	48.9	45.5
FEB 2020	20-02-2020	54.3	51.2
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. 8000003



FEBRUARY 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
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

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/FEBRUARY-20/A14	DATE OF ISSUE	31.03.2020
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	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 µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-02-2020	299	156	42	38	19
18-02-2020	333	191	43	39	19
TLV	600	300	60	120	120

BESUR VILLAGE : UGOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-02-2020	187	105	55	39	18
09-02-2020	213	115	56	39	17
12-02-2020	204	116	47	39	16
13-02-2020	224	124	39	37	17
18-02-2020	185	138	50	37	17
19-02-2020	234	114	53	35	14
22-02-2020	190	120	44	39	17
23-02-2020	174	108	53	39	17
TLV	200	100	60	80	80

NAND VILLAGE: UGOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-02-2020	330	131	50	39	17
09-02-2020	200	129	47	39	16
12-02-2020	190	115	44	37	17
13-02-2020	168	87	50	37	17
18-02-2020	435	231	40	39	18
19-02-2020	213	109	50	37	16
22-02-2020	230	112	59	39	18
23-02-2020	199	102	47	39	18
TLV	200	100	60	80	80

POLGAON VILLAGE : UGOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-02-2020	189	100	50	39	17
09-02-2020	206	104	60	39	16
12-02-2020	212	90	50	39	17
13-02-2020	223	116	50	31	15
18-02-2020	198	110	50	39	17
19-02-2020	239	120	50	37	17
22-02-2020	246	108	55	39	17
23-02-2020	257	115	50	39	18
TLV	200	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.
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/FEBRUARY-20/W14	DATE OF ISSUE	31.03.2020
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	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
08-02-2020	7.3	28	36	<2
19-02-2020	7.2	30	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
08-02-2020	7.4	32	44	<2
19-02-2020	7.3	32	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: UMRER AREA
NAME OF PROJECT: GOKUL OC

YEAR: 2020
MONTH: FEBRUARY

CONTRACTOR CAMP: UGON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	11-02-2020	51.8	46.6
FEB 2020	20-02-2020	51.1	48.7
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

MAKARDHOKRA- II OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



FEBRUARY -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
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

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/FEBRUARY-20/A12	DATE OF ISSUE	31.03.2020
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	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 µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-02-2020	199	128	55	39	18
21-02-2020	198	95	53	38	18
TLV	600	300	60	120	120

SAM OFFICE: UMOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-02-2020	190	94	60	39	18
21-02-2020	190	96	56	38	18
TLV	600	300	60	120	120

KANWA VILLAGE : UMOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-02-2020	179	93	40	39	18
24-02-2020	199	94	50	39	18
TLV	200	100	60	80	80

NEAR PUMP HOUSE COLONY: UMOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-02-2020	174	97	50	39	18
21-02-2020	195	120	53	39	18
TLV	200	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.
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/FEBRUARY-20/W12	DATE OF ISSUE	31.03.2020
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	UMRER AREA	SAMPLING METHOD	: LSOP 5
NAME OF PROJECT	MAKARDHOKRA- II OC	SAMPLING PLAN	: LQR 47

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
10-02-2020	7.5	36	48	<2
21-02-2020	7.2	30	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: UMRER AREA **YEAR: 2020**
NAME OF PROJECT: MAKARDHOKRA- II OC **MONTH: FEBRUARY**

NEAR PIT OFFICE: UMON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	11-02-2020	47.9	44.2
FEB 2020	20-02-2020	53.9	50.8
TLV		75	70

COLONY (UMRER OC): UMON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	11-02-2020	45.7	43.2
FEB 2020	20-02-2020	46.6	45.2
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

MAKARDHOKHRA- I OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



FEBRUARY 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
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

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/FEBRUARY-20/A13	DATE OF ISSUE	31.03.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)],PM-2.5 & SPM*		
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 µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-02-2020	201	128	56	37	17
21-02-2020	247	134	58	37	17
TLV	600	300	60	120	120

KALMANA VILLAGE: UM10A2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-02-2020	185	89	47	36	17
21-02-2020	191	92	48	38	18
TLV	200	100	60	80	80

KHURSAPAR VILLAGE : UM10A3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-02-2020	193	94	41	36	20
21-02-2020	195	96	49	40	21
TLV	200	100	60	80	80

SIRPUR VILLAGE : UM10A4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-02-2020	193	109	40	37	17
20-02-2020	203	137	41	39	18
TLV	200	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.
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/FEBRUARY-20/W13	DATE OF ISSUE	31.03.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414DATED: 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	UMRER AREA	SAMPLING METHOD	LSOP 5
NAME OF PROJECT	MAKARDHOKHRA- I OC	SAMPLING PLAN	LQR 47

MINE WATER DISCHARGE: UM1OW1				
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
11-02-2020	6.99	20	32	<2
21-02-2020	7.4	34	48	<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.
3	* Test parameter not under NABL scope.

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



FEBRUARY 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 ot 3
2	AIR QUALITY MONITORING DATA	4
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

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/FEBRUARY-20/A15	DATE OF ISSUE	31.03.2020
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	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 µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-02-2020	307	206	47	39	16
18-02-2020	405	251	50	39	17
TLV	600	300	60	120	120

NEAR MAGAZINE BUILDING: UMUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-02-2020	421	203	41	39	16
18-02-2020	336	239	59	39	16
TLV	600	300	60	120	120

COLONY : UMUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-02-2020	195	99	44	39	17
18-02-2020	177	94	57	37	16
TLV	200	100	60	80	80

MORPAR VILLAGE : UMUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-02-2020	211	101	54	36	15
18-02-2020	189	113	46	36	15
TLV	200	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.
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/FEBRUARY-20/W15	DATE OF ISSUE	31.03.2020
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	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
03-02-2020	7.5	34	48	<2
18-02-2020	7.2	30	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: UMRER AREA
NAME OF PROJECT: MURPAR UG

YEAR: 2020
MONTH: FEBRUARY

FAN HOUSE: UMUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	03-02-2020	68.8	67.5
FEB 2020	29-02-2020	69.2	68.4
TLV		75	70

COLONY: UMUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	03-02-2020	44.2	43.6
FEB 2020	29-02-2020	44.7	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

UMRER OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



FEBRUARY 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	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/FEBRUARY-20/A11	DATE OF ISSUE	31.03.20
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 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 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)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-02-2020	271	123	40	33	16
19-02-2020	181	123	41	39	19
TLV	600	300	60	120	120

NEAR WORKSHOP: UUA02					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-02-2020	235	100	42	35	14
24-02-2020	239	107	41	39	19
TLV	600	300	60	120	120

KANWA VILLAGE : UUA03					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-02-2020	179	93	40	39	18
24-02-2020	199	94	50	39	18
TLV	200	100	60	80	80

NEAR PUMP HOUSE COLONY: UUA04					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-02-2020	174	97	50	39	18
21-02-2020	195	120	53	39	18
TLV	200	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.
3	* Test parameter not under NABL scope.

FUGITIVE DUST MONITORING DATA

CHP: UUOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
24-02-2020	423	284	60

RLY. SIDING: UUOF3			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
10-02-2020	349	238	55

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. |
| 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/FEBRUARY-20/W11	DATE OF ISSUE	31.03.20
NAME OF CUSTOMER	WCL, 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	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
11-02-2020	7.2	18	28	<2
21-02-2020	7.2	30	44	<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
10-02-2020	7.4	32	44	<2
21-02-2020	7.3	32	44	<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
10-02-2020	46	11.4
22-02-2020	48	12
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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: UMRER AREA
NAME OF PROJECT: UMRER OC

YEAR: 2020
MONTH: FEBRUARY

CHP: UUON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	11-02-2020	52.6	47.6
FEB 2020	20-02-2020	49.9	47.6
TLV		75	70

COLONY: UUON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	11-02-2020	45.7	43.2
FEB 2020	20-02-2020	46.6	45.2
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

GHUGUS OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



FEBRUARY 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

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/FEBRUARY-20/A38	DATE OF ISSUE	31.03.2020
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	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 µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-02-2020	168	146	46	36	10
27-02-2020	192	158	62	30	12
TLV	600	300	60	120	120

SAM OFFICE: WGOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-02-2020	358	272	62	50	18
28-02-2020	366	260	60	38	16
TLV	600	300	60	120	120

RAM NAGAR COLONY : WGOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-02-2020	218	120	64	30	<10
28-02-2020	208	116	44	26	<10
TLV	200	100	60	80	80

GHUGUS VILLAGE (GP OFFICE): WGOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-02-2020	238	142	58	32	<10
28-02-2020	222	128	46	35	<10
TLV	200	100	60	80	80



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	This Report refers to the values related to the items tested
2	This Report cannot be reproduced in part or full without written permission of the management.
3	* Test parameter not under NABL scope.

FUGITIVE DUST MONITORING DATA

RAILWAY SIDING: WGOF2			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM _{2.5}
DETECTION LIMIT	5	5	2
03-02-2020	424	334	94



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. |

NOISE LEVEL DATA

NAME OF AREA: WANI AREA
NAME OF PROJECT: GHUGUS OC

YEAR: 2020
MONTH: FEBRUARY

CHP: WGON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	13-02-2020	64.6	63.9
FEB 2020	27-02-2020	69.6	63.7
TLV		75	70

COLONY: WGON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	13-02-2020	44.7	43.6
FEB 2020	27-02-2020	44.8	43.5
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

KOLGAON OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



FEBRUARY 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
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

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/FEBRUARY-20/A39	DATE OF ISSUE	31.03.2020
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	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)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-02-2020	242	168	53	36	11
25-02-2020	276	184	52	32	14
TLV	600	300	60	120	120

SAM OFFICE: WKOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-02-2020	320	195	59	34	12
26-02-2020	336	218	64	32	<10
TLV	600	300	60	120	120

KOLGAON VILLAGE : WKOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-02-2020	188	118	44	25	10
25-02-2020	172	104	45	30	<10
TLV	200	100	60	80	80

KAILSHNAGAR TOWNSHIP - FILTER PLANT: WKOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-02-2020	172	112	40	12	<10
26-02-2020	164	108	42	18	<10
TLV	200	100	60	80	80




SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY


1	This Report refers to the values related to the items tested
2	This Report cannot be reproduced in part or full without written permission of the management.
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/FEBRUARY-20/W39	DATE OF ISSUE	31.03.2020
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	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
06-02-2020	7.1	30	32	<2
26-02-2020	7.4	26	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: WANI AREA
NAME OF PROJECT: KOLGAON OC

YEAR: 2020
MONTH: FEBRUARY

MANAGER OFFICE: WKON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	06-02-2020	51.7	51.5
FEB 2020	27-02-2020	55.7	54.9
TLV		75	70

COLONY (MUGOLI): WKON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	06-02-2020	43.6	43.2
FEB 2020	27-02-2020	42.9	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

MUGOLI OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



FEBRUARY 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
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

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/FEBRUARY-20/A36	DATE OF ISSUE	31.03.2020
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	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)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-02-2020	298	242	58	17	<10
26-02-2020	276	228	58	24	<10
TLV	600	300	60	120	120

SAM OFFICE: WMOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-02-2020	320	195	59	34	12
26-02-2020	336	218	64	32	<10
TLV	600	300	60	120	120

KAILSHNAGAR TOWNSHIP FILTER PLANT : WMOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-02-2020	172	112	40	12	<10
26-02-2020	164	108	42	18	<10
TLV	200	100	60	80	80

TUBEWELL NEAR SAKHARA VILLAGE: WMOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-02-2020	200	124	60	20	<10
26-02-2020	192	112	46	24	<10
TLV	200	100	60	80	80




SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	This Report refers to the values related to the items tested
2	This Report cannot be reproduced in part or full without written permission of the management.
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/FEBRUARY-20/W36	DATE OF ISSUE	31.03.2020
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	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
05-02-2020	7	42	44	<2
26-02-2020	7.1	44	48	<2
TLV	5.5 - 9.0	100	250	10

ETP DISCHARFE 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
05-02-2020	7.5	48	40	<2
26-02-2020	7.2	50	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: WANI AREA
NAME OF PROJECT: MUGOLI OC

YEAR: 2020
MONTH: FEBRUARY

CHP: WMON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	06-02-2020	63.7	63.4
FEB 2020	27-02-2020	65.4	64.6
TLV		75	70

COLONY: WMON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	06-02-2020	43.6	43.2
FEB 2020	27-02-2020	42.9	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

NAIGAON OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



FEBRUARY 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/FEBRUARY-20/A37	DATE OF ISSUE	31.03.2020
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	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 $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-02-2020	312	208	46	44	12
26-02-2020	324	220	26	36	15
TLV	600	300	60	120	120

WORKSHOP ETP NOCM - I: WNGOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-02-2020	272	180	54	30	<10
18-02-2020	284	192	56	28	<10
TLV	600	300	60	120	120

BELLORA REHABILITATION VILLAGE: WNGOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-02-2020	158	102	40	26	<10
26-02-2020	180	112	32	30	<10
TLV	200	100	60	80	80

FILTER PLANT NEAR VIP GUEST HOUSE: WNGOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-02-2020	130	78	38	20	<10
28-02-2020	144	86	38	24	<10
TLV	200	100	60	80	80



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	This Report refers to the values related to the items tested
2	This Report cannot be reproduced in part or full without written permission of the management.
3	* Test parameter not under NABL scope.

FUGITIVE DUST MONITORING DATA

WEIGHT BRIDGE: WNGOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
14-02-2020	730	458	82



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. |

NOISE LEVEL DATA

NAME OF AREA: WANI AREA
NAME OF PROJECT: NAIGAON OC

YEAR: 2020
MONTH: FEBRUARY

CHP: WNGON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	13-02-2020	63.9	63.6
FEB 2020	27-02-2020	63.4	62.9
TLV		75	70

COLONY (GHUGUS): WNGON3			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	13-02-2020	45.5	42.8
FEB 2020	27-02-2020	44.7	43.6
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

NILJAI DEEP OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



FEBRUARY 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	TP(DOMESTIC EFFLUENT) - TREATED WATE	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/FEBRUARY-20/A35	DATE OF ISSUE	31.03.2020
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	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)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-02-2020	240	192	56	23	<10
18-02-2020	256	196	32	27	10
TLV	600	300	60	120	120

WORKSHOP ETP NOCM: WNOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-02-2020	272	180	54	30	<10
18-02-2020	284	192	56	28	<10
TLV	600	300	60	120	120

NILJAI COLONY: WNOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-02-2020	138	102	44	17	<10
18-02-2020	146	110	40	20	<10
TLV	200	100	60	80	80

TARODA VILLAGE: WNOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-02-2020	185	110	38	25	<10
18-02-2020	168	98	36	28	<10
TLV	200	100	60	80	80



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	This Report refers to the values related to the items tested
2	This Report cannot be reproduced in part or full without written permission of the management.
3	* Test parameter not under NABL scope.

FUGITIVE DUST MONITORING DATA

CHP: WNOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
03-02-2020	510	326	98

WEIGHT BRIDGE: WNOF2			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
03-02-2020	468	308	75




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. |

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


TSET REPORT NO.	RIN/TR/FEBRUARY-20/W35	DATE OF ISSUE	31.03.2020
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	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
13-02-2020	6.4	40	32	<2
18-02-2020	6.1	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
13-02-2020	7.6	36	40	<2
18-02-2020	7.8	40	44	<2
TLV	5.5 - 9.0	100	250	10

DOMESTIC EFFLUENT) - TREATED WATER: WNOW3		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS(in mg/l)	BOD(in mg/l)
DETECTION LIMIT	10	2
19-02-1900	14	16
18-02-2020	44	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: WANI AREA **YEAR: 2020**
NAME OF PROJECT: NILJAI DEEP OC **MONTH: FEBRUARY**

CHP: WNON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	13-02-2020	64.5	63.7
FEB 2020	27-02-2020	64.9	63.6
TLV		75	70

CHP (S): WNON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	13-02-2020	63.7	62.9
FEB 2020	27-02-2020	63.9	62.5
TLV		75	70

COLONY: WNON3			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	13-02-2020	43.8	42.9
FEB 2020	27-02-2020	43.5	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

PENGANGA OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



FEBRUARY 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
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

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 Wardhariver 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/FEBRUARY-20/A40	DATE OF ISSUE	31.03.2020
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	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 µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-02-2020	220	130	56	30	<10
27-02-2020	214	112	55	26	<10
TLV	600	300	60	120	120

NEAR MINE: WPOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-02-2020	304	184	52	38	13
27-02-2020	336	198	49	32	15
TLV	600	300	60	120	120

VIRUR VILLAGE : WPOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-02-2020	232	146	58	34	12
27-02-2020	224	134	47	30	13
TLV	200	100	60	80	80

GADEGAON VILLAGE: WPOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-02-2020	210	152	56	36	13
25-02-2020	202	134	47	30	19
TLV	200	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.

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

TSET REPORT NO.	RIN/TR/FEBRUARY-20/W40	DATE OF ISSUE	31.03.2020
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	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
07-02-2020	7.5	40	36	<2
27-02-2020	7.7	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: WANI AREA **YEAR: 2020**
NAME OF PROJECT: PENGANGA OC **MONTH: FEBRUARY**

NEAR WORKSHOP: WPON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	13-02-2020	56.8	55.9
FEB 2020	27-02-2020	56.4	55.9
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. 800003



FEBRUARY 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
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

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/FEBRUARY-20/A55	DATE OF ISSUE	31.03.2020
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	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 $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-02-2020	376	248	74	38	24
22-02-2020	356	222	70	34	18
TLV	600	300	60	120	120

SAM OFFICE/ CANTEEN: WNGOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-02-2020	154	70	28	26	16
21-02-2020	174	78	50	24	18
TLV	600	300	60	120	120

GHONSA VILLAGE: WNGOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-02-2020	254	196	68	44	36
22-02-2020	266	192	64	40	28
TLV	200	100	60	80	80

GUEST HOUSE/ COLONY: WNGOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-02-2020	180	92	50	38	24
21-02-2020	186	98	48	36	24
TLV	200	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.

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

TSET REPORT NO.	RIN/TR/FEBRUARY-20/W55	DATE OF ISSUE	31.03.2020
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	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
08-02-2020	6.8	24	40	<2
22-02-2020	6.97	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: WANI NORTH
NAME OF PROJECT: GHONSA OC

YEAR: 2020
MONTH: FEBRUARY

MANAGER OFFICE: WNGON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	10-02-2020	56.8	55.9
FEB 2020	20-02-2020	55.9	55.7
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

JUNAD OC

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 8000003



FEBRUARY 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/FEBRUARY-20/A53	DATE OF ISSUE	31.03.2020
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	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 $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-02-2020	364	196	66	38	26
23-02-2020	378	198	64	44	28
TLV	600	300	60	120	120

BORGAON VILLAGE: WNJOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-02-2020	218	140	56	44	36
23-02-2020	228	148	60	28	20
TLV	200	100	60	80	80

BHALAR TOWNSHIP: WNJOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-02-2020	224	110	54	28	20
26-02-2020	236	114	58	34	16
TLV	200	100	60	80	80

UKNI VILLAGE: WNJOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-02-2020	164	82	40	34	24
23-02-2020	178	98	54	38	18
TLV	200	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.

FUGITIVE DUST MONITORING DATA

SECURITY POST: WNJOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM _{2.5}
DETECTION LIMIT	5	5	2
12-02-2020	268	196	64



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. |

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

TSET REPORT NO.	RIN/TR/FEBRUARY-20/W53	DATE OF ISSUE	31.03.2020
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	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
09-02-2020	7.18	40	60	<2
23-02-2020	6.97	46	68	<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
09-02-2020	6.5	20	28	<2
23-02-2020	6.54	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: WANI NORTH
NAME OF PROJECT: JUNAD OC

YEAR: 2020
MONTH: FEBRUARY

MANAGER OFFICE: WNJON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	10-02-2020	56.4	55.7
FEB 2020	20-02-2020	56.8	55.6
TLV		75	70

BHALAR COLONY: WNJON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	10-02-2020	43.6	42.6
FEB 2020	20-02-2020	43.8	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

KOLARPIMPRI OC

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 8000003



FEBRUARY-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

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/FEBRUARY-20/A50	DATE OF ISSUE	31.03.2020
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	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 µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-02-2020	174	114	46	22	17
20-02-2020	154	98	44	26	16
TLV	600	300	60	120	120

REST SHELTER: WNKOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-02-2020	290	156	62	26	16
21-02-2020	284	162	58	40	28
TLV	600	300	60	120	120

PIMPRI VILLAGE: WNKOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-02-2020	280	154	58	32	22
19-02-2020	292	164	62	38	26
TLV	200	100	60	80	80

WATER FILTER PLANT PRAGATI NAGAR: WNKOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-02-2020	246	126	58	34	24
24-02-2020	266	134	58	40	28
TLV	200	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.

FUGITIVE DUST MONITORING DATA

WEIGHT BRIDGE: WNKOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
06-02-2020	396.00	242.00	70.00

CHP: WNKOF2			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
06-02-2020	376.00	216.00	64.00

WANI.RLY. SIDING WNKOF3			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
06-02-2020	412.00	296.00	80.00




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. |

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

TSET REPORT NO.	RIN/TR/FEBRUARY-20/W50	DATE OF ISSUE	31.03.2020
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	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
06-02-2020	7.05	40	56	<2
21-02-2020	7.2	28	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: WANI NORTH
NAME OF PROJECT: KOLARPIMPRI OC

YEAR: 2020
MONTH: FEBRUARY

COLONY PRAGATI NAGAR: WNKON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	10-02-2020	62.7	61.8
FEB 2020	20-02-2020	62.9	62.4
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

KUMBHARKHANI UG

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 8000003



FEBRUARY 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
4	NOISE LEVEL DATA	5

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/FEBRUARY-20/A54	DATE OF ISSUE	31.03.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/17-K/520-522 DATED: 18.04.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)],PM-2.5 & SPM*		
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)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-02-2020	166	72	40	20	14
21-02-2020	154	80	50	24	18
TLV	600	300	60	120	120

SAM OFFICE/ CANTEEN: WNKUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-02-2020	154	70	28	26	16
21-02-2020	174	78	50	24	18
TLV	600	300	60	120	120

GUEST HOUSE / COLONY: WNKUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-02-2020	180	92	50	38	24
21-02-2020	186	98	48	36	24
TLV	200	100	60	80	80

GHONSA VILLAGE: WNKUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-02-2020	254	196	68	44	36
22-02-2020	266	192	64	40	28
TLV	200	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.

NOISE LEVEL DATA

NAME OF AREA: WANI NORTH **YEAR: 2020**
NAME OF PROJECT: KUMBHARKHANI UG **MONTH: FEBRUARY**

FAN HOUSE: WNKUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	10-02-2020	45.9	44.8
FEB 2020	20-02-2020	45.7	44.9
TLV		75	70

COLONY: WNKUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	10-02-2020	42.9	42.4
FEB 2020	20-02-2020	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

PIMPALGAON OC

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 8000003



FEBRUARY-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

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/FEBRUARY-20/A51	DATE OF ISSUE	31.03.2020
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	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 µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-02-2020	154	90	38	2	16
23-02-2020	162	98	50	26	18
TLV	600	300	60	120	120

WORKSHOP: WNPOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-02-2020	356	186	64	40	28
25-02-2020	386	180	68	34	24
TLV	600	300	60	120	120

WATER FILTER PLANT PRAGATI NAGAR: WNPOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-02-2020	246	126	58	34	24
24-02-2020	266	134	58	40	28
TLV	200	100	60	80	80

BORGAON VILLAGE: WNPOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-02-2020	218	140	56	44	36
23-02-2020	228	148	60	28	20
TLV	200	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.

FUGITIVE DUST MONITORING DATA

WEIGHT BRIDGE: WNPOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
09-02-2020	426	282	88

CHP: WNPOF2			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
09-02-2020	386	242	76



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. |

NOISE LEVEL DATA

NAME OF AREA: WANI NORTH
NAME OF PROJECT: PIMPALGAON OC

YEAR: 2020
MONTH: FEBRUARY

CHP: WNPN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	10-02-2020	63.5	62.4
FEB 2020	20-02-2020	63.8	62.9
TLV		75	70

COLONY PRAGATI NAGAR: WNPN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	10-02-2020	44.6	43.5
FEB 2020	20-02-2020	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

RAJUR UG

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 8000003



FEBRUARY 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
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

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/FEBRUARY-20/A52	DATE OF ISSUE	31.03.2020
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	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 $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-02-2020	276	128	60	44	26
22-02-2020	264	120	540	26	14
TLV	600	300	60	120	120

SAM OFFICE: WNRUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-02-2020	134	80	44	20	18
22-02-2020	156	84	48	24	21
TLV	600	300	60	120	120

PIT OFFICE/ COLONY: WNRUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-02-2020	158	76	48	20	18
27-02-2020	162	86	44	30	24
TLV	600	300	60	120	120

HUTMENT: WNRUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-02-2020	188	92	52	28	20
27-02-2020	174	98	54	28	17
TLV	200	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.

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

TSET REPORT NO.	RIN/TR/FEBRUARY-20/W52	DATE OF ISSUE	31.03.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414DATED: 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	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
08-02-2020	7.21	18	24	<2
22-02-2020	7.42	20	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: WANI NORTH
NAME OF PROJECT: RAJUR UG

YEAR: 2020
MONTH: FEBRUARY

FAN HOUSE: WNRUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	10-02-2020	69.5	68.7
FEB 2020	20-02-2020	69.4	68.8
TLV		75	70

COLONY: WNRUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	10-02-2020	42.8	41.9
FEB 2020	20-02-2020	42.9	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

UKNI OC

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 8000003



FEBRUARY-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
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

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/FEBRUARY-20/A49	DATE OF ISSUE	31.03.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED:28.9.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)],PM-2.5 & SPM*		
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 $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-02-2020	132	80	34	18	16
26-02-2020	144	84	50	18	14
TLV	600	300	60	120	120

BHALAR TOWNSHIP: WNUOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-02-2020	224	110	54	28	20
26-02-2020	236	114	58	34	16
TLV	200	100	60	80	80

UKNI VILLAGE: WNUOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-02-2020	164	82	40	34	24
23-02-2020	178	98	54	38	18
TLV	200	100	60	80	80

PIMPRI VILLAGE: WNUOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-02-2020	280	154	58	32	22
19-02-2020	292	164	62	38	26
TLV	200	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.

FUGITIVE DUST MONITORING DATA

WEIGHT BRIDGE: WNUOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
13-02-2020	392	228	76

CHP: WNUOF2			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
12-02-2020	366	216	64



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. |

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

TSET REPORT NO.	RIN/TR/FEBRUARY-20/W49	DATE OF ISSUE	31.03.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED:28.9.19		
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	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
12-02-2020	6.92	6	80	<2
26-02-2020	7.07	40	64	<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
12-02-2020	6.97	23	40	<2
26-02-2020	7.15	26	44	<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
12-02-2020	36	12
26-02-2020	48	16
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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: WANI NORTH
NAME OF PROJECT: UKNI OC

YEAR: 2020
MONTH: FEBRUARY

CHP: WNUON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	10-02-2020	64.7	63.9
FEB 2020	20-02-2020	64.9	63.7
TLV		75	70

BHALAR COLONY: WNUON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	10-02-2020	43.6	42.6
FEB 2020	20-02-2020	43.8	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

WANI RAILWAY SIDING

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



FEBRUARY 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
4	NOISE LEVEL DATA	7

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 Penchrive. 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/FEBRUARY-20/A56	DATE OF ISSUE	31.03.2020
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	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 $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-02-2020	320	224	60	34	22
05-02-2020	336	218	64	24	16
10-02-2020	352	240	70	44	28
11-02-2020	176	94	36	20	18
19-02-2020	344	236	70	44	24
20-02-2020	338	240	68	36	18
24-02-2020	366	248	76	40	28
25-02-2020	156	90	44	28	20
TLV	600	300	60	120	120

SHETHKARI DHANYA BAZAR : WNRS2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-02-2020	182	90	44	24	16
05-02-2020	194	108	58	36	18
10-02-2020	170	94	42	20	14
11-02-2020	124	80	28	16	12
19-02-2020	178	96	50	36	18
20-02-2020	198	112	54	26	16
24-02-2020	156	90	46	28	15
25-02-2020	136	84	36	18	14
TLV	200	100	60	80	80

RES.HOUSE VITTALWADI WANI: WNRS3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-02-2020	160	92	34	24	16
05-02-2020	168	96	40	26	20
10-02-2020	178	88	44	28	24
11-02-2020	126	76	28	16	12
19-02-2020	174	96	40	32	18
20-02-2020	178	100	48	36	24
24-02-2020	194	110	54	44	26
25-02-2020	116	70	32	14	10
TLV	200	100	60	80	80



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
| 1 | This Report refers to the values related to the items tested |
| 2 | This Report cannot be reproduced in part or full without written permission of the management. |
| 3 | * Test parameter not under NABL scope. |

FUGITIVE DUST MONITORING DATA

WANI RAILWAY SIDING WNRSF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM _{2.5}
DETECTION LIMIT	5	5	2
11-02-2020	486	318	86



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. |

NOISE LEVEL DATA

NAME OF AREA: WANI NORTH AREA YEAR: 2020
NAME OF PROJECT: WANI RAILWAY SIDING MONTH: FEBRUARY

COAL STOCK YARD: WNRS1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	10-02-2020	44.8	43.9
FEB 2020	20-02-2020	45.4	44.7
TLV		75	70

NEAR INCHARGE OFFICE: WNRS2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	10-02-2020	62.4	61.7
FEB 2020	20-02-2020	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

AMBARA OC

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



FEBRUARY-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

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.

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

TSET REPORT NO.	RIN/TR/FEBRUARY-20/A74	DATE OF ISSUE	31-03-2020
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	KANHAN AREA	SAMPLING METHOD	:LSOP 4
NAME OF PROJECT	AMBARA OC	SAMPLING PLAN	: LQR 47

MANAGER OFFICE : KAOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-02-2020	197	164	28	17	13
28-02-2020	164	140	31	17	11
TLV	600	300	60	120	120

PIT OFFICE- MOHAN: KAOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-02-2020	170	150	37	21	14
26-02-2020	162	145	30	19	14
TLV	600	300	60	120	120

COLONY- HEALTH CENTRE: KAOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-02-2020	169	155	48	20	11
25-02-2020	144	130	27	18	10
TLV	200	100	60	80	80

AMBARA VILLAGE: KAOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-02-2020	149	136	26	19	13
26-02-2020	149	136	26	19	13
TLV	200	100	60	80	80

Latimburme

SCIENTIFIC ASSISTANT

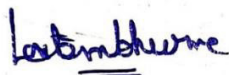
Deepanshu

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.

FUGITIVE DUST MONITORING DATA

CHP: KAOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM _{2.5}
DETECTION LIMIT	5	5	2
26-02-2020	421	330	91



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. |

NOISE LEVEL DATA

NAME OF AREA: KANHAN AREA
NAME OF PROJECT: AMBARA OC

YEAR: 2020
MONTH: FEBRUARY

MANAGER OFFICE: KAON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	14-02-2020	50.2	49.6
FEB 2020	25-02-2020	48.6	45.8
TLV		75	70

COLONY (MOHAN/MAORI): KAON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	14-02-2020	43.8	42.9
FEB 2020	25-02-2020	44.9	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

AMBARA UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



FEBRUARY-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
4	NOISE LEVEL DATA	5

INTRODUCTION

Ambara 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 :	KAUA1
2	PIT OFFICE- MOHAN:	KAUA2
3	COLONY- HEALTH CENTRE:	KAUA3
4	AMBARA VILLAGE:	KAUA4

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	COLONY(MOHAN/MAORI)	KAUN1

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/FEBRUARY-20/A72	DATE OF ISSUE	31-03-2020
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	KANHAN AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	AMBARA UG	SAMPLING PLAN : LQR 47	

SAM OFFICE- AMBARA : KAUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-02-2020	197	164	28	17	13
28-02-2020	164	140	31	17	11
TLV	600	300	60	120	120

PIT OFFICE- MOHAN: KAUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-02-2020	170	150	37	21	14
26-02-2020	162	145	30	19	14
TLV	600	300	60	120	120

COLONY- HEALTH CENTRE: KAUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-02-2020	169	155	48	20	11
25-02-2020	144	130	27	18	10
TLV	200	100	60	80	80

AMBARA VILLAGE: KAUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-02-2020	149	136	26	19	13
26-02-2020	167	152	33	20	14
TLV	200	100	60	80	80

Leetambhurne

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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: KANHAN AREA
NAME OF PROJECT: AMBARA UG

YEAR: 2020
MONTH: FEBRUARY

COLONY(MOHAN/MAORI) KAUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	14-02-2020	43.8	42.9
FEB 2020	25-02-2020	44.9	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

AREA WORKSHOP

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



FEBRUARY-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
4	NOISE LEVEL DATA	5

INTRODUCTION

Area Workshop is located in Chhindwara district of Madhya Pradesh state. The project is administered by Kanhan Area of Western Coalfields Limite.The climate of the area is tropical Transportation roads, agricultural and local activities vehicular traffic etc also contributes to the pollution.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	AREA WORKSHOP :	KAWA1

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	WORKSHOP PREMISES:	KAWN1

Frequency of Monitoring:

AIR: Frequency of monitoring is as per the Env. (Protection) Amendment Rules published vide Gazette dt. 25.9.2000.

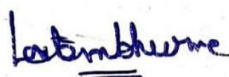
WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

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

TSET REPORT NO.	RIN/TR/FEBRUARY-20/A80	DATE OF ISSUE	31-03-2020
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	KANHAN AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	AREA WORKSHOP	SAMPLING PLAN : LQR 47	

AREA WORKSHOP : KAWA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-02-2020	170	143	31	17	<10
27-02-2020	164	134	36	19	11
TLV	600	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: KANHAN AREA
NAME OF PROJECT: AREA WORKSHOP

YEAR: 2020
MONTH: FEBRUARY

WORKSHOP PREMISES: KAWN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	14-02-2020	50.2	49.7
FEB 2020	25-02-2020	47.4	44.8
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

DAMUA OC

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



FEBRUARY-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
4	NOISE LEVEL DATA	5

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/FEBRUARY-20/A78	DATE OF ISSUE	31-03-2020
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	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)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-02-2020	193	167	31	18	11
27-02-2020	172	156	29	16	<10
TLV	600	300	60	120	120

SAM OFFICE- DAMUA: KDOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-02-2020	201	171	30	21	14
27-02-2020	216	188	33	20	15
TLV	600	300	60	120	120

RESCUE STATION (NEAR INCLINE 24&25): KDOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-02-2020	119	108	28	17	11
27-02-2020	111	98	22	17	<10
TLV	600	300	60	120	120

NANDORA VILLAGE: KDOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-02-2020	234	203	23	16	<10
27-02-2020	207	192	25	17	<10
TLV	200	100	60	80	80

Labimbhurne

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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: KANHAN AREA
NAME OF PROJECT: DAMUA OC

YEAR: 2020
MONTH: FEBRUARY

NEAR MANAGER OFFICE: KDON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	14-02-2020	50.7	48.6
FEB 2020	25-02-2020	45.8	43.4
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

DAMUA UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



FEBRUARY-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
4	NOISE LEVEL DATA	5

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/FEBRUARY-20/A77	DATE OF ISSUE	31-03-2020
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	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)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-02-2020	201	171	30	21	14
27-02-2020	216	188	33	20	15
TLV	600	300	60	120	120

RESCUE STATION (NEAR INCLINE 24&25): KDUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-02-2020	119	108	28	17	11
27-02-2020	111	98	22	17	<10
TLV	600	300	60	120	120

NANDORA VILLAGE: KDUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-02-2020	234	203	23	16	<10
27-02-2020	207	192	25	17	<10
TLV	200	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: KANHAN AREA
NAME OF PROJECT: DAMUA UG

YEAR: 2020
MONTH: JANAURY

COLONY: KDUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	14-02-2020	44.8	43.2
FEB 2020	25-02-2020	44.5	41.8
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

GHORAWARI OC

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



FEBRUARY-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
---	--	--

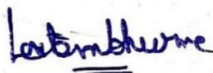
TSET REPORT NO.	RIN/TR/FRBFebruary-20/A76	DATE OF ISSUE	31-03-2020
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NO _x (06:2006), SO ₂ (02:2001)], PM-2.5 & SPM*		
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)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-02-2020	245	211	28	19	<10
28-02-2020	251	228	25	18	11
TLV	600	300	60	120	120

SAM - OFFICE GHORAWARI : KGOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-02-2020	208	172	39	17	<10
27-02-2020	172	151	29	19	11
TLV	600	300	60	120	120

COLONY- HEALTH CENTRE JHARNA: KGOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-02-2020	144	129	27	19	12
27-02-2020	136	114	24	16	<10
TLV	200	100	60	80	80

PANARA VILLAGE: KGOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-02-2020	137	112	25	16	<10
28-02-2020	152	129	27	19	14



SCIENTIFIC ASSISTANT

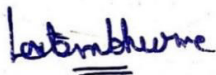


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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.

FUGITIVE DUST MONITORING DATA

PALACHURI SIDING :KGOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM _{2.5}
DETECTION LIMIT	5	5	2
26-02-2020	442	357	88



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. |

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



FEBRUARY-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
4	NOISE LEVEL DATA	5

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/FEBRUARY-20/A75	DATE OF ISSUE	31-03-2020
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	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 µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-02-2020	149	137	32	19	<10
27-02-2020	139	126	26	18	14
TLV	600	300	60	120	120

SAM OFFICE- GHORAWARI: KJUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-02-2020	208	172	39	17	<10
27-02-2020	172	151	29	19	11
TLV	600	300	60	120	120

COLONY- HEALTH CENTRE JHARNA: KJUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-02-2020	144	129	27	19	12
27-02-2020	136	114	24	16	<10
TLV	200	100	60	80	80

PANARA VILLAGE: KJUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-02-2020	137	112	25	16	<10
28-02-2020	152	129	27	19	14
TLV	200	100	60	80	80

Latamshume

SCIENTIFIC ASSISTANT

Deepanshu

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.

NOISE LEVEL DATA

NAME OF AREA: KANHAN AREA
NAME OF PROJECT: JHARNA - UG

YEAR: 2020
MONTH: FEBRUARY

FAN HOUSE: KJUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	14-02-2020	69.8	67.5
FEB 2020	25-02-2020	68.7	65:06:00
TLV		75	70

COLONY: KJUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	14-02-2020	44.6	43.6
FEB 2020	25-02-2020	45.8	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

MOHAN/ MAORI UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



FEBRUARY-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
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

INTRODUCTION

Mohan / Maori UG is located in Chhindwara district of Madhya Pradesh. The project is administered by Kanhan Area of Western Coalfields Limited. The climate of the area is tropical. Transportation roads, agricultural and local activities, vehicular traffic etc also contributes to the pollution.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	SAM OFFICE- AMBARA :	KMUA1
2	PIT OFFICE- MOHAN:	KMUA2
3	COLONY- HEALTH CENTRE:	KMUA3
4	AMBARA VILLAGE:	KMUA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE DISCHARGE:	KMUW1

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE:	KMUN1
2	COLONY:	KMUN2

Frequency of Monitoring:

AIR: Frequency of monitoring is as per the Env. (Protection) Amendment Rules published vide Gazette dt. 25.9.2000.

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

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

TSET REPORT NO.	RIN/TR/FEBRUARY-20/A73	DATE OF ISSUE	31-03-2020
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	KANHAN AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	MOHAN/ MAORI UG	SAMPLING PLAN : LQR 47	

SAM OFFICE- AMBARA : KMUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-02-2020	167	144	26	22	17
25-02-2020	185	156	24	19	11
TLV	600	300	60	120	120

PIT OFFICE- MOHAN: KMUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-02-2020	170	150	37	21	14
26-02-2020	162	145	30	19	14
TLV	600	300	60	120	120

COLONY- HEALTH CENTRE: KMUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-02-2020	169	155	48	20	11
25-02-2020	144	130	27	18	10
TLV	200	100	60	80	80

AMBARA VILLAGE: KMUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-02-2020	149	136	26	19	13
25-02-2020	167	152	33	20	14
TLV	200	100	60	80	80


Leetambhurne

SCIENTIFIC ASSISTANT

Deepanshu

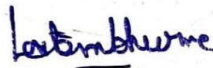
DEEPANSHU SAHU
AUTHORIZED SIGNATORY


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.

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

TSET REPORT NO.	RIN/TR/FEBRUARY-20/W73	DATE OF ISSUE	31-03-2020
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	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
11-02-2020	6.0	42	28	<2
25-02-2020	6.5	50	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: KANHAN AREA **YEAR: 2020**
NAME OF PROJECT: MOHAN/ MAORI UG **MONTH: FEBRUARY**

FAN HOUSE: KMUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	14-02-2020	69.7	68.4
FEB 2020	25-02-2020	68.2	67.1
TLV		75	70

COLONY: KMUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	14-02-2020	43.8	42.9
FEB 2020	25-02-2020	44.9	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

NANDAN UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



FEBRUARY-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
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

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/FEBRUARY-20/A71	DATE OF ISSUE	31-03-2020
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	KANHAN AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	NANDAN UG	SAMPLING PLAN : LQR 47	

SAM OFFICE- NANDAN I UG: KNUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-02-2020	262	232	36	19	12
26-02-2020	248	225	26	19	15
TLV	600	300	60	120	120

PIT OFFICE- NANDAN II UG: KNUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-02-2020	221	201	29	18	13
26-02-2020	200	188	24	15	<10
TLV	600	300	60	120	120

HEALTH CENTRE- NANDAN UG: KNUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-02-2020	204	184	26	21	16
26-02-2020	192	172	27	20	16
TLV	200	100	60	80	80

NANDAN WATER FILTER PLANT: KNUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-02-2020	254	200	39	18	12
26-02-2020	283	222	34	21	19
TLV	200	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.
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/FEBRUARY-20/W71	DATE OF ISSUE	31-03-2020
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	KANHAN AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	NANDAN UG	SAMPLING PLAN : LQR 47	

MINE DISCHARGE: KNUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
13-02-2020	7.4	20	28	<2
25-02-2020	7.2	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: KANHAN AREA
NAME OF PROJECT: NANDAN UG

YEAR: 2020
MONTH: FEBRUARY

FAN HOUSE UG II: KNUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	13-02-2020	64.1	61.2
FEB 2020	25-02-2020	66.2	62.9
TLV		75	70

COLONY: KNUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	13-02-2020	45.4	43.8
FEB 2020	25-02-2020	46.5	43.6
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

NANDAN WASHERY

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



FEBRUARY -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
4	NOISE LEVEL DATA	5

INTRODUCTION

Nandan Washery is located in Chhindwara district of Madhya Pradesh state. The project is administered by Kanhan Area of Western Coalfields Limited. The climate of the area is tropical. Transportation roads, agricultural and local activities, vehicular traffic etc also contributes to the pollution.

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

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	SUBSTATION :	KNWA1
2	SAM OFFICE- NANDAN I UG:	KNWA2
3	COLONY-GUEST HOUSE:	KNWA3
4	NANDAN WATER FILTER PLANT:	KNWA4

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	WASHERY:	KNWN1
2	COLONY:	KNWN2

Frequency of Monitoring:

AIR: Frequency of monitoring is as per the Env. (Protection) Amendment Rules published vide Gazette dt. 25.9.2000.

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

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

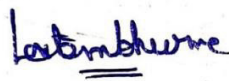
TSET REPORT NO.	RIN/TR/FEBRUARY-20/A70	DATE OF ISSUE	31-03-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)],PM-2.5 & SPM*		
NAME OF AREA	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)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-02-2020	237	159	28	20	16
25-02-2020	212	138	27	20	15
TLV	600	300	60	120	120

SAM OFFICE- NANDAN I UG: KNWA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-02-2020	262	232	36	19	12
26-02-2020	248	225	26	19	15
TLV	600	300	60	120	120

COLONY-GUEST HOUSE: KNWA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-02-2020	193	160	34	19	15
25-02-2020	225	196	31	21	16
TLV	200	100	60	80	80

NANDAN WATER FILTER PLANT: KNWA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-02-2020	254	200	39	18	12
26-02-2020	283	222	34	21	19
TLV	200	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.

NOISE LEVEL DATA

NAME OF AREA: KANHAN AREA **YEAR: 2020**
NAME OF PROJECT: NANDAN WASHERY **MONTH: FEBRUARY**

WASHERY: KNWN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	13-02-2020	47.2	44.4
FEB 2020	25-02-2020	49.7	45.6
TLV		75	70

COLONY: KNWN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	13-02-2020	44.9	43.1
FEB 2020	25-02-2020	43.4	41.1
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

TANDSI UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



FEBRUARY-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
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

INTRODUCTION

Tandsi UG is located in Chhindwara district of Madhya Pradesh state. The project is administered by Kanhan Area of Western Coalfields Limited. The climate of the area is tropical. Transportation roads, agricultural and local activities, vehicular traffic etc also contributes to the pollution

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

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	WORKSHOP :	KTUA1
2	LAMP ROOM:	KTUA2
3	COLONY-NEAR HEALTH CENTRE:	KTUA3
4	JET HOSTEL:	KTUA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE DISCHARGE:	KTUW1

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE:	KTUN1
2	COLONY:	KTUN2

Frequency of Monitoring:

AIR: Frequency of monitoring is as per the Env. (Protection) Amendment Rules published vide Gazette dt. 25.9.2000.

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

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

TSET REPORT NO.	RIN/TR/FEBRUARY-20/A79	DATE OF ISSUE	31-03-2020
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	KANHAN AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	TANDSI UG	SAMPLING PLAN : LQR 47	

WORKSHOP : KTUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-02-2020	300	255	29	17	11
24-02-2020	271	237	25	17	<10
TLV	600	300	60	120	120

LAMP ROOM: KTUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-02-2020	235	185	29	18	12
25-02-2020	210	165	27	17	11
TLV	600	300	60	120	120

COLONY-NEAR HEALTH CENTRE: KTUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-02-2020	328	279	37	19	15
24-02-2020	296	260	30	20	12
TLV	200	100	60	80	80

JET HOSTEL: KTUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-02-2020	448	409	27	20	15
25-02-2020	428	381	25	21	16
TLV	200	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.
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/FEBRUARY-20/W79	DATE OF ISSUE	31-03-2020
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	KANHAN AREA	SAMPLING METHOD :	LSOP 5
NAME OF PROJECT	TANDSI UG	SAMPLING PLAN :	LQR 47

MINE DISCHARGE: KTUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
12-02-2020	7.3	24	32	<2
24-02-2020	7.1	28	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: KANHAN AREA
NAME OF PROJECT: TANDSI UG

YEAR: 2020
MONTH: FEBRUARY

FAN HOUSE: KTUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	13-02-2020	70.1	68.3
FEB 2020	25-02-2020	45.6	43.9
TLV		75	70

COLONY: KTUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	13-02-2020	45.6	41.1
FEB 2020	25-02-2020	43.5	42.3
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

BARKUHI OC

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



FEBRUARY -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
3	WATER QUALITY MONITORING DATA	-
4	NOISE LEVEL DATA	5

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 Penchrive. 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 :	PBOA1
2	SAM OFFICE:	PBOA2
3	CHANDAMETA WORKSHOP:	PBOA3
4	CENTRAL SCHOOL:	PBOA4

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NEAR BARKUHI HOSPITAL:	PBON1

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/FEBRUARY-20/A57	DATE OF ISSUE	31-03-2020
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	PENCH AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	BARKUHI OC	SAMPLING PLAN	LQR 47

MANAGER OFFICE : PBOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-02-2020	184	128	36	29	19
25-02-2020	175	107	46	28	16
TLV	600	300	60	120	120

SAM OFFICE: PBOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-02-2020	174	122	42	26	17
25-02-2020	188	123	36	28	17
TLV	600	300	60	120	120

CHANDAMETA WORKSHOP: PBOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-02-2020	192	134	44	27	18
24-02-2020	214	158	42	29	16
TLV	600	300	60	120	120

CENTRAL SCHOOL: PBOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-02-2020	184	124	38	29	18
24-02-2020	165	117	38	27	18
TLV	200	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: PENCH AREA
NAME OF PROJECT: BARKUHI OC

YEAR: 2020
MONTH: FEBRUARY

NEAR BARKUHI HOSPITAL: PBON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	10-02-2020	46.2	45.4
FEB 2020	24-02-2020	52.6	52.4
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

CHANDAMETA WORKSHOP

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



FEBRUARY-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
3	WATER QUALITY MONITORING DATA	-
4	NOISE LEVEL DATA	5

INTRODUCTION

Chandameta Workshop 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 Pench 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	CHANDAMETA WORKSHOP :	PCWA1

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NEAR CHANDAMETA WORKSHOP:	PCWN1

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/FEBRUARY-20/A58	DATE OF ISSUE	31-03-2020
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	PENCH AREA	SAMPLING METHOD: LSOP 4	
NAME OF PROJECT	CHANDAMETA WORKSHOP	SAMPLING PLAN : LQR 47	

CHANDAMETA WORKSHOP : PCWA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-02-2020	192	134	44	27	18
24-02-2020	214	158	42	29	16
TLV	600	300	60	120	120

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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: PENCH AREA **YEAR: 2020**
NAME OF PROJECT: CHANDAMETA WORKSHO **MONTH: FEBRUARY**

NEAR CHANDAMETA WORKSHOP: PCWN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	10-02-2020	60.4	58.8
FEB 2020	24-02-2020	53.7	53.2
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

CHINDA OC

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 800004



FEBRUARY-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
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

INTRODUCTION

Chinda 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 Pench 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:	PCOA1
2	CHINDA OC - SITE:	PCOA2
3	CHINDA VILLAGE:	PCOA3
4	CHINDA COLONY:	PCOA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	PCOW1

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NEAR MANAGER OFFICE:	PCON1
2	COLONY:	PCON2

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/FEBRUARY-20/A64	DATE OF ISSUE	31-03-2020
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	PENCH AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	CHINDA OC	SAMPLING PLAN : LQR 47	

SAM OFFICE: PCOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-02-2020	186	138	34	27	17
23-02-2020	198	146	42	29	19
TLV	600	300	60	120	120

CHINDA OC - SITE: PCOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-02-2020	235	183	38	25	19
22-02-2020	244	180	46	26	14
TLV	600	300	60	120	120

CHINDA VILLAGE: PCOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-02-2020	120	78	28	18	14
23-02-2020	132	81	36	27	17
TLV	200	100	60	80	80

CHINDA COLONY: PCOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-02-2020	174	124	36	24	17
22-02-2020	191	137	38	22	14
TLV	200	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.
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/FEBRUARY-20/W64	DATE OF ISSUE	31-03-2020
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	PENCH AREA	SAMPLING METHOD: LSOP 5	
NAME OF PROJECT	CHINDA OC	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: PCOW1				
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
08-02-2020	6.7	24	32	<2
22-02-2020	7.9	18	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: PENCH AREA
NAME OF PROJECT: CHINDA OC

YEAR: 2020
MONTH: FEBRUARY

NEAR MANAGER OFFICE: PCON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	10-02-2020	49.9	48.4
FEB 2020	24-02-2020	46.6	45.4
TLV		75	70

COLONY: PCON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	10-02-2020	44.8	43.6
FEB 2020	24-02-2020	43.5	43.3
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

GANPATI UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



FEBRUARY-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
3	WATER QUALITY MONITORING DATA	-
4	NOISE LEVEL DATA	5

INTRODUCTION

Ganpati UG is located in Chhindwara district of Madhya Pradesh state. The project is administered by Pench Area of Western Coalfields Limited. The climate of the area is tropica. 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	LAMP ROOM :	PGUA1
2	MANAGER OFFICE:	PGUA2
3	COLONY EDC- DISPENSARY:	PGUA3
4	GUEST HOUSE- PARASIA:	PGUA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	BG SIDING:	PGUF1

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE:	PGUN1
2	COLONY:	PGUN2

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/FEBRUARY-20/A60	DATE OF ISSUE	31-03-2020
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	PENCH AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	GANPATI UG	SAMPLING PLAN	LQR 47

LAMP ROOM : PGUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-02-2020	243	187	42	27	18
23-02-2020	256	202	45	24	19
TLV	600	300	60	120	120

MANAGER OFFICE: PGUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-02-2020	246	178	34	28	16
24-02-2020	256	188	46	26	19
TLV	600	300	60	120	120

COLONY EDC- DISPENSARY: PGUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-02-2020	185	133	38	28	19
23-02-2020	198	130	36	28	17
TLV	200	100	60	80	80

GUEST HOUSE- PARASIA: PGUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-02-2020	165	117	34	24	17
24-02-2020	178	124	38	26	19
TLV	200	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: PENCH AREA
NAME OF PROJECT: GANPATI UG

YEAR: 2020
MONTH: FEBRUARY

FAN HOUSE: PGUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	10-02-2020	49.4	47.9
FEB 2020	24-02-2020	56.2	51.3
TLV		75	70

COLONY: PGUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	10-02-2020	44.6	43.5
FEB 2020	24-02-2020	42.6	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

JAMUNIYA UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



FEBRUARY -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
3	WATER QUALITY MONITORING DATA	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 Penchrive. 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 :	PJUA1
2	SUBSTATION:	PJUA2
3	JAMUNIYA VILLAGE:	PJUA3

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	PJUW1

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER OFFICE:	PJUN1

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/FEBRUARY-20/A69	DATE OF ISSUE	31-03-2020
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	PENCH AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	JAMUNIYA UG	SAMPLING PLAN	LQR 47

MANAGER OFFICE : PJUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-02-2020	176	124	36	27	17
19-02-2020	188	132	36	26	14
TLV	600	300	60	120	120

SUBSTATION: PJUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-02-2020	165	107	34	26	16
19-02-2020	174	122	34	29	18
TLV	600	300	60	120	120

JAMUNIYA VILLAGE: PJUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-02-2020	154	106	29	25	15
19-02-2020	186	130	38	28	17
TLV	200	100	60	80	80


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.
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/FEBRUARY -20/W69	DATE OF ISSUE	31-03-2020
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	PENCH AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	JAMUNIYA UG	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: PJUW1				
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
04-02-2020	7.2	18	28	<2
19-02-2020	7.9	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: PENCH AREA
NAME OF PROJECT: JAMUNIYA UG

YEAR: 2020
MONTH: FEBRUARY

MANAGER OFFICE: PJUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	06-02-2020	49.6	48.7
FEB 2020	21-02-2020	44.3	42.6
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

MAHADEOPURI UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



FEBRUARY-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
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

INTRODUCTION

Mahadeopuri UG is located in Chhindwara district of Madhya Pradesh. The project is administered by Pench 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 :	PMUA1
2	LAMP ROOM:	PMUA2
3	GUEST HOUSE PARASIA:	PMUA3
4	COLONY EDC- DISPENSARY:	PMUA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	EDC SIDING:	PMUF1

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	PMUW1

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE:	PMUN1
2	COLONY:	PMUN2

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/FEBRUARY-20/A59	DATE OF ISSUE	31-03-2020
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	PENCH AREA	SAMPLING METHOD:	LSOP 4
NAME OF PROJECT	MAHADEOPURI UG	SAMPLING PLAN :	LQR 47

MANAGER OFFICE : PMUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-02-2020	246	178	34	28	16
24-02-2020	256	188	46	2+6	19
TLV	600	300	60	120	120

LAMP ROOM: PMUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-02-2020	243	187	42	27	18
23-02-2020	256	202	45	24	19
TLV	600	300	60	120	120

GUEST HOUSE PARASIA: PMUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-02-2020	165	117	34	24	17
24-02-2020	178	124	38	26	19
TLV	200	100	60	80	80

COLONY EDC- DISPENSARY: PMUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-02-2020	185	133	38	28	19
23-02-2020	198	130	36	28	17
TLV	200	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.
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/FEBRUARY-20/W59	DATE OF ISSUE	31-03-2020
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	PENCH AREA	SAMPLING METHOD :	LSOP 5
NAME OF PROJECT	MAHADEOPURI UG	SAMPLING PLAN :	47

MINE WATER DISCHARGE: PMUW1				
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
09-02-2020	7.3	14	20	<2
24-02-2020	8.3	18	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: PENCH AREA
NAME OF PROJECT: MAHADEOPURI UG

YEAR: 2020
MONTH: FEBRUARY

FAN HOUSE: PMUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	10-02-2020	69.8	67.3
FEB 2020	24-02-2020	69.7	69.5
TLV		75	70

COLONY: PMUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	10-02-2020	43.6	42.5
FEB 2020	24-02-2020	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

NEHARIA UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



FEBRUARY 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
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

INTRODUCTION

Naheria UG project is located in Chhindwara district of Madhya Pradesh. The project is administered by Pench Area of Western Coalfields Limited. The drainage of area is mainly controlled by the Perennial Gunor river and Dhankasa nullah. 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 :	PNUA1
2	LAMP ROOM/ SUBSTATION:	PNUA2
3	NEHARIA VILLAGE:	PNUA3
4	BOKAI TOWNSHIP:	PNUA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	PNUW1

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE:	PNUN1
2	COLONY:	PNUN2

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/FEBRUARY-20/A67	DATE OF ISSUE	31-03-2020
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), NO _x (06:2006), SO ₂ (02:2001)], PM-2.5 & SPM*		
NAME OF AREA	PENCH AREA	SAMPLING METHOD: LSOP 4	
NAME OF PROJECT	NEHARIA UG	SAMPLING PLAN : LQR 47	

SAM OFFICE : PNUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-02-2020	192	134	36	27	17
18-02-2020	217	157	42	22	12
TLV	600	300	60	120	120

LAMP ROOM/ SUBSTATION: PNUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-02-2020	176	124	32	28	19
18-02-2020	188	136	36	24	14
TLV	600	300	60	120	120

NEHARIA VILLAGE: PNUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-02-2020	145	97	38	22	16
18-02-2020	157	108	38	29	18
TLV	200	100	60	80	80

BOKAI TOWNSHIP: PNUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-02-2020	186	128	36	24	17
18-02-2020	195	128	38	26	16
TLV	200	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.
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/FEBRUARY -20/W67	DATE OF ISSUE	31-03-2020
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	PENCH AREA	SAMPLING METHOD :	LSOP 5
NAME OF PROJECT	NEHARIA UG	SAMPLING PLAN :	LQR 47

MINE WATER DISCHARGE: PNUW1				
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
05-02-2020	7.3	14	20	<2
18-02-2020	7.8	16	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: PENCH AREA
NAME OF PROJECT: NEHARIA UG

YEAR: 2020
MONTH: FEBRUARY

FAN HOUSE: PNUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	06-02-2020	68.6	67.5
FEB 2020	21-02-2020	72.6	72.4
TLV		75	70

COLONY: PNUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	06-02-2020	45.1	43.6
FEB 2020	21-02-2020	43.5	43.3
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

NEW SETHIA OC

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



FEBRUARY-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
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

INTRODUCTION

New Sethia 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 Pench 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	NEW SETHIA OC SITE:	PSOA1
2	SAM OFFICE:	PSOA2
3	CHINDA VILLAGE:	PSOA3
4	CHINDA COLONY:	PSOA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	PSOW1

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NEAR MANAGER OFFICE:	PSON1
2	COLONY- CHINDA:	PSON2

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/FEBRUARY-20/A65	DATE OF ISSUE	31-03-2020
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), NO _x (06:2006), SO ₂ (02:2001)], PM-2.5 & SPM*		
NAME OF AREA	PENCH AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	NEW SETHIA OC	SAMPLING PLAN : LQR 47	

NEW SETHIA OC SITE: PSOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-02-2020	245	181	38	27	18
22-02-2020	234	172	46	26	18
TLV	600	300	60	120	120

SAM OFFICE: PSOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-02-2020	186	138	34	27	17
23-02-2020	198	146	42	29	19
TLV	600	300	60	120	120

CHINDA VILLAGE: PSOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-02-2020	120	78	28	18	12
23-02-2020	132	81	36	27	17
TLV	200	100	60	80	80

CHINDA COLONY: PSOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-02-2020	174	124	36	24	17
22-02-2020	191	137	38	22	14
TLV	200	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.
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/FEBRUARY-20/W65	DATE OF ISSUE	31-03-2020
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	PENCH AREA	SAMPLING METHOD :	LSOP 5
NAME OF PROJECT	NEW SETHIA OC	SAMPLING PLAN :	LQR 47

MINE WATER DISCHARGE: PSOW1				
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
09-02-2020	6.8	28	36	<2
22-02-2020	8.1	22	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: PENCH AREA
NAME OF PROJECT: NEW SETHIA OC

YEAR: 2020
MONTH: FEBRUARY

NEAR MANAGER OFFICE: PSON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	06-02-2020	51.4	50.2
FEB 2020	24-02-2020	52.7	52.6
TLV		75	70

COLONY- CHINDA: PSON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	06-02-2020	44.8	43.6
FEB 2020	24-02-2020	43.5	43.3
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

SHIVPURI OC

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



FEBRUARY-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
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

INTRODUCTION

Shivpuri 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 Pench 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	SITE OFFICE:	PSOA1
2	SUBSTATION-VISHNUPURI UG:	PSOA2
3	COLONY GUEST HOUSE SHIVPURI:	PSOA3
4	CHINDA VILLAGE:	PSOA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	PSOW1

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NEAR MANAGER OFFICE:	PSON1
2	COLONY:	PSON2

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/FEBRUARY-20/A63	DATE OF ISSUE	31-03-2020
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	PENCH AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	SHIVPURI OC	SAMPLING PLAN : LQR 47	

SITE OFFICE: PSOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-02-2020	330	262	52	29	18
21-02-2020	320	252	58	28	17
TLV	600	300	60	120	120

SUBSTATION-VISHNUPURI UG: PSOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-02-2020	242	186	46	27	17
21-02-2020	258	206	46	32	19
TLV	600	300	60	120	120

COLONY GUEST HOUSE SHIVPURI: PSOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-02-2020	149	107	32	24	19
21-02-2020	157	109	36	26	16
TLV	200	100	60	80	80

CHINDA VILLAGE: PSOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-02-2020	120	78	28	18	12
23-02-2020	132	81	36	27	17
TLV	200	100	60	80	80


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.
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/FEBRUARY-20/W63	DATE OF ISSUE	31-03-2020
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	PENCH AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	SHIVPURI OC	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: PSOW1				
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
06-02-2020	6.8	18	28	<2
19-02-2020	7.8	22	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: PENCH AREA
NAME OF PROJECT: SHIVPURI OC

YEAR: 2020
MONTH: FEBRUARY

NEAR MANAGER OFFICE: PSON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	06-02-2020	51.2	50.4
FEB 2020	21-02-2020	46.3	44.2
TLV		75	70

COLONY: PSON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	06-02-2020	43.8	42.6
FEB 2020	21-02-2020	43.4	43.3
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

THESGORA MATHANI -UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



FEBRUARY-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

Thesgora & Mathani UG projects are located in Chhindwara district of Madhya Pradesh. The projects are administered by Pench Area of Western Coalfields Limited. A no. of seasonal nallas flow through the area, which finally drain into Pench river and Gunar nadi. The climate of the area is tropical. Transportation roads, agricultural and local activities, vehicular traffic etc contributes to the pollution

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MATHANI VILLAGE:	PTUA1
2	SAM OFFICE:	PTUA2
3	MANAGER OFFICE- MATHANI:	PTUA3
4	JHURE COLONY- FILTER PLANT	PTUA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE DISCHARGE:	PTUW1

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE- MATHANI:	PTUN1
2	COLONY- THESGORA:	PTUN2

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/FEBRUARY-20/A66	DATE OF ISSUE	31-03-2020
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	PENCH AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	THESGORA MATHANI -UG	SAMPLING PLAN	LQR 47


MATHANI VILLAGE: PTUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-02-2020	156	104	28	18	14
20-02-2020	167	115	36	29	16
TLV	200	100	60	80	80

SAM OFFICE: PTUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-02-2020	192	138	36	25	16
21-02-2020	212	153	40	29	17
TLV	600	300	60	120	120

MANAGER OFFICE- MATHANI: PTUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-02-2020	162	112	34	27	19
20-02-2020	175	117	32	24	14
TLV	600	300	60	120	120

JHURE COLONY- FILTER PLANT PTUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-02-2020	156	108	32	22	14
20-02-2020	166	113	34	27	16
TLV	200	100	60	80	80


 SCIENTIFIC ASSISTANT



 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

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

TSET REPORT NO.	RIN/TR/FEBRUARY-20/W66	DATE OF ISSUE	31-03-2020
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	PENCH AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	THESGORA MATHANI -UG	SAMPLING PLAN : LQR 47	

MINE DISCHARGE: PTUW1				
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
05-02-2020	6.9	16	24	<2
20-02-2020	7.6	18	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: PENCH AREA **YEAR: 2020**
NAME OF PROJECT: THESGORA MATHANI -UG **MONTH: FEBRUARY**

FAN HOUSE- MATHANI: PTUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	09-01-2020	68.1	67.4
FEB 2020	21-02-2020	72.7	72.5
TLV		75	70

COLONY (THESGORA)			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	09-01-2020	44.6	43.8
FEB 2020	21-02-2020	44.5	43.6
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

URDHAN OC

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



FEBRUARY-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
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

INTRODUCTION

UrdhanOC project is located in Chhindwara district of Madhya Pradesh. The project is administered by Pench Area of Western Coalfields Limited. The drainage of area is mainly controlled by the Perennial Gunorrive and Dhankasanullah. 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	URDHAN MANAGER OFFICE:	PUOA1
2	URDHAN VILLAGE:	PUOA2
3	NEHARIA VILLAGE:	PUOA3
4	BOKAI TOWNSHIP:	PUOA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	PUOW1

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NEAR MANGER OFFICE:	PUON1

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/FEBRUARY-20/A68	DATE OF ISSUE	31-03-2020
NAME OF CUSTOMER	GM(ENV.)WCL(HQ) ,NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/17-K/520-522 DATED: 18.04.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)],PM-2.5 & SPM*		
NAME OF AREA	PENCH AREA	SAMPLING METHOD :	LSOP 4
NAME OF PROJECT	URDHAN OC	SAMPLING PLAN :	LQR 47

URDHAN MANAGER OFFICE: PUOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-02-2020	246	181	38	29	19
20-02-2020	254	188	48	24	16
TLV	600	300	60	120	120

URDHAN VILLAGE: PUOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-02-2020	165	111	32	22	16
19-02-2020	175	125	38	28	17
TLV	200	100	60	80	80

NEHARIA VILLAGE: PUOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-02-2020	145	97	38	22	16
18-02-2020	157	108	38	29	18
TLV	200	100	60	80	80

BOKAI TOWNSHIP: PUOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-02-2020	186	128	36	24	17
18-02-2020	188	136	36	24	14
TLV	200	100	60	80	80

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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: PENCH AREA
NAME OF PROJECT: URDHAN OC

YEAR: 2020
MONTH: FEBRUARY

NEAR MANGER OFFICE: PUON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	06-02-2020	51.4	50.2
FEB 2020	21-02-2020	51.6	51.4
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

VISHNUPURI -II UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



FEBRUARY -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
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

INTRODUCTION

Vishnupuri – II UG is located in Chhindwara district of Madhya Pradesh. The project is administered by Pench Area of Western Coalfields Limited. Drainage of the area is controlled by Pench river. There are some seasonal nalla also flowing 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:	PV2UA1
2	SUBSTATION:	PV2UA2
3	COLONY GUEST HOUSE SHIVPURI:	PV2UA3
4	CHINDA VILLAGE:	PV2UA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE- II :	PV2UW1

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE UG-I:	PV2UN1
2	COLONY (VISHNUPURI -I):	PV2UN2

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/FEBRUARY-20/A62	DATE OF ISSUE	31-03-2020
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	PENCH AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	VISHNUPURI -II UG	SAMPLING PLAN : LQR 47	

SAM OFFICE: PV2UA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-02-2020	265	207	44	31	16
22-02-2020	278	214	54	28	17
TLV	600	300	60	120	120

SUBSTATION: PV2UA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-02-2020	242	186	46	27	17
21-02-2020	258	206	46	32	19
TLV	600	300	60	120	120

COLONY GUEST HOUSE SHIVPURI: PV2UA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-02-2020	149	107	32	24	19
21-02-2020	157	109	36	26	16
TLV	200	100	60	80	80

CHINDA VILLAGE: PV2UA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-02-2020	120	78	28	18	12
23-02-2020	132	81	36	27	177
TLV	200	100	60	80	80


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.
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/FEBRUARY-20/W62	DATE OF ISSUE	31-03-2020
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	PENCH AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	VISHNUPURI -II UG	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE- II : PV2UW1				
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
07-02-2020	7.5	16	24	<2
21-02-2020	8.4	14	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: PENCH AREA **YEAR: 2020**
NAME OF PROJECT: VISHNUPURI -II UG **MONTH: FEBRUARY**

FAN HOUSE UG-I: PV2UN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	10-02-2020	70.1	68.8
FEB 2020	24-02-2020	71.7	71.6
TLV		75	70

COLONY (VISHNUPURI -I): PV2UN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	10-02-2020	43.9	42.7
FEB 2020	24-02-2020	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

VISHNUPURI -I UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



FEBRUARY-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
4	NOISE LEVEL DATA	5

INTRODUCTION

Vishnupuri – I UG is located in Chhindwara district of Madhya Pradesh. The project is administered by Pench Area of Western Coalfields Limited. Drainage of the area is controlled by Pench river. There are some seasonal nalla also flowing through the area. The climate of the area is tropical. Transportation roads, agricultural and local activities, vehicular traffic etc also contribute to the pollution.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	SAM OFFICE:	PV1UA1
2	SUBSTATION:	PV1UA2
3	COLONY GUEST HOUSE SHIVPURI:	PV1UA3
4	CHINDA VILLAGE:	PV1UA4

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE UG-I:	PV1UN1
2	COLONY (VISHNUPURI -I):	PV1UN2

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/FEBRUARY-20/A61	DATE OF ISSUE	31.03.2020
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	PENCH AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	VISHNUPURI -I UG	SAMPLING PLAN	LQR 47

SAM OFFICE: PV1UA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-02-2020	265	207	44	31	16
22-02-2020	278	214	54	28	17
TLV	600	300	60	120	120

SUBSTATION: PV1UA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-02-2020	242	186	46	27	17
21-02-2020	258	206	46	32	19
TLV	600	300	60	120	120

COLONY GUEST HOUSE SHIVPURI: PV1UA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-02-2020	149	107	32	24	19
21-02-2020	157	109	36	26	16
TLV	200	100	60	80	80

CHINDA VILLAGE: PV1UA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-02-2020	120	78	28	18	12
23-02-2020	132	81	36	27	17
TLV	200	100	60	80	80

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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: PENCH AREA
NAME OF PROJECT: VISHNUPURI -I UG

YEAR: 2020
MONTH: FEBRUARY

COLONY (VISHNUPURI -I): PV1UN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	10-02-2020	43.9	42.2
FEB 2020	24-02-2020	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

CHATTARPUR-I & II UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



FEBRUARY 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
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

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/FEBRUARY -20/A81	DATE OF ISSUE	31-03-2020
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	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)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-02-2020	138	70	25	21	<10
23-02-2020	142	84	45	30	10
TLV	600	300	60	120	120

SAM OFFICE: PKCUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-02-2020	146	75	28	24	<10
23-02-2020	132	70	33	28	<10
TLV	600	300	60	120	120

SUBSTATION- CHATTARPUR II UG: PKCUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-02-2020	152	88	35	31	10
24-02-2020	163	86	44	33	11
TLV	600	300	60	120	120

CHATTARPUR VILLAGE: PKCUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-02-2020	168	93	33	29	<10
24-02-2020	172	96	36	30	10
TLV	200	100	60	80	80




SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	This Report refers to the values related to the items tested
2	This Report cannot be reproduced in part or full without written permission of the management.
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/FEBRUARY -20/W81	DATE OF ISSUE	31-03-2020
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	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	32	2
11-02-2020	7.36	34	36	<2
23-02-2020	7.48	34	32	<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	32	2
11-02-2020	7.61	36	40	<2
23-02-2020	8.02	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: PATHAKHERA AREA YEAR: 2020
NAME OF PROJECT: CHATTARPUR-I & II UG MONTH: FEBRUARY

FAN HOUSE- I UG: PKCUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	11-02-2020	69.7	68.2
FEB 2020	21-02-2020	69.2	67.9
TLV		75	70
FAN HOUSE- II UG: PKCUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	11-02-2020	69.2	67.9
FEB 2020	21-02-2020	70.1	68.4
TLV		75	70

COLONY: PKCUN3			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	11-02-2020	54.2	51.1
FEB 2020	21-02-2020	46.5	43.4
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

SARNI UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



FEBRUARY -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

SarniUG 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/FEBRUARY -20/A83	DATE OF ISSUE	31-03-2020
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	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 µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-02-2020	182	99	38	35	13
21-02-2020	190	99	43	30	<10
TLV	600	300	60	120	120

NEAR DY. CME OFFICE: PKSUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-02-2020	196	90	32	27	<10
22-02-2020	189	96	39	32	11
TLV	600	300	60	120	120

GM OFFICE ENTRANCE GATE: PKSUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-02-2020	199	87	28	24	<10
22-02-2020	162	81	38	28	<10
TLV	200	100	60	80	80

PATHAKHERA COLONY: PKSUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-02-2020	193	107	35	32	12
21-02-2020	172	89	30	23	<10
TLV	200	100	60	80	80

FUGITIVE DUST MONITORING DATA

CHP:PKSUF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
21-02-2020	200	100	48



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. |

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

TSET REPORT NO.	RIN/TR/FEBRUARY -20/W83	DATE OF ISSUE	31-03-2020
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	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
09-02-2020	7.97	28	36	<2
21-02-2020	7.96	24	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: PATHAKHERA AREA YEAR: 2020
NAME OF PROJECT: SARNI UG MONTH: FEBRUARY

FAN HOUSE: PKSUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	11-02-2020	69.4	67.8
FEB 2020	21-02-2020	69.9	68.1
TLV		75	70

COLONY: PKSUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	11-02-2020	46.6	43.5
FEB 2020	21-02-2020	46.2	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

SHOBHAPUR UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



FEBRUARY -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

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/FEBRUARY -20/A82	DATE OF ISSUE	31-03-2020
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), NO _x (06:2006), SO ₂ (02:2001)],PM-2.5 & SPM*		
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)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-02-2020	157	84	27	25	<10
22-02-2020	140	87	28	20	<10
TLV	600	300	60	120	120

SUBSTATION: PKSUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-02-2020	188	110	35	32	12
23-02-2020	192	100	49	37	12
TLV	600	300	60	120	120

SHOBHAPUR VILLAGE: PKSUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-02-2020	177	72	22	20	<10
20-02-2020	189	86	38	32	10
TLV	200	100	60	80	80

SHOBHAPUR COLONY: PKSUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-02-2020	189	90	36	32	12
23-02-2020	172	108	55	36	13
TLV	200	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.

CHP:PKSUF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM _{2.5}
DETECTION LIMIT	5	5	2
22-02-2020	260	166	58



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. |

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

TSET REPORT NO.	RIN/TR/FEBRUARY-20/W82	DATE OF ISSUE	31-03-2020
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	PATHAKHERA AREA	SAMPLING METHOD	LSOP 5
NAME OF PROJECT	SHOBHAPUR UG	SAMPLING PLAN	LQR 47

MINE DISCHARGE: PKS UW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
10-02-2020	7.69	30	44	<2
23-02-2020	8.05	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: PATHAKHERA AREA **YEAR: 2020**
NAME OF PROJECT: SHOBHAPUR UG **MONTH: FEBRUARY**

FAN HOUSE: PKSUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	11-02-2020	70.4	68.2
FEB 2020	21-02-2020	70.1	69.5
TLV		75	70

COLONY: PKSUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	11-02-2020	45.2	42.9
FEB 2020	21-02-2020	45.2	43.6
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



FEBRUARY 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
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

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 nallahs 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/FEBRUARY -20/A85	DATE OF ISSUE	31-03-2020
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	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 µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-02-2020	166	89	33	30	10
21-02-2020	188	97	46	36	12
TLV	600	300	60	120	120

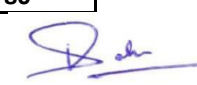
SAM OFFICE: PKT2UA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-02-2020	133	73	27	23	<10
20-02-2020	170	75	36	30	10
TLV	600	300	60	120	120

MPEB COLONY: PKT2UA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-02-2020	147	77	24	20	<10
20-02-2020	159	80	28	24	<10
TLV	200	100	60	80	80

HIRA PALLA/BHAGIKHAAPA VILLAGE: PKT2UA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-02-2020	142	82	30	23	<10
20-02-2020	182	91	36	33	11
TLV	200	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.

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

TSET REPORT NO.	RIN/TR/FEBRUARY-20/W85	DATE OF ISSUE	31-03-2020
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	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
09-02-2020	8.04	18	36	<2
21-02-2020	7.89	38	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: PATHAKHERA AREA
NAME OF PROJECT: TAWA II UG

YEAR: 2020
MONTH: FEBRUARY

FAN HOUSE: PKTUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	11-02-2020	69.1	67.7
FEB 2020	21-02-2020	69.4	67.8
TLV		75	70

COLONY: PKTUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	11-02-2020	44.6	41.9
FEB 2020	21-02-2020	45.1	43.9
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

TAWA UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



FEBRUARY 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
3	WATER QUALITY MONITORING DATA	5
4	NOISE LEVEL DATA	6

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 nallahs 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/FEBRUARY-20/A84	DATE OF ISSUE	31.03.2020
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	PATHAKHERA AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	TAWA UG	SAMPLING PLAN : LQR 47	

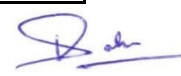
SAM OFFICE: PKTUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-02-2020	133	73	27	23	<10
20-02-2020	170	75	36	30	10
TLV	600	300	60	120	120

MANAGER OFFICE- TAWA II: PKTUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-02-2020	166	89	33	30	10
21-02-2020	188	97	46	36	12
TLV	600	300	60	120	120

MPEB COLONY: PKTUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-02-2020	147	77	24	20	<10
20-02-2020	159	80	28	24	<10
TLV	200	100	60	80	80

HIRA PALLA/BHAGIKHAAPA VILLAGE: PKTUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-02-2020	142	82	30	23	<10
20-02-2020	182	91	36	33	11
TLV	200	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. |

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

TSET REPORT NO.	RIN/TR/FEBRUARY-20/W84	DATE OF ISSUE	31.03.2020
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	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
09-02-2020	7.66	20	32	<2
21-02-2020	8.26	28	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.
3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: PATHAKHERA AREA
NAME OF PROJECT: TAWA UG

YEAR: 2020
MONTH: FEBRUARY

FAN HOUSE: PKTUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	11-02-2020	68.9	67.1
FEB 2020	21-02-2020	69.6	67.5
TLV		75	70

COLONY: PKTUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
FEB 2020	11-02-2020	44.6	42.5
FEB 2020	21-02-2020	45.1	43.9
TLV		55	45