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ENVIRONMENTAL MONITORING REPORT

BALLARPUR OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



MARCH -2020

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

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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INDEX

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

INTRODUCTION

Ballarpur 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
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TSET REPORT NO.	RIN/TR/MARCH -20/A20	DATE OF ISSUE	15-04-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	BALLARPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	BALLARPUR OC	SAMPLING PLAN : LQR 47	

MANAGER OFFICE- BALLARPUR UG: BBOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
16-03-2020	86	32	28	18
17-03-2020	94	38	27	16
TLV	300	60	120	120

SUBSTATION: BBOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
16-03-2020	182	104	28	16
17-03-2020	140	74	28	13
TLV	300	60	120	120

PREMISES OF SUB AREA OFFICE: BBOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
16-03-2020	124	72	26	14
17-03-2020	132	86	21	13
TLV	300	60	120	120

FILTER PLANT COLONY: BBOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
16-03-2020	114	68	27	13
17-3-20	96	52	19	10
TLV	100	60	80	80



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Test Report

Air quality monitoring data

MANAGER OFFICE- BALLARPUR UG: BBOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
16-03-2020	148
17-03-2020	164
TLV	600

SUBSTATION: BBOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
16-03-2020	396
17-03-2020	210
TLV	600

PREMISES OF SUB AREA OFFICE: BBOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
16-03-2020	236
17-03-2020	218
TLV	600

FILTER PLANT COLONY: BBOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
16-03-2020	234
17-03-2020	160
TLV	200



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

TSET REPORT NO.	RIN/TR/MARCH -20/W20	DATE OF ISSUE	15-04-2020
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
15-03-2020	7.32	44	40	<2
16-03-2020	7.28	42	36	<2
TLV	5.5 - 9.0	100	250	10

ETP DISCHARGE: BBOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
15-03-2020	7.46	48	44	<2
16-03-2020	7.64	46	40	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MARCH

CHP: BBON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	13-03-2020	56.7	55.4
MARCH 2020	16-03-2020	57.9	56.2
TLV		75	70

COLONY (BALLARPUR UG): BBON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	13-03-2020	44.4	43.2
MARCH 2020	16-03-2020	45.5	43.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

BALLARPUR UG

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



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INDEX

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

INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH -20/A19	DATE OF ISSUE	15-04-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	BALLARPUR AREA	Sampling Method :	LSOP 4
NAME OF PROJECT	BALLARPUR UG	Sampling Plan :	LQR 47


MANAGER OFFICE- BALLARPUR UG: BBUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
16-03-2020	86	32	28	18
17-03-2020	94	38	27	16
TLV	300	60	120	120

SUBSTATION: BBUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
16-03-2020	182	104	28	16
17-03-2020	140	74	28	13
TLV	300	60	120	120

PREMISES OF SUB AREA OFFICE: BBUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
16-03-2020	124	72	26	14
17-03-2020	132	86	21	13
TLV	300	60	120	120

FILTER PLANT COLONY: BBUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
16-03-2020	114	68	27	13
17-03-2020	96	52	19	10
TLV	100	60	80	80


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Test Report

Air quality monitoring data

MANAGER OFFICE- BALLARPUR UG: BBUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
16-03-2020	148
17-03-2020	164
TLV	600

SUBSTATION: BBUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
16-03-2020	396
17-03-2020	210
TLV	600

PREMISES OF SUB AREA OFFICE: BBUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
16-03-2020	236
17-03-2020	218
TLV	600

FILTER PLANT COLONY: BBUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
16-03-2020	234
17-03-2020	160
TLV	200




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

TSET REPORT NO.	RIN/TR/MARCH -20/W19	DATE OF ISSUE	15-04-2020
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
15-03-2020	7.38	38	36	<2
16-03-2020	7.36	48	44	<2
TLV	5.5 - 9.0	100	250	10


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ENVIRONMENTAL MONITORING REPORT

GOURI- I& II (A) OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



MARCH 2020

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

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INDEX

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

INTRODUCTION

Gouri 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/MARCH -20/A21	DATE OF ISSUE	15-04-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	BALLARPUR AREA	Sampling Method :	LSOP 4
NAME OF PROJECT	GOURI- I& II (A) OC	Sampling Plan :	LQR 47


MANAGER OFFICE- GOURI - I O/C: BGOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-03-2020	148	76	25	16
20-03-2020	214	106	26	21
TLV	300	60	120	120

SAM OFFICE GOURI- SUB AREA: BGOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-03-2020	168	84	24	16
20-03-2020	224	112	27	18
TLV	300	60	120	120

GOURI COLONY/ FILTER PLANT: BGOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-03-2020	84	52	22	12
19-03-2020	98	56	28	14
TLV	100	60	80	80

GOURI VILLAGE: BGOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-03-2020	92	46	28	17
19-03-2020	86	34	24	14
TLV	100	60	80	80


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Test Report

Air quality monitoring data

MANAGER OFFICE- GOURI - I O/C: BGOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-03-2020	352
20-03-2020	358
TLV	600

SAM OFFICE GOURI- SUB AREA: BGOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-03-2020	382
20-03-2020	391
TLV	600

GOURI COLONY/ FILTER PLANT: BGOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-03-2020	152
19-03-2020	176
TLV	200

GOURI VILLAGE: BGOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-03-2020	168
19-03-2020	173
TLV	200



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TSET REPORT NO.	RIN/MARCH -20/W21	DATE OF ISSUE	15-04-2020
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
13-03-2020	7.92	34	32	<2
19-03-2020	7.72	46	40	<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
13-03-2020	7.68	30	28	<2
19-03-2020	7.82	40	36	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

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

CHP: BGON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	60.5	59.2
MARCH 2020	19-03-2020	61.8	60.2
TLV		75	70

GOURI COLONY: BGON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	44.5	43.7
MARCH 2020	19-03-2020	45.8	44.6
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

GOURI DEEP OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



MARCH 2020

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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
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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:

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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
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TSET REPORT NO.	RIN/TR/MARCH -20/A23	DATE OF ISSUE	15-04-2020
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		
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)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
05-03-2020	102	56	19	19
17-03-2020	164	98	26	12
TLV	300	60	120	120

MUTRA VILLAGE: BGDO2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
05-03-2020	96	44	20	12
17-03-2020	82	46	25	19
TLV	100	60	80	80

GOYEGAON VILLAGE: BGDO3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
05-03-2020	88	34	28	21
17-03-2020	94	52	21	<10
TLV	100	60	80	80

ANTARGAON VILLAGE: BGDO4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
05-03-2020	178	104	26	18
21-03-2020	96	62	23	<10
TLV	100	60	80	80


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Test Report

Air quality monitoring data

MANAGER OFFICE: BGDO1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
05-03-2020	182
17-03-2020	312
TLV	600

MUTRA VILLAGE: BGDO2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
05-03-2020	168
17-03-2020	168
TLV	200

GOYEGAON VILLAGE: BGDO3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
05-03-2020	172
17-03-2020	182
TLV	200

ANTARGAON VILLAGE: BGDO4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
05-03-2020	298
21-03-2020	174
TLV	200




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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH -20/W23	DATE OF ISSUE	15-04-2020
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
05-03-2020	7.53	42	36	<2
17-03-2020	7.58	52	44	<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
05-03-2020	7.68	48	40	<2
17-03-2020	7.44	46	36	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

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

MANAGER OFFICE: BGDN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	47.7	46.5
MARCH 2020	19-03-2020	48.2	46.3
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

NEW DHOPTALA OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



MARCH -2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

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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

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
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TSET REPORT NO.	RIN/TR/MARCH -20/A18	DATE OF ISSUE	15.04.2020
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		
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)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-03-2020	154	92	27	16
18-03-2020	132	74	28	15
TLV	300	60	120	120

MANAGER OFFICE- DHOPTALA OC: BNDOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-03-2020	132	74	19	11
18-03-2020	146	68	26	17
TLV	300	60	120	120

SASTI COLONY: BNDOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-03-2020	86	54	21	9
18-03-2020	93	48	23	16
TLV	100	60	80	80

SASTI VILLAGE: BNDOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-03-2020	92	48	18	11
18-03-2020	81	38	24	18
TLV	100	60	80	80


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Test Report

Air quality monitoring data

SAM OFFICE- DHUPTALA SUB AREA: BNDOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-03-2020	218
18-03-2020	249
TLV	600

MANAGER OFFICE- DHOPTALA OC: BNDOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-03-2020	202
18-03-2020	238
TLV	600

SASTI COLONY: BNDOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-03-2020	160
18-03-2020	184
TLV	200

SASTI VILLAGE: BNDOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-03-2020	182
18-03-2020	168
TLV	200



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NOISE LEVEL DATA

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

CHP: BNDN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	13-03-2020	50.8	50.1
MARCH 2020	16-03-2020	51.4	47.3
TLV		75	70

SASTI COLONY: BNDN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	13-03-2020	45.5	44.2
MARCH 2020	16-03-2020	46.6	42.9
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

PAUNI II OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



MARCH 2020

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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

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
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TSET REPORT NO.	RIN/TR/MARCH -20/A24	DATE OF ISSUE	15-04-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	BALLARPUR AREA	SAMPLING METHOD :	LSOP 4
NAME OF PROJECT	PAUNI II OC	SAMPLING PLAN :	LQR 47


MINE OFFICE: BP20A1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-03-2020	182	94	25	16
20-03-2020	178	102	18	11
TLV	300	60	120	120

SUBSTATION: BP20A2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-03-2020	142	78	22	11
21-03-2020	158	86	27	19
TLV	300	60	120	120

SAKHARI VILLAGE: BP20A3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-03-2020	80	44	23	15
20-03-2020	84	46	14	10
TLV	100	60	80	80

WORKSHOP: BP20A4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-03-2020	168	86	24	19
21-03-2020	216	118	24	13
TLV	300	60	120	120


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Test Report

Air quality monitoring data

MINE OFFICE: BP20A1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-03-2020	322
20-03-2020	334
TLV	600

SUBSTATION: BP20A2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-03-2020	282
21-03-2020	294
TLV	600

SAKHARI VILLAGE: BP20A3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-03-2020	214
20-03-2020	178
TLV	200


WORKSHOP: BP20A4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-03-2020	348
21-03-2020	344
TLV	200



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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH -20/W24	DATE OF ISSUE	15-04-2020
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
12-03-2020	7.18	52	44	<2
20-03-2020	7.28	48	40	<2
TLV	5.5 - 9.0	100	250	10

SURFACE WATER QUALITY DATA


NAME OF LOCATION		DATE OF SAMPLING					
WARDHA RIVER UPSTREAM		05.03.2020					
WARDHA RIVER DOWNSTREAM		05.03.2020					
Sl. No.	Parameter	Test method	Detection limit	IS 2296 Inland surface water (1982) class C	Analysis result		Remarks
					Upstream	Downstream	
1	pH Value	IS-3025/11:1983 Electrometric	0.2	6.5 to 8.5	7.32	7.4	
2	Colour (Hz)	APHA, 22nd Edition Platinum Cobalt	1	300	4	5	
3	TDS –mg/l	IS-3025/17:1984 Gravimetric	25	1500	520	560	

4	Oil & Grease -mg/l	IS-3025/39:1991 Partition Gravimetric	2	0.1	BDL	BDL	
5	Dissolved oxygen-mg/l	Is-3025/38.1989 Winkler Azide	0.1	4	4.5	4.3	
6	B.O.D. (3 days at 27°C)-mg/l	IS 3025 (Part 44) : 1993	2	3	4	6	
7	Arsenic -mg/l	APHA, 22nd Edition AAS-GTA	0.005	0.2	BDL	BDL	
8	Lead -mg/l	APHA, 22nd Edition AAS-GTA	0.005	0.1	BDL	BDL	
9	Hexavalent Chromium -mg/l	APHA, 22nd Edition 1,5-Diphenylcarbonylhydrazide	0.01	0.05	BDL	BDL	
10	Copper -mg/l	IS-3025/42:1992 AAS-Flame	0.03	1.5	BDL	BDL	
11	Zinc -mg/l	IS-3025/49:1994 AAS-Flame	0.01	15	BDL	BDL	
12	Selenium -mg/l	APHA, 22nd Edition AAS-VGA	0.005	0.05	BDL	BDL	
13	Cadmium -mg/l	APHA, 22nd Edition AAS-GTA	0.005	0.01	BDL	BDL	
14	Fluoride - mg/l	APHA, 22nd Edition SPADNS	0.02	1.5	0.74	0.78	
15	Iron -mg/l	IS-3025/53:2003 AAS-Flame	0.06	50	BDL	BDL	
16	Nitrate Nitrogen -mg/l	APHA, 22nd Edition UV-Spectrophotometric	0.5	50	3.7	4.1	
17	Sulphate -mg/l	APHA, 22nd Edition Turbidity	2	400	72	84	
18	Chlorides -mg/l	IS-3025/32:1988 AAS-Flame	2	600	68	74	

BDL: BELOW DETECTION LIMIT



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NOISE LEVEL DATA

NAME OF AREA: BALLARPUR AREA **YEAR: 2020**
NAME OF PROJECT: PAUNI II OC **MONTH: MARCH**

MANAGER OFFICE: BP2ON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	56.2	54.8
MARCH 2020	19-03-2020	56.8	53.9
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

PAUNI O/C

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



MARCH -2020

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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
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TSET REPORT NO.	RIN/TR/MARCH -20/A22	DATE OF ISSUE	15-04-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	BALLARPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	PAUNI O/C	SAMPLING PLAN : LQR 47	

MANAGER OFFICE- PAUNI O/C: BPOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-03-2020	172	94	26	13
21-03-2020	214	108	18	9
TLV	300	60	120	120

WORKSHOP- PAUNI O/C: BPOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-03-2020	168	86	24	19
21-03-2020	216	118	24	13
TLV	300	60	120	120

PAUNI VILLAGE: BPOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-03-2020	98	32	23	18
21-03-2020	82	46	23	14
TLV	100	60	80	80

GOURI VILLAGE: BPOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-03-2020	92	46	28	17
19-03-2020	86	34	24	14
TLV	100	60	80	80

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Test Report

Air quality monitoring data

MANAGER OFFICE- PAUNI O/C: BPOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-03-2020	382
21-03-2020	401
TLV	600

WORKSHOP- PAUNI O/C: BPOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-03-2020	348
21-03-2020	344
TLV	600

PAUNI VILLAGE: BPOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-03-2020	178
21-03-2020	144
TLV	200

GOURI VILLAGE: BPOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-03-2020	168
19-03-2020	173
TLV	200



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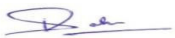
Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH -20/W22	DATE OF ISSUE	15-04-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER 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
12-03-2020	7.54	42	36	<2
20-03-2020	7.38	48	40	<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
12-03-2020	7.36	30	28	<2
20-03-2020	7.48	42	36	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

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

MANAGER OFFICE: BPON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	55.6	54.1
MARCH 2020	19-03-2020	57.3	54.2
TLV		75	70

GOURI COLONY: BPON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	44.5	43.7
MARCH 2020	19-03-2020	45.8	44.6
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

SASTI OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



MARCH 2020

Environment Laboratory
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INDEX

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

INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	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
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TSET REPORT NO.	RIN/TR/MARCH -20/A16	DATE OF ISSUE	15.04.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	BALLARPUR AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	SASTI OC	SAMPLING PLAN	LQR 47


SAM OFFICE-SASTI OC: BSOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-03-2020	168	92	24	13
19-03-2020	182	98	26	18
TLV	300	60	120	120

AREA STORE: BSOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-03-2020	178	84	26	16
19-03-2020	167	74	19	8
TLV	300	60	120	120

GOURI COLONY FILTER PLANT: BSOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-03-2020	84	52	22	12
19-03-2020	98	56	28	14
TLV	100	60	80	80

SASTI VILLAGE: BSOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-03-2020	92	48	18	11
18-03-2020	81	38	24	18
TLV	100	60	80	80


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Test Report

Air quality monitoring data

SAM OFFICE-SASTI OC: BSOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-03-2020	222
19-03-2020	249
TLV	600

AREA STORE: BSOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-03-2020	260
19-03-2020	248
TLV	600

GOURI COLONY FILTER PLANT: BSOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-03-2020	152
19-03-2020	176
TLV	200

SASTI VILLAGE: BSOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-03-2020	182
18-03-2020	168
TLV	200



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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH-20/W16	DATE OF ISSUE	15.04.2020
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
13-03-2020	7.32	30	28	<2
19-03-2020	7.44	34	32	<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
13-03-2020	7.48	34	32	<2
19-03-2020	7.22	38	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
14-03-2020	64	12
16-03-2020	68	10.8
TLV	100	30


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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MARCH

CHP: BSON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	61.8	60.2
MARCH 2020	19-03-2020	62.5	57.9
TLV		75	70

G. COLONY: BSON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	44.5	43.7
MARCH 2020	19-03-2020	45.8	44.6
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

SASTI UG

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



MARCH 2020

Environment Laboratory

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INDEX

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

INTRODUCTION

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

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

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

Fugitive Dust Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH-20/A17	DATE OF ISSUE	15.04.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	BALLARPUR AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	SASTI UG	SAMPLING PLAN	LQR 47


SAM OFFICE- DHUPTALA SUB AREA: BSUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-03-2020	154	92	27	16
18-03-2020	132	74	28	15
TLV	300	60	120	120

MANAGER OFFICE- DHOPTALA OC: BSUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-03-2020	132	74	19	11
18-03-2020	146	68	26	17
TLV	300	60	120	120

SASTI COLONY: BSUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-03-2020	86	54	21	9
18-03-2020	93	48	23	16
TLV	100	60	80	80

SASTI VILLAGE: BSUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-03-2020	92	48	18	11
18-03-2020	81	38	24	18
TLV	100	60	80	80


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Test Report

Air quality monitoring data

SAM OFFICE- DHUPTALA SUB AREA: BSUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-03-2020	218
18-03-2020	234
TLV	600

MANAGER OFFICE- DHOPTALA OC: BSUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-03-2020	202
18-03-2020	238
TLV	600

SASTI COLONY: BSUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-03-2020	160
18-03-2020	184
TLV	200


SASTI VILLAGE: BSUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-03-2020	182
18-03-2020	168
TLV	200



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---	---	--

TSET REPORT NO.	RIN/TR/MARCH -20/W17	DATE OF ISSUE	15.04.2020
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
14-03-2020	7.56	42	36	<2
18-03-2020	7.38	40	32	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

NAME OF AREA: BALLARPUR AREA
NAME OF PROJECT: SASTI UG

YEAR: 2020
MONTH: MARCH

FAN HOUSE: BSUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	13-03-2020	68.9	67.5
MARCH 2020	16-03-2020	70.2	68.8
TLV		75	70

SASTI COLONY: BSUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	13-03-2020	45.5	44.2
MARCH 2020	16-03-2020	46.6	42.9
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

BHATADI OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



MARCH-2020

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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/MARCH-20/A34	DATE OF ISSUE	15.04.2020
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		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD: LSOP 4	
NAME OF PROJECT	BHATADI OC	SAMPLING PLAN : LQR 47	

BHATADI SECURITY POST: CBOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-03-2020	94	39	32	10
19-03-2020	98	42	36	14
TLV	300	60	120	120


BHATADI MANAGER OFFICE: CBOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-03-2020	105	42	36	12
19-03-2020	94	32	28	<10
TLV	300	60	120	120

BHATADI VILLAGE: CBOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-03-2020	81	34	28	<10
19-03-2020	86	38	33	13
TLV	100	60	80	80

VADHOLI VILLAGE: CBOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-03-2020	93	38	34	12
19-03-2020	99	38	33	12
TLV	100	60	80	80



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Test Report

Air quality monitoring data

BHATADI SECURITY POST: CBOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-03-2020	188
19-03-2020	198
TLV	600

BHATADI MANAGER OFFICE: CBOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-03-2020	205
19-03-2020	188
TLV	600

BHATADI VILLAGE: CBOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-03-2020	163
19-03-2020	179
TLV	200


VADHOLI VILLAGE: CBOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-03-2020	173
19-03-2020	184
TLV	200



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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH -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
09-03-2020	7.29	36	24	<2
19-03-2020	7.77	28	20	<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
09-03-2020	7.9	32	20	<2
19-03-2020	8.08	34	28	<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
09-03-2020	36	11.4
19-03-2020	28	11.2
TLV	100	30


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NOISE LEVEL DATA

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

NEAR CHP: CBON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	63.6	63.4
MARCH 2020	20-03-2020	64.4	61.8
TLV		75	70

COLONY: CBON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	43.5	43.4
MARCH 2020	20-03-2020	42.6	41.2
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

CRC UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



MARCH 2020



Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

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INDEX

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

INTRODUCTION

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

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

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

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE :	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
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TSET REPORT NO.	RIN/TR/MARCH -20/A32	DATE OF ISSUE	15-04-2020
NAME OF CUSTOMER	GM(Env), WCL(HQ) NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	CRC UG	SAMPLING PLAN : LQR 47	

MANAGER'S OFFICE MAHAKALI UG: CCRUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-03-2020	98	36	32	11
20-03-2020	90	32	28	<10
TLV	300	60	120	120

CRC SUBSTATION/ FILTER PLANT: CCRUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-03-2020	94	40	33	12
20-03-2020	115	43	32	12
TLV	300	60	120	120

JATWARA MILK SCHEME: CCRUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-03-2020	76	28	24	<10
20-03-2020	70	24	20	<10
TLV	300	60	120	120

COLONY: CCRUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-03-2020	88	38	30	10
20-03-2020	80	36	32	11
TLV	100	60	80	80



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Test Report

Air quality monitoring data

MANAGER'S OFFICE MAHAKALI UG: CCRUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-03-2020	200
20-03-2020	210
TLV	600

CRC SUBSTATION/ FILTER PLANT: CCRUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-03-2020	210
20-03-2020	250
TLV	600

JATWARA MILK SCHEME: CCRUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-03-2020	140
20-03-2020	160
TLV	600


COLONY: CCRUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-03-2020	163
20-03-2020	176
TLV	200



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

TSET REPORT NO.	RIN/TR/MARCH -20/W32	DATE OF ISSUE	15-04-2020
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
07-03-2020	6.69	34	44	<2
20-03-2020	7.1	28	32	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MARCH

CHP: CCRUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	64.7	64.5
MARCH 2020	20-03-2020	65.2	63.8
TLV		75	70

COLONY: CCRUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	43.6	43.4
MARCH 2020	20-03-2020	43.2	42.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

DURGAPUR OC

CHANDRAPUR AREA

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JOB NO. 8000003



MARCH 2020

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INDEX

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

INTRODUCTION

The 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/MARCH-20/A25	DATE OF ISSUE	15.04.2020
NAME OF CUSTOMER	GM (ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	DURGAPUR OC	SAMPLING PLAN : LQR 47	

MANAGER'S OFFICE- SECTOR V: CDOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
04-03-2020	80	32	27	<10
TLV	300	60	120	120

DURGAPUR VILLAGE: CDOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
04-03-2020	94	42	33	12
TLV	100	60	80	80

MANAGER OFFICE Q-IV : CDOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-03-2020	126	32	29	<10
18-03-2020	143	39	32	11
TLV	300	60	120	120

FILTER PLANT DOC/POC COLONY: CDOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
04-03-2020	82	36	30	10
TLV	100	60	80	80



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FUGITIVE DUST MONITORING DATA

CHECK POST/ AYYAPA MANDIR: CDOF2		
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)	
	PM10	PM _{2.5}
DETECTION LIMIT	5	2
04-03-2020	320	196

Name of location			Location Code		Date of sampling
CHECK POST/ AYYAPA MANDIR:			CDOF-1		04.08.19
Sl. No.	Parameter	Method of analysis	Detection limit	Observed value	National Ambient Air Quality Standard NAAQS, 2009
1	Arsenic, $\mu\text{g}/\text{m}^3$	IS 3025(Part 37):1988 AAS-VGA Method	0.0007 $\mu\text{g}/\text{m}^3$	BDL	0.006 $\mu\text{g}/\text{m}^3$ (Annual average)
2	Lead, $\mu\text{g}/\text{m}^3$	APHA,22 nd Edition,3113B AAS- GTA Method	7.0 $\mu\text{g}/\text{m}^3$	BDL	1.0 $\mu\text{g}/\text{m}^3$ (24 Hourly average)
3	Nickle, $\mu\text{g}/\text{m}^3$	IS 3025 (Part 54): 2003, AAS-Flame Method	0.007 $\mu\text{g}/\text{m}^3$	BDL	0.02 $\mu\text{g}/\text{m}^3$ (Annual average)
4	Total Chromium, $\mu\text{g}/\text{m}^3$	IS 3025 (Part 52): 2003, AAS-Flame	0.0045 $\mu\text{g}/\text{m}^3$	BDL	**
5	Cadmium, $\mu\text{g}/\text{m}^3$	APHA,22 nd Edition,3111B AAS- GTA Method	0.0015 $\mu\text{g}/\text{m}^3$	BDL	**

BDL: Below detection limit



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Test Report

Air quality monitoring data

MANAGER'S OFFICE- SECTOR V: CDOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
04-03-2020	160
TLV	600

DURGAPUR VILLAGE: CDOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
04-03-2020	180
TLV	200

MANAGER OFFICE Q-IV : CDOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-03-2020	220
18-03-2020	260
TLV	600

FILTER PLANT DOC/POC COLONY: CDOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
04-03-2020	220
TLV	200



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Test Report

Air quality monitoring data

FUGITIVE DUST MONITORING DATA


CHECK POST/ AYYAPA MANDIR: CDOF2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
04-03-2020	480



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

TSET REPORT NO.	RIN/TR/MARCH-20/W25	DATE OF ISSUE	15.04.2020
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
05-03-2020	7.26	22	28	<2
19-03-2020	7.57	26	32	<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
05-03-2020	7.32	18	24	<2
19-03-2020	7.66	22	36	<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
05-03-2020	28	12
19-03-2020	32	10.2
TLV	100	30



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MARCH

CHP: CDON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	06-03-2020	64.6	64.2
MARCH 2020	19-03-2020	63.5	62.6
TLV		75	70

DURGAPUR COLONY: CDON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	06-03-2020	43.4	43.2
MARCH 2020	19-03-2020	42.2	41.4
TLV		50	45

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ENVIRONMENTAL MONITORING REPORT

DRC UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



MARCH 2020

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INDEX

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

INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :


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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH-20/A33	DATE OF ISSUE	15.04.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	DRC UG	SAMPLING PLAN : LQR 47	

PIT OFFICE-DRC- III UG: CDRUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-03-2020	100	40	35	13
21-03-2020	89	36	32	11
TLV	300	60	120	120

NEHRU NAGAR/ SUBSTATION: CDRUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-03-2020	114	44	38	16
21-03-2020	120	48	32	<10
TLV	300	60	120	120

DRC- V COLONY: CDRUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-03-2020	93	38	32	11
21-03-2020	86	32	27	<10
TLV	100	60	80	80

PIT OFFICE DRC-IV: CDRUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-03-2020	96	45	35	13
21-03-2020	84	40	32	12
TLV	100	60	80	80



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Test Report

Air quality monitoring data

PIT OFFICE-DRC- III UG: CDRUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-03-2020	166
21-03-2020	173
TLV	600

NEHRU NAGAR/ SUBSTATION: CDRUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-03-2020	190
21-03-2020	215
TLV	600

DRC- V COLONY: CDRUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-03-2020	187
21-03-2020	155
TLV	200


PIT OFFICE DRC-IV: CDRUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-03-2020	218
21-03-2020	220
TLV	200



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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH-20/W33	DATE OF ISSUE	15.04.2020
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
08-03-2020	7.89	30	40	<2
21-03-2020	7.44	26	36	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

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

PIT OFFICE DRC- III UG: CDRUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	72.7	72.5
MARCH 2020	20-03-2020	71.5	70.6
TLV		75	70

DURGAPUR COLONY: CDRUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	06-03-2020	43.4	43.2
MARCH 2020	20-03-2020	42.2	41.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

HLP OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



MARCH-2020



Environment Laboratory

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INDEX

SI. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6 TO 7
4	NOISE LEVEL DATA	8

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
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TSET REPORT NO.	RIN/TR/MARCH-20/A28	DATE OF ISSUE	15.04.2020
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		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	HLP OC	SAMPLING PLAN	LQR 47

MANAGER OFFICE(NANDGAON UG): CHOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-03-2020	85	45	36	15
TLV	300	60	120	120

MANAGER OFFICE(HLP OC): CHOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-03-2020	120	40	34	12
TLV	300	60	120	120

MANA VILLAGE : CHOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-03-2020	100	40	30	10
TLV	100	60	80	80

COLONY (NANDGAON): CHOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-03-2020	66	27	20	<10
TLV	100	60	80	80



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Test Report

Air quality monitoring data

MANAGER OFFICE(NANDGAON UG): CHOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-03-2020	178
TLV	600

MANAGER OFFICE(HLP OC): CHOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-03-2020	197
TLV	600

MANA VILLAGE : CHOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-03-2020	177
TLV	200


COLONY (NANDGAON): CHOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-03-2020	143
TLV	200



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

TSET REPORT NO.	RIN/TR/MARCH-20/W28	DATE OF ISSUE	15.04.2020
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
06-03-2020	5.9	30	36	<2
20-03-2020	6.2	34	40	<2
TLV	5.5 - 9.0	100	250	10

SURFACE WATER QUALITY DATA

		NAME OF LOCATION	DATE OF SAMPLING				
		ERAI RIVER UPSTREAM	06.03.2020				
		ERAI RIVER DOWNSTREAM	06.03.2020				
Sl. No.	Parameter	Test method	Detection limit	IS 2296 Inland surface water (1982) class C	Analysis result		Remarks
					Upstream	Downstream	
1	pH Value	IS-3025/11:1983 Electrometric	0.2	6.5 to 8.5	7.23	7.43	
2	Colour (Hz)	APHA, 22nd Edition Platinum Cobalt	1	300	5	7	
3	TDS –mg/l	IS-3025/17:1984 Gravimetric	25	1500	250	300	
4	Oil & Grease –mg/l	IS-3025/39:1991 Partition Gravimetric	2	0.1	BDL	BDL	

5	Dissolved oxygen-mg/l	Is-3025/38.1989 Winkler Azide	0.1	4	4.5	4.3	
6	B.O.D. (3 days at 27°C)-mg/l	IS 3025 (Part 44) : 1993	2	3	4	6	
7	Arsenic -mg/l	APHA, 22nd Edition AAS-GTA	0.005	0.2	BDL	BDL	
8	Lead -mg/l	APHA, 22nd Edition AAS-GTA	0.005	0.1	BDL	BDL	
9	Hexavalent Chromium - mg/l	APHA, 22nd Edition 1,5-Diphenylcarbohydra zide	0.01	0.05	BDL	BDL	
10	Copper -mg/l	IS-3025/42:1992 AAS-Flame	0.03	1.5	BDL	BDL	
11	Zinc -mg/l	IS-3025/49:1994 AAS-Flame	0.01	15	BDL	BDL	
12	Selenium -mg/l	APHA, 22nd Edition AAS-VGA	0.005	0.05	BDL	BDL	
13	Cadmium - mg/l	APHA, 22nd Edition AAS-GTA	0.005	0.01	BDL	BDL	
14	Fluoride - mg/l	APHA, 22nd Edition SPADNS	0.02	1.5	0.68	0.79	
15	Iron -mg/l	IS-3025/53:2003 AAS-Flame	0.06	50	BDL	BDL	
16	Nitrate Nitrogen - mg/l	APHA, 22nd Edition UV-Spectrophotometric	0.5	50	2.1	3.6	
17	Sulphate - mg/l	APHA, 22nd Edition Turbidity	2	400	48	56	
18	Chlorides - mg/l	IS-3025/32:1988 AAS-Flame	2	600	28	36	

BDL: BELOW DETECTION LIMIT



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NOISE LEVEL DATA

NAME OF AREA: CHANDRAPUR AREA **YEAR: 2020**
NAME OF PROJECT: HLP OC **MONTH: MARCH**

CHP: CHON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	06-03-2020	63.6	63.4
MARCH 2020	19-03-2020	64.5	63.6
TLV		75	70

COLONY: CHON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	06-03-2020	43.4	43.2
MARCH 2020	19-03-2020	42.8	41.5
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

HLP I& III UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



MARCH 2020

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INDEX

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

INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :


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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH-20/A27	DATE OF ISSUE	15.04.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	HLP I& III UG	SAMPLING PLAN : LQR 47	


SUBSTATION HLC I UG: CHUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
04-03-2020	154	50	40	13
TLV	300	60	120	120

PIT OFFICE - HLC-I INCLINE: CHUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-03-2020	110	41	32	14
TLV	300	60	120	120

HLC-III COLONY : CHUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-03-2020	85	35	30	10
TLV	100	60	80	80

RAJIV GANDHI ENGG. COLLEGE: CHUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-03-2020	75	30	22	<10
TLV	100	60	80	80


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Test Report

Air quality monitoring data

SUBSTATION HLC I UG: CHUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
04-03-2020	280
TLV	600

PIT OFFICE - HLC-I INCLINE: CHUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-03-2020	245
TLV	600

HLC-III COLONY : CHUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-03-2020	167
TLV	200

RAJIV GANDHI ENGG. COLLEGE: CHUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-03-2020	155
TLV	200



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---	---	--

TSET REPORT NO.	RIN/TR/MARCH-20/W27	DATE OF ISSUE	15.04.2020
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
04-03-2020	7.47	32	40	<2
19-03-2020	7.2	24	32	<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
05-03-2020	7.7	30	44	<2
19-03-2020	7.1	26	40	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

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

FAN HOUSE - I UG: CHUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	06-03-2020	52.7	52.6
MARCH 2020	19-03-2020	53.4	52.2
TLV		75	70

COLONY: CHUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	06-03-2020	43.5	43.3
MARCH 2020	19-03-2020	42.8	42.1
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

MANA UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



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INDEX

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

INTRODUCTION

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

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

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH-20/A30	DATE OF ISSUE	15.04.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	MANA UG	SAMPLING PLAN : LQR 47	

MANAGER'S OFFICE: CMUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-03-2020	95	38	32	11
TLV	300	60	120	120

SUBSTATION MANA INCLINE: CMUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-03-2020	134	50	36	15
TLV	300	60	120	120

COLONY (NANDGAON): CMUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-03-2020	66	27	20	<10
TLV	100	60	80	80

MANA VILLAGE: CMUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-03-2020	100	40	30	10
TLV	100	60	80	80



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Test Report

Air quality monitoring data

MANAGER'S OFFICE: CMUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-03-2020	183
TLV	600

SUBSTATION MANA INCLINE: CMUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-03-2020	238
TLV	600

COLONY (NANDGAON): CMUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-03-2020	143
TLV	200

MANA VILLAGE: CMUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-03-2020	177
TLV	200




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

TSET REPORT NO.	RIN/TR/MARCH-20/W30	DATE OF ISSUE	15.04.2020
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
06-03-2020	7.5	38	44	<2
19-03-2020	7.27	34	40	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

NAME OF AREA: CHANDRAPUR AREA
NAME OF PROJECT: MANA UG

YEAR: 2020
MONTH: MARCH

FAN HOUSE: CMUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	06-03-2020	69.7	69.6
MARCH 2020	19-03-2020	68.9	68.1
TLV		75	70

COLONY (HLP OC): CMUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	06-03-2020	43.4	43.2
MARCH 2020	19-03-2020	42.8	41.5
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

MAHAKALI UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



MARCH 2020

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INDEX

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

INTRODUCTION

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

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

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :


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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

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

TSET REPORT NO.	RIN/TR/MARCH-19/A31	DATE OF ISSUE	15.04.2020
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		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING PLAN	LQR 47
NAME OF PROJECT	MAHAKALI UG	SAMPLING METHOD	LSOP 4

MANAGER'S OFFICE MAHAKALI UG: CMUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-03-2020	98	36	32	11
20-03-2020	90	32	28	<10
TLV	300	60	120	120

CRC SUBSTATION/ FILTER PLANT: CMUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-03-2020	94	40	33	12
20-03-2020	115	43	32	12
TLV	300	60	120	120

JATWARA MILK SCHEME: CMUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-03-2020	76	28	24	<10
20-03-2020	70	24	20	<10
TLV	300	60	120	120

COLONY: CMUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-03-2020	88	38	30	10
20-03-2020	80	36	32	11
TLV	100	60	80	80



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Test Report

Air quality monitoring data

MANAGER'S OFFICE MAHAKALI UG: CMUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-03-2020	200
20-03-2020	210
TLV	600

CRC SUBSTATION/ FILTER PLANT: CMUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-03-2020	210
20-03-2020	250
TLV	600

JATWARA MILK SCHEME: CMUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-03-2020	140
20-03-2020	160
TLV	600

COLONY: CMUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-03-2020	163
20-03-2020	176
TLV	200



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

TSET REPORT NO.	RIN/TR/MARCH-20/W31	DATE OF ISSUE	15.04.2020
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
07-03-2020	7.57	20	32	<2
20-03-2020	7.32	30	36	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MARCH

FAN HOUSE: CMUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	68.7	68.2
MARCH 2020	20-03-2020	67.7	66.5
TLV		75	70

COLONY: CMUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	43.6	43.4
MARCH 2020	20-03-2020	42.8	41.2
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

NANDGAON UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



MARCH 2020

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INDEX

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

INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

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

TSET REPORT NO.	RIN/TR/MARCH-20/A29	DATE OF ISSUE	15.04.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	NANDGAON UG	SAMPLING PLAN : LQR 47	


MANAGER OFFICE NANDGAON UG: CNUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-03-2020	85	45	36	15
TLV	300	60	120	120

SUBSTATION MANA INCLINE: CNUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-03-2020	134	50	36	15
TLV	300	60	120	120

MANA VILLAGE : CNUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-03-2020	100	40	30	10
TLV	100	60	80	80

COLONY (NANDGAON): CNUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-03-2020	66	27	20	<10
TLV	100	60	80	80


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Test Report

Air quality monitoring data

MANAGER OFFICE NANDGAON UG: CNUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-03-2020	178
TLV	600

SUBSTATION MANA INCLINE: CNUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-03-2020	238
TLV	600

MANA VILLAGE : CNUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-03-2020	177
TLV	200

COLONY (NANDGAON): CNUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-03-2020	143
TLV	200




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---	---	--

TSET REPORT NO.	RIN/TR/MARCH-20/W29	DATE OF ISSUE	15.04.2020
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
06-03-2020	7.4	26	32	<2
20-03-2020	7.1	28	36	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

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

FAN HOUSE: CNUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	06-03-2020	72.6	72.4
MARCH 2020	19-03-2020	71.7	70.2
TLV		75	70

COLONY HLP OC: CNUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	06-03-2020	43.4	43.2
MARCH 2020	19-03-2020	42.8	41.5
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

PADMAPUR OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



MARCH 2020

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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/MARCH-20/A26	DATE OF ISSUE	15.04.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	PADMAPUR OC	SAMPLING PLAN	LQR 47


MANAGER'S OFFICE-Q-IV: CPOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-03-2020	126	32	29	<10
18-03-2020	143	39	32	11
TLV	300	60	120	120

WARWAT VILLAGE: CPOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-03-2020	86	35	32	11
18-03-2020	82	32	28	<10
TLV	100	60	80	80

KITADI VILLAGE : CPOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-03-2020	89	36	31	10
18-03-2020	90	32	26	<10
TLV	100	60	80	80

VICHODA RAYATWARI VILLAGE: CPOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-03-2020	89	43	30	10
18-03-2020	75	28	24	<10
TLV	100	60	80	80


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Test Report

Air quality monitoring data

MANAGER'S OFFICE-Q-IV: CPOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
SPM	
DETECTION LIMIT	5
13-03-2020	220
18-03-2020	260
TLV	600

WARWAT VILLAGE: CPOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
SPM	
DETECTION LIMIT	5
12-03-2020	164
18-03-2020	148
TLV	200

KITADI VILLAGE : CPOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
SPM	
DETECTION LIMIT	5
12-03-2020	170
18-03-2020	180
TLV	200

VICHODA RAYATWARI VILLAGE: CPOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
SPM	
DETECTION LIMIT	5
15-03-2020	156
18-03-2020	133
TLV	200



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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH-20/W26	DATE OF ISSUE	15.04.2020
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: CPOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
09-03-2020	7.27	28	24	<2
19-03-2020	7.64	32	36	<2
TLV	5.5 - 9.0	100	250	10

ETP DISCHARGE: CPOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
05-03-2020	7.2	30	32	<2
19-03-2020	7.7	28	40	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

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

CHP: CPON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	64.3	63.7
MARCH 2020	20-03-2020	63.8	62.5
TLV		75	70

DURGAPUR COLONY: CPON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	43.4	43.2
MARCH 2020	19-03-2020	42.2	41.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

JUNA KUNADA OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



MARCH 2020



Environment Laboratory

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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/MARCH-20/A46	DATE OF ISSUE	15.04.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] &PM-2.5		
NAME OF AREA	MAJRI AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	JUNA KUNADA OC	SAMPLING PLAN : LQR 47	

PIT OFFICE: MJOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-03-2020	120	44	32	12
20-03-2020	142	48	37	16
TLV	300	60	120	120

SAM OFFICE CHARGAON: MJOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-03-2020	92	30	20	BDL
21-03-2020	112	42	35	15
TLV	300	60	120	120

EKTA NAGAR COLONY: MJOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-03-2020	52	24	12	10
21-03-2020	63	32	15	12
TLV	100	60	80	80

CHARGAON INTAKE WELL: MJOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-03-2020	110	32	24	11
21-03-2020	93	41	32	14
TLV	100	60	80	80



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Test Report

Air quality monitoring data

PIT OFFICE: MJOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-03-2020	182
21-03-2020	225
TLV	600

SAM OFFICE CHARGAON: MJOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-03-2020	144
21-03-2020	189
TLV	600

EKTA NAGAR COLONY: MJOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-03-2020	78
21-03-2020	112
TLV	200

CHARGAON INTAKE WELL: MJOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-03-2020	156
21-03-2020	180
TLV	200



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NOISE LEVEL DATA

NAME OF AREA: MAJRI AREA
YEAR: 2020

NAME OF PROJECT: JUNA KUNADA OC
MONTH: MARCH

MANAGER OFFICE: MJON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	13-03-2020	45.6	44.3
MARCH 2020	19-03-2020	44.7	42.9
TLV		75	70

EKTA NAGAR COLONY: MJON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	13-03-2020	43.2	42.1
MARCH 2020	19-03-2020	43.4	41.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

NEW MAJRI-II (A)OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



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INDEX

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

INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Fugitive Dust Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

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

TSET REPORT NO.	RIN/TR/MARCH-20/A42	DATE OF ISSUE	15.04.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	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 µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
09-03-2020	148	40	24	BDL
TLV	300	60	120	120

PATALA MAGAZINE: MMOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
09-03-2020	98	24	20	10
TLV	300	60	120	120

PRIMARY HEALTH CENTRE,MAJRI BASTI: MMOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
09-03-2020	98	44	22	BDL
TLV	100	60	80	80

KUCHANA VILLAGE: MMOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
02-03-2020	42	28	12	BDL
03-03-2020	38	30	14	BDL
11-03-2020	36	24	10	BDL
12-03-2020	40	26	13	BDL
TLV	100	60	80	80



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Test Report

Air quality monitoring data

NMOC SUBSTATION: MMOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
09-03-2020	240
TLV	600

PATALA MAGAZINE: MMOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
09-03-2020	136
TLV	600

PRIMARY HEALTH CENTRE, MAJRI BASTI: MMOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
09-03-2020	146
TLV	200

KUCHANA VILLAGE: MMOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
02-03-2020	64
03-03-2020	52
11-03-2020	60
12-03-2020	66
TLV	200

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

TSET REPORT NO.	RIN/TR/MARCH-20/W42	DATE OF ISSUE	15.04.2020
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		COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
12-03-2020	7.2	52	48	BDL
16-03-2020	8.3	50	52	BDL
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
12-03-2020	7.4	66	52	BDL
16-03-2020	8.2	40	36	BDL
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

NAME OF AREA: MAJRI AREA
YEAR: 2020

NAME OF PROJECT: NEW MAJRI-II (A)OC
MONTH: MARCH

FIELD MAIN.SHED: MMON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	09-03-2020	56.8	62.8
MARCH 2020	13-03-2020	56.3	65.2
TLV		75	70

KUCHNA COLONY: MMON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	09-03-2020	43.5	42.1
MARCH 2020	13-03-2020	44.3	49.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

NEW MAJRI-UG TO OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



MARCH 2020

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INDEX

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

INTRODUCTION

New Majri UG to OC Project is located in Chandrapur district of Maharashtra state. The project is administered by Majri Area of Western Coalfields Limited. The Wardha river is the main drainage channel for the surrounding area. The climate of the area is tropical. Transportation roads, agricultural and local activities, vehicular traffic etc also contributes to the pollution.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	PATALA MAGAZINE:	MMUA1
2	MANAGER OFFICE UG TO OC:	MMUA2
3	CONTRACTOR CAMP:	MMUA3
4	SAWARLA VILLAGE	MMUA4

Fugitive Dust Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :


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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

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

TSET REPORT NO.	RIN/TR/MARCH-20/A43	DATE OF ISSUE	15.04.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] &PM-2.5		
NAME OF AREA	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 $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
09-03-2020	98	24	20	10
TLV	300	60	120	120

MANAGER OFFICE UG TO OC: MMUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
09-03-2020	142	46	32	12
TLV	300	60	120	120

CONTRACTOR CAMP:MMUA5				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-03-2020	122	50	20	12
TLV	300	60	120	120

SAWARLA VILLAGE:MMUA6				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-03-2020	54	26	12	10
TLV	100	60	80	80



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Test Report

Air quality monitoring data

PATALA MAGAZINE: MMUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
09-03-2020	136
TLV	600

MANAGER OFFICE UG TO OC: MMUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
09-03-2020	238
TLV	600

CONTRACTOR CAMP: MMUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-03-2020	214
TLV	600

SAWARLA VILLAGE MMUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-03-2020	127
TLV	200




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---	---	--

TSET REPORT NO.	RIN/TR/MARCH-20/W43	DATE OF ISSUE	15.04.2020
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
12-03-2020	7.7	36	32	BDL
16-03-2020	7.5	50	44	BDL
TLV	5.5 - 9.0	100	250	10

ETP:MMUW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
12-03-2020	8	54	52	BDL
16-03-2020	8.3	36	40	BDL
TLV	5.5 - 9.0	100	250	10


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ENVIRONMENTAL MONITORING REPORT

TELWASA OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



MARCH 2020

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INDEX

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

INTRODUCTION

Telwasa OC is located in Chandrapur district of Maharashtra state. The project is administered by Majri Area of Western Coalfields Limited. The Wardha River is the main drainage channel for the surrounding area. A few seasonal nullahs drain the rainwater from the Area into Wardha River. The climate of the area is tropical. Transportation roads, agricultural and local activities, vehicular traffic etc also contributes to the pollution.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	TELWASA SECURITY OFFICE:	MTOA1
2	SAM OFFICE:	MTOA2
3	CHARGAON VILLAGE:	MTOA3
4	EKTA NAGAR COLONY:	MTOA4

Fugitive Dust Monitoring locations:

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

Noise Level Monitoring location :


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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH-20/A43	DATE OF ISSUE	15.04.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] &PM-2.5		
NAME OF AREA	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)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-03-2020	94	38	26	11
TLV	300	60	120	120

SAM OFFICE: MTOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-03-2020	88	4	24	10
TLV	300	60	120	120

CHARGAON VILLAGE: MTOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-03-2020	74	28	16	BDL
TLV	100	60	80	80

EKTA NAGAR COLONY: MTOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-03-2020	52	24	12	10
21-03-2020	63	32	15	12
TLV	100	60	80	80



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Test Report


Air quality monitoring data

TELWASA SECURITY OFFICE: MTOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-03-2020	166
TLV	600

SAM OFFICE: MTOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-03-2020	154
TLV	600

CHARGAON VILLAGE: MTOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-03-2020	112
TLV	200

EKTA NAGAR COLONY: MTOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-03-2020	78
21-03-2020	104
TLV	200



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DEEPANSHU SAHU
MANAGER (ENV.)

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH-20/W43	DATE OF ISSUE	15.04.2020
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

DETP DISCHARGE MTOW1		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS (in mg/l)	BOD (in mg/l)
DETECTION LIMIT	10	2
08-03-2020	44	12
16-03-2020	38	10
TLV	100	30



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MARCH

NEAR PIT OFFICE: MTON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	13-03-2020	53.7	52.6
MARCH 2020	19-03-2020	52.8	51.2
TLV		75	70

EKTA NAGAR COLONY: MTON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	13-03-2020	43.2	42.1
MARCH 2020	19-03-2020	43.4	41.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

YEKONA I& II OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



Mar-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 9
3	WATER QUALITY MONITORING DATA	10
4	NOISE LEVEL DATA	11 TO 12

INTRODUCTION

Yekona I & II OC is located in Chandrapur district of Maharashtra state. The project is administered by Majri Area of Western Coalfields Limited. The Wardha River is the main drainage channel for the surrounding area. A few seasonal nullahs drain the rainwater from the Area into Wardha River. The climate of the area is tropical. Transportation roads, agricultural and local activities, vehicular traffic etc also contributes to the pollution.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	PIT OFFICE:	MYOA1
2	PENZUNI VILLAGE :	MYOA2
3	ASHTI VILLAGE:	MYOA3
4	DANDGAON VILLAGE	MYOA4
5	HIWARA MAJARA:	MYOA5
6	YEKONA VILLAGE:	MYOA6
7	WANOJA VILLAGE:	MYOA7
8	NAIDEO VILLAGE	MYOA8

Water Quality Monitoring location:

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

Fugitive dust monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH-20/A48	DATE OF ISSUE	15.04.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	MAJRI AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	YEKONA I& II OC	SAMPLING PLAN : LQR 47	

PIT OFFICE: MYOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
02-03-2020	175	48	33	15
03-03-2020	170	45	30	11
11-03-2020	196	51	35	13
12-03-2020	191	49	28	<10
16-03-2020	220	52	36	14
17-03-2020	178	43	26	<10
23-03-2020	184	46	27	<10
24-03-2020	170	45	24	<10
TLV	300	60	120	120

PENZUNI VILLAGE : MYOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
02-03-2020	86	40	24	12
03-03-2020	84	39	23	<10
11-03-2020	75	35	27	14
12-03-2020	80	37	23	<10
16-03-2020	73	36	24	11
17-03-2020	74	33	22	<10
23-03-2020	78	34	25	<10
24-03-2020	71	30	22	11
TLV	100	60	80	80

ASHTI VILLAGE: MYOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
02-03-2020	75	34	22	<10
03-03-2020	83	42	24	13
11-03-2020	74	33	23	<10
12-03-2020	71	37	23	14
16-03-2020	81	44	27	16
17-03-2020	82	41	26	14
23-03-2020	84	43	25	12
24-03-2020	77	39	23	<10
TLV	100	60	80	80

DANDGAON VILLAGE MYOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM₁₀	PM_{2.5}	NO_x	SO₂
DETECTION LIMIT	5	2	6	10
03-03-2020	80	37	27	13
05-03-2020	71	30	20	<10
13-03-2020	73	33	22	<10
14-03-2020	75	34	23	11
16-03-2020	74	32	21	<10
20-03-2020	71	32	23	<10
23-03-2020	80	38	26	13
24-03-2020	77	35	27	12
TLV	100	60	80	80

HIWARA MAJARA: MYOA5				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM₁₀	PM_{2.5}	NO_x	SO₂
DETECTION LIMIT	5	2	6	10
04-03-2020	75	35	20	<10
05-03-2020	78	37	24	11
13-03-2020	82	43	30	14
14-03-2020	81	42	28	15
18-03-2020	79	40	26	12
19-03-2020	76	38	24	11
23-03-2020	74	34	27	15
24-03-2020	75	35	25	12
TLV	100	60	80	80

YEKONA VILLAGE: MYOA6				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM₁₀	PM_{2.5}	NO_x	SO₂
DETECTION LIMIT	5	2	6	10
04-03-2020	76	35	27	12
05-03-2020	82	42	35	15
13-03-2020	69	32	26	12
14-03-2020	74	35	24	<10
18-03-2020	70	30	25	11
19-03-2020	77	37	31	14
23-03-2020	72	33	27	13
24-03-2020	71	30	26	11
TLV	100	60	80	80

WANOJA VILLAGE: MYOA7				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM₁₀	PM_{2.5}	NO_x	SO₂
DETECTION LIMIT	5	2	6	10
04-03-2020	73	37	26	14
05-03-2020	80	45	32	15
13-03-2020	76	39	27	14
14-03-2020	74	36	24	13
18-03-2020	75	38	25	12
20-03-2020	77	40	28	14
23-03-2020	76	35	23	<10
24-03-2020	72	32	22	<10
TLV	100	60	80	80

NAIDEO VILLAGE MYOA8				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM₁₀	PM_{2.5}	NO_x	SO₂
DETECTION LIMIT	5	2	6	10
04-03-2020	80	42	30	15
05-03-2020	72	33	25	11
13-03-2020	70	34	24	12
14-03-2020	71	34	24	13
18-03-2020	74	36	27	15
20-03-2020	76	41	28	14
23-03-2020	74	37	28	14
24-03-2020	69	36	23	11
TLV	100	60	80	80



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DEEPANSHU SAHU
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Test Report

Air quality monitoring data

PIT OFFICE: MYON1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
02-03-2020	270
03-03-2020	264
11-03-2020	315
12-03-2020	308
16-03-2020	336
17-03-2020	287
23-03-2020	291
24-03-2020	268
TLV	600

PENZUNI VILLAGE : MYON2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
02-03-2020	140
03-03-2020	136
11-03-2020	117
12-03-2020	130
16-03-2020	124
17-03-2020	137
23-03-2020	128
24-03-2020	117
TLV	200

ASHTI VILLAGE: MYON3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
02-03-2020	167
03-03-2020	183
11-03-2020	175
12-03-2020	169
16-03-2020	174
17-03-2020	173
23-03-2020	181
24-03-2020	177
TLV	200

DANDGAON VILLAGE MYON4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
03-03-2020	131
05-03-2020	118
13-03-2020	138
14-03-2020	129
16-03-2020	127
20-03-2020	117
23-03-2020	134
24-03-2020	125
TLV	200

HIWARA MAJARA: MYON5	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
04-03-2020	161
05-03-2020	175
13-03-2020	183
14-03-2020	181
18-03-2020	176
19-03-2020	174
23-03-2020	169
24-03-2020	178
TLV	200

YEKONA VILLAGE: MYON6	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
04-03-2020	142
05-03-2020	158
13-03-2020	137
14-03-2020	145
18-03-2020	139
19-03-2020	151
23-03-2020	143
24-03-2020	136
TLV	200

WANOJA VILLAGE: MYON7	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
04-03-2020	166
05-03-2020	181
13-03-2020	178
14-03-2020	169
18-03-2020	176
20-03-2020	179
23-03-2020	173
24-03-2020	172
TLV	200

NAIDEO VILLAGE MYON8	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
04-03-2020	176
05-03-2020	168
13-03-2020	153
14-03-2020	159
18-03-2020	167
20-03-2020	173
23-03-2020	167
24-03-2020	152
TLV	200



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DEEPANSHU SAHU
MANAGER (ENV.)


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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH-20/W48	DATE OF ISSUE	15.04.2020
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	YEKONA I & II OC	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: MYOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
02-03-2020	8.1	30	24	<2
16-03-2020	8	44	36	<2
TLV	5.5 - 9.0	100	250	10


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 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

NAME OF AREA: MAJRI AREA **YEAR: 2020**
NAME OF PROJECT: YEKONA I& II OC **MONTH: MARCH**

PIT OFFICE: MYON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	53.2	41.5
MARCH 2020	21-03-2020	54.6	41.9
TLV		55	45

PENZUNI VILLAGE : MYON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	11-03-2020	53.6	44
MARCH 2020	21-03-2020	52.1	42.9
TLV		55	45

ASHTI VILLAGE: MYON3			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	11-03-2020	52.6	42.6
MARCH 2020	21-03-2020	53.8	40.8
TLV		55	45

DANDGAON VILLAGE MYON4			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	11-03-2020	51.9	40.9
MARCH 2020	21-03-2020	52.4	42.8
TLV		55	45

HIWARA MAJARA: MYON5			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	11-03-2020	51.6	44
MARCH 2020	21-03-2020	50.9	42.3
TLV		55	45

YEKONA VILLAGE: MYON6			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	11-03-2020	52.7	43.6
MARCH 2020	21-03-2020	51.3	42.5
TLV		55	45

WANOJA VILLAGE: MYON7			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	11-03-2020	53.1	41.8
MARCH 2020	21-03-2020	52.2	41.2
TLV		55	45

NAIDEO VILLAGE MYON8			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	11-03-2020	52.7	41.6
MARCH 2020	21-03-2020	51.6	40.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

ADASA UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



MARCH-2020

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

CMPDI

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

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INDEX

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

INTRODUCTION

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

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH-20/A5	DATE OF ISSUE	15.04.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	ADASA UG	SAMPLING PLAN	LQR 47

PROJECT MANAGER OFFICE: NAUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
05-03-2020	221	48	37	19
TLV	300	60	120	120

AT PATHAKHEDI GP OFFICE : NAUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
05-03-2020	186	39	32	18
TLV	100	60	80	80

COLONY WATER FILTER PLANT : NAUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-03-2020	134	48	36	18
TLV	100	60	80	80

KOTODI VILLAGE : NAUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-03-2020	110	49	39	19
TLV	100	60	80	80

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Test Report

Air quality monitoring data

PROJECT MANAGER OFFICE: NAUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
05-03-2020	265
TLV	600

AT PATHAKHEDI GP OFFICE : NAUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
05-03-2020	230
TLV	200

COLONY WATER FILTER PLANT : NAUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-03-2020	175
TLV	200

KOTODI VILLAGE : NAUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-03-2020	145
TLV	200




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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH-20/W5	DATE OF ISSUE	15.04.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	#REF!		
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
20-03-2020	8.1	16	28	<2
TLV	5.5 - 9.0	100	250	10

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MARCH

FAN HOUSE: NAUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	06-03-2020	69.7	68.9
MARCH 2020	20-03-2020	69.2	68.5
TLV		75	70

MANAGER OFFICE: NAUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	06-03-2020	54.2	53.6
MARCH 2020	20-03-2020	53.8	52.7
TLV		75	70

COLONY (SAONER): NAUN3			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	06-03-2020	42.3	41.4
MARCH 2020	20-03-2020	41.9	41.2
TLV		55	50

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ENVIRONMENTAL MONITORING REPORT

BHANEGAON OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



MARCH 2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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INDEX

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

INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

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

TSET REPORT NO.	RIN/TR/MARCH-20/A9	DATE OF ISSUE	15.04.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	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)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-03-2020	190	46	38	19
19-03-2020	201	42	32	17
TLV	300	60	120	120

BINA SANGAM TEMPLE: NBOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-03-2020	142	44	32	17
18-03-2020	127	37	27	17
TLV	100	60	80	80

BINA VILLAGE: NBOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
05-03-2020	120	48	36	18
18-03-2020	121	34	26	16
TLV	100	60	80	80

DORLI VILLAGE : NBOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-03-2020	130	38	28	16
20-03-2020	117	36	26	16
TLV	100	60	80	80

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Test Report

Air quality monitoring data

NEAR MANGER OFFICE: NBOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-03-2020	245
19-03-2020	232
TLV	600

BINA SANGAM TEMPLE: NBOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-03-2020	185
18-03-2020	165
TLV	200

BINA VILLAGE: NBOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
05-03-2020	165
18-03-2020	156
TLV	200

DORLI VILLAGE : NBOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-03-2020	175
20-03-2020	152
TLV	200



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---	---	--

TSET REPORT NO.	RIN/TR/MARCH-20/W9	DATE OF ISSUE	15.04.2020
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
07-03-2020	8.2	16	28	<2
19-03-2020	8.5	24	32	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MARCH

CONTRACTOR CAMP: NBON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	05-03-2020	56.6	55.8
MARCH 2020	21-03-2020	55.7	54.5
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

GONDEGAON OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



MARCH 2020

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INDEX

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

INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Fugitive Dust Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

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

TSET REPORT NO.	RIN/TR/MARCH-20/A6	DATE OF ISSUE	15.04.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] &PM-2.5		
NAME OF AREA	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)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
04-03-2020	141	36	24	16
16-03-2020	138	37	27	17
TLV	300	60	120	120

GONDEGAON VILLAGE SCHOOL: NGOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
05-03-2020	132	38	28	17
17-03-2020	147	39	29	18
TLV	100	60	80	80

COLONY/GUEST HOUSE: NGOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
05-03-2020	144	51	38	19
16-03-2020	154	47	37	17
TLV	100	60	80	80

GHATRONHA VILLAGE: NGOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
04-03-2020	135	52	36	18
16-03-2020	127	38	28	16
TLV	100	60	80	80

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Test Report

Air quality monitoring data

NEAR SUBSTATION: NGOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
04-03-2020	187
16-03-2020	175
TLV	600

GONDEGAON VILLAGE SCHOOL: NGOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
05-03-2020	175
17-03-2020	185
TLV	200

COLONY/GUEST HOUSE: NGOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
05-03-2020	186
16-03-2020	196
TLV	200

GHATRONHA VILLAGE: NGOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
04-03-2020	165
16-03-2020	153
TLV	200

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---	---	--

TSET REPORT NO.	RIN/TR/MARCH-20/W6	DATE OF ISSUE	15.04.2020
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
05-03-2020	8.5	16	28	<2
17-03-2020	8.3	14	24	<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
05-03-2020	7.9	14	24	<2
17-03-2020	8.5	12	20	<2
TLV	5.5 - 9.0	100	250	10

SURFACE WATER QUALITY DATA

NAME OF LOCATION				DATE OF SAMPLING			Remarks
KANHAN RIVER UPSTREAM				03.03.2020			
KANHAN RIVER DOWNSTREAM				05.03.2020			
Sl. No.	Parameter	Test method	Detection limit	IS 2296 Inland surface water (1982) class C	Analysis result		
					Upstream	Downstream	
1	pH Value	IS-3025/11:1983 Electrometric	0.2	6.5 to 8.5	7.8	8.1	
2	Colour (Hz)	APHA, 22nd Edition Platinum Cobalt	1	300	3	4	
3	TDS -mg/l	IS-3025/17:1984 Gravimetric	25	1500	340	360	
4	Oil & Grease -mg/l	IS-3025/39:1991 Partition Gravimetric	2	0.1	BDL	BDL	
5	Dissolved oxygen-mg/l	IS-3025/38:1989 Winkler Azide	0.1	4	5.3	4.9	
6	B.O.D. (3 days at 27°C)-mg/l	IS 3025 (Part 44) : 1993	2	3	4	4.5	
7	Arsenic -mg/l	APHA, 22nd Edition AAS-GTA	0.005	0.2	BDL	BDL	
8	Lead -mg/l	APHA, 22nd Edition AAS-GTA	0.005	0.1	BDL	BDL	
9	Hexavalent Chromium - mg/l	APHA, 22nd Edition 1,5-Diphenylcarbohydr azide	0.01	0.05	0.026	0.031	
10	Copper -mg/l	IS-3025/42:1992 AAS-Flame	0.03	1.5	BDL	BDL	
11	Zinc -mg/l	IS-3025/49:1994 AAS-Flame	0.01	15	BDL	BDL	
12	Selenium -mg/l	APHA, 22nd Edition AAS-VGA	0.005	0.05	BDL	BDL	
13	Cadmium - mg/l	APHA, 22nd Edition AAS-GTA	0.005	0.01	BDL	BDL	
14	Fluoride - mg/l	APHA, 22nd Edition SPADNS	0.02	1.5	1.65	1.81	
15	Iron -mg/l	IS-3025/53:2003 AAS-Flame	0.06	50	BDL	BDL	

16	Nitrate Nitrogen - mg/l	APHA, 22nd Edition UV-Spectrophotometric	0.5	50	2.3	2.6	
17	Sulphate - mg/l	APHA, 22nd Edition Turbidity	2	400	56	72	
18	Chlorides - mg/l	IS-3025/32:1988 AAS-Flame	2	600	45	53	

BDL: BELOW DETECTION LIMIT



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NOISE LEVEL DATA

NAME OF AREA: NAGPUR AREA **YEAR: 2020**
NAME OF PROJECT: GONDEGAON OC **MONTH: MARCH**

CHP: NGON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	05-03-2020	67.4	66.7
MARCH 2020	21-03-2020	68.2	67.4
TLV		75	70

COLONY: NGON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	05-03-2020	41.4	40.5
MARCH 2020	21-03-2020	41.8	40.7
TLV		55	45

GHATROHNA VILLAGE NGON3			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	05-03-2020	43.2	42.4
MARCH 2020	21-03-2020	42.5	41.7
TLV		55	45

JUNI KAMPTEE VILLAGE: NGON4			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	05-03-2020	42.6	41.7
MARCH 2020	21-03-2020	43.2	42.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

INDER UG TO OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



MARCH 2020

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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
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TSET REPORT NO.	RIN/TR/MARCH-20/A8	DATE OF ISSUE	15.04.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	INDER UG TO OC	SAMPLING PLAN : LQR 47	

NEAR PIT NO.6 / MANAGER OFFICE: NIOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-03-2020	248	51	36	17
17-03-2020	257	53	38	19
TLV	300	60	120	120

CMPDI TEKADI STORE: NIOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-03-2020	142	48	32	18
18-03-2020	158	47	37	18
TLV	300	60	120	120

COLONY WATER TREATMENT PLANT: NIOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
04-03-2020	175	39	28	17
18-03-2020	165	36	28	16
TLV	100	60	80	80

G.P. OFFICE KANDRI VILLAGE: NIOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-03-2020	215	48	36	19
17-03-2020	205	42	32	18
TLV	100	60	80	80

J. Shan

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Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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TEST REPORT

Air quality monitoring data

NEAR PIT NO.6 / MANAGER OFFICE:NIOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-03-2020	285
17-03-2020	295
TLV	600

CMPDI TEKADI STORE:NIOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-03-2020	185
18-03-2020	195
TLV	600

COLONY WATER TREATMENT PLANT:NIOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
04-03-2020	210
18-03-2020	201
TLV	200

G.P. OFFICE KANDRI VILLAGE:NIOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-03-2020	265
17-03-2020	245
TLV	200

J. Shrivastava

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH-20/W8	DATE OF ISSUE	15.04.2020
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
05-03-2020	8.5	24	32	<2
17-03-2020	8.3	18	28	<2
TLV	5.5 - 9.0	100	250	10

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MARCH

R.C. OFFICE: NION1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	05-03-2020	55.3	54.2
MARCH 2020	21-03-2020	55.8	54.5
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

KAMPTEE DEEP OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



MARCH 2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

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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
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TSET REPORT NO.	RIN/TR/MARCH-20/A7	DATE OF ISSUE	15.04.2020
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		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD :	LSOP 4
NAME OF PROJECT	KAMPTEE DEEP OC	SAMPLING PLAN :	LQR 47

SUBSTATION KAMPTEE : NKCA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-03-2020	285	52	39	18
17-03-2020	244	51	38	19
TLV	300	60	120	120

JUNI KAMPTEE VILLAGE: NKCA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
04-03-2020	132	38	26	16
16-03-2020	141	37	27	17
TLV	100	60	80	80

COLONY WATER TREATMENT PALNT: NKCA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
04-03-2020	175	39	28	17
18-03-2020	165	36	28	16
TLV	100	60	80	80

G.P. OFFICE KANDRI VILLAGE: NKCA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-03-2020	215	48	36	19
17-03-2020	205	42	32	18
TLV	100	60	80	80

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TEST REPORT
Air quality monitoring data

SUBSTATION KAMPTEE :NKCA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-03-2020	322
17-03-2020	297
TLV	600

JUNI KAMPTEE VILLAGE:NKCA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
04-03-2020	175
16-03-2020	165
TLV	200

COLONY WATER TREATMENT PALNT:NKCA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
04-03-2020	210
18-03-2020	201
TLV	200

G.P. OFFICE KANDRI VILLAGE:NKCA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-03-2020	265
17-03-2020	245
TLV	200

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TSET REPORT NO.	RIN/TR/MARCH-20/W7	DATE OF ISSUE	15.04.2020
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
05-03-2020	8.3	28	36	<2
17-03-2020	8.4	16	24	<2
TLV	5.5 - 9.0	100	250	10

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NOISE LEVEL DATA

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

CHP: NKC1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	05-03-2020	66.4	65.6
MARCH 2020	21-03-2020	65.9	64.8
TLV		75	70

COLONY: NKC2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	05-03-2020	40.1	41.4
MARCH 2020	21-03-2020	41.2	40.6
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

PATANSAONGI UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



MARCH 2020

Environment Laboratory
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INDEX

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

INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	COLLIERY MANGER OFFICE:	NPTUA1
2	SADBHAVAN NAGAR (FILTER PLANT):	NPTUA2
3	NEAR LCH QR.:	NPTUA3
4	SAVARMENDHA VILLAGE.:	NPTUA4

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	15.04.2020	
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE	
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19			
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] &PM-2.5			
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD :	LSOP 4	
NAME OF PROJECT	PATANSAONGI UG	SAMPLING PLAN :	LQR 47	

COLLIERY MANGER OFFICE: NPTUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
04-03-2020	328	50	39	19
TLV	300	60	120	120

SADBHAVAN NAGAR (FILTER PLANT): NPTUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
05-03-2020	137	36	28	16
TLV	100	60	80	80

NEAR LCH QR.: NPTUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
04-03-2020	180	44	32	18
TLV	100	60	80	80

SAVARMENDHA VILLAGE.: NPTUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
04-03-2020	94	42	31	13
TLV	100	60	80	80

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Test Report
Air quality monitoring data

COLLIERY MANGER OFFICE:NTPUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
04-03-2020	285
TLV	600

SADBHAVAN NAGAR (FILTER PLANT):NTPUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
05-03-2020	175
TLV	200


NEAR LCH QR.:NTPUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
04-03-2020	220
TLV	200

SAVARMENDHA VILLAGE.:NTPUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
04-03-2020	186
TLV	200

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Environment Laboratory CMPDI RI-IV, NAGPUR		Test Report Effluent water quality monitoring data		 TC-7102	
TSET REPORT NO.	RIN/TR/MARCH-20/W3	DATE OF ISSUE	15.04.2020		
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
05-03-2020	7.5	18	32	<2
20-03-2020	8.2	14	24	<2
TLV	5.5 - 9.0	100	250	10

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NOISE LEVEL DATA

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

FAN HOUSE: NPTUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	06-03-2020	67.6	66.7
MARCH 2020	20-03-2020	67.6	66.9
TLV		75	70

COLONY: NPTUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	06-03-2020	41.5	40.9
MARCH 2020	20-03-2020	41.8	40.2
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

PIPLA UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



MARCH 2020

Environment Laboratory

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INDEX

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

INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Noise Level Monitoring location :


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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH-20/A2	DATE OF ISSUE	15.04.2020
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		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD :	LSOP 4
NAME OF PROJECT	PIPLA UG	SAMPLING PLAN :	LQR 47

NEAR MAGZINE / MANAGER OFFICE: NPUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
05-03-2020	287	54	32	18
TLV	300	60	120	120

IN ZONE- 4: NPUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-03-2020	186	48	36	18
TLV	300	60	120	120

FILTER PLANT: NPUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-03-2020	142	39	28	17
TLV	100	60	80	80

SHIV MANDIR: NPUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
04-03-2020	154	52	39	19
TLV	100	60	80	80

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Test Report

Air quality monitoring data

NEAR MAGZINE / MANAGER OFFICE: NPUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
05-03-2020	335
TLV	600

IN ZONE- 4: NPUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-03-2020	225
TLV	600

FILTER PLANT: NPUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-03-2020	172
TLV	200

SHIV MANDIR: NPUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
04-03-2020	192
TLV	200



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)

- | | |
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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MARCH

FAN HOUSE: NPUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	06-03-2020	67.3	67.2
MARCH 2020	20-03-2020	68.2	67.5
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

SAONER UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



MARCH-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
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TSET REPORT NO.	RIN/TR/MARCH-20/A4	DATE OF ISSUE	15.04.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] &PM-2.5		
NAME OF AREA	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 $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-03-2020	232	38	26	17
TLV	300	60	120	120

C.M. OFFICE- SAONER- II UG : NSNUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-03-2020	215	53	38	19
TLV	300	60	120	120

COLONY WATER FILTER PLANT: NSNUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-03-2020	134	48	36	18
TLV	100	60	80	80

KOTODI VILLAGE : NSNUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-03-2020	110	49	39	19
TLV	100	60	80	80

J. Shrivastava
SCIENTIFIC ASSISTANT

Deepanshu Sahu
DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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Test Report

Air quality monitoring data

C.M. OFFICE - SAONER - I UG : NSNUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-03-2020	277
TLV	600

C.M. OFFICE- SAONER- II UG : NSNUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-03-2020	265
TLV	600

COLONY WATER FILTER PLANT: NSNUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-03-2020	175
TLV	200

KOTODI VILLAGE : NSNUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-03-2020	145
TLV	200

J. Shan

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
MANAGER (ENV.)

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH-20/W4	DATE OF ISSUE	15.04.2020
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
06-03-2020	7.2	16	24	<2
19-03-2020	8.5	24	32	<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
06-03-2020	7.6	14	28	<2
19-03-2020	8.3	26	36	<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	10	4	2
06-03-2020	8.2	24	32	<2
19-03-2020	7.9	22	32	<2
TLV	5.5 - 9.0	100	250	10

J. Shan
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Deepanshu Sahu
DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MARCH

FAN HOUSE I UG: NSNUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	06-03-2020	69.6	68.7
MARCH 2020	20-03-2020	68.7	67.5
TLV		75	70

FAN HOUSE II UG: NSNUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	06-03-2020	68.3	68.6
MARCH 2020	20-03-2020	67.9	67.1
TLV		75	70

FAN HOUSE III UG: NSNUN3			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	06-03-2020	69.4	68.8
MARCH 2020	20-03-2020	68.5	67.8
TLV		75	70

COLONY: NSNUN4			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	06-03-2020	42.3	41.4
MARCH 2020	20-03-2020	41.9	41.2
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

SILEWARA UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



MARCH 2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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INDEX

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

INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	WATER FILTER FLANT:	NSUA1
2	V.T.C. SILEWARA:	NSUA2
3	MANDIR NEAR KANHAN RIVER:	NSUA3
4	CHANKAPUR PUMP HOUSE/ COLONY:	NSUA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	NSUW1

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE:	NSUN1
2	COLONY:	NSUN2

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH-20/A1	DATE OF ISSUE	15.04.2020
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		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	SILEWARA UG	SAMPLING PLAN : LQR 47	

WATER FILTER FLANT: NSUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-03-2020	195	38	28	16
19-03-2020	185	37	27	17
TLV	300	60	120	120

V.T.C. SILEWARA: NSUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-03-2020	126	52	32	19
TLV	300	60	120	120

MANDIR NEAR KANHAN RIVER: NSUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-03-2020	132	42	29	17
TLV	100	60	80	80

CHANKAPUR PUMP HOUSE/ COLONY: NSUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-03-2020	176	53	34	18
TLV	100	60	80	80

J. Shan

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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Test Report

Air quality monitoring data

WATER FILTER FLANT: NSUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-03-2020	235
19-03-2020	220
TLV	600

V.T.C. SILEWARA: NSUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-03-2020	265
TLV	600

MANDIR NEAR KANHAN RIVER: NSUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-03-2020	185
TLV	200

CHANKAPUR PUMP HOUSE/ COLONY: NSUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-03-2020	210
TLV	200



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)


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TSET REPORT NO.	RIN/TR/MARCH-20/W1	DATE OF ISSUE	15.04.2020
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
12-03-2020	8.1	26	36	<2
19-03-2020	7.9	18	28	<2
TLV	5.5 - 9.0	100	250	10


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MARCH

FAN HOUSE: NSUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	06-03-2020	69.2	68.6
MARCH 2020	20-03-2020	68.5	67.7
TLV		75	70

COLONY: NSUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	06-03-2020	42.3	41.4
MARCH 2020	20-03-2020	41.4	40.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

SINGORI OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



MARCH-20

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

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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
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TSET REPORT NO.	RIN/TR/MARCH-20/A10	DATE OF ISSUE	15.04.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD :	LSOP 5
NAME OF PROJECT	SINGORI OC	SAMPLING PLAN :	LQR 47

CONTRACTOR CAMP: NSOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-03-2020	210	52	39	19
19-03-2020	234	49	39	18
TLV	300	60	120	120

SOHOLI VILLAGE : NSOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-03-2020	130	38	26	16
19-03-2020	135	37	27	17
TLV	100	60	80	80

HINGNA VILLAGE: NSOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-03-2020	145	42	28	17
19-03-2020	119	39	29	18
TLV	100	60	80	80

DORLI VILLAGE: NSOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-03-2020	130	38	28	16
20-03-2020	117	36	26	16
TLV	100	60	80	80

J. Shan

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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Test Report

Air quality monitoring data

CONTRACTOR CAMP: NSOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-03-2020	265
19-03-2020	272
TLV	600

SOHOLI VILLAGE : NSOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-03-2020	175
19-03-2020	167
TLV	200

HINGNA VILLAGE: NSOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-03-2020	182
19-03-2020	156
TLV	200

DORLI VILLAGE: NSOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-03-2020	175
20-03-2020	152
TLV	200



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)


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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH-20/W10	DATE OF ISSUE	15.04.2020
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
06-03-2020	7.5	14	24	<2
19-03-2020	7.9	28	36	<2
TLV	5.5 - 9.0	100	250	10


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

NAME OF AREA: NAGPUR AREA **YEAR: 2020**
NAME OF PROJECT: SINGORI OC **MONTH: MARCH**

CONTRACTOR CAMP: NSON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	05-03-2020	55.4	54.6
MARCH 2020	21-03-2020	54.9	53.7
TLV		75	70

SOHOLI VILLAGE : NSON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	05-03-2020	42.4	41.7
MARCH 2020	21-03-2020	42.8	41.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

DINESH OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



MARCH 2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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
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TSET REPORT NO.	RIN/TR/MARCH-20/A14	DATE OF ISSUE	15.04.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14.1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	UMRER AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	DINESH OC	SAMPLING PLAN : LQR 47	

MANAGER OFFICE: UM30A1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-03-2020	262	44	37	17
TLV	300	60	120	120

NEAR RLY. WEIGHT BRIDGE: UM30A2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-03-2020	203	45	39	19
TLV	300	60	120	120

WELSAKRA VILLAGE : UM30A3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-03-2020	123	50	31	15
TLV	100	60	80	80

PIPARDOL VILLAGE: UM30A4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-03-2020	119	50	31	15
TLV	100	60	80	80

R. Annapurna

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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Test Report

Air quality monitoring data

MANAGER OFFICE: UM30A1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-03-2020	483
TLV	600

NEAR RLY. WEIGHT BRIDGE: UM30A2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-03-2020	371
TLV	600

WELSAKRA VILLAGE : UM30A3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-03-2020	216
TLV	200

PIPARDOL VILLAGE: UM30A4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-03-2020	184
TLV	200

R. Annapurna

SCIENTIFIC ASSISTANT

DEEPANSHU SAHU
MANAGER (ENV.)

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

TSET REPORT NO.	RIN/TR/MARCH-20/W14	DATE OF ISSUE	15.04.2020
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
07-03-2020	7.3	32	44	<2
21-03-2020	7	18	28	<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
07-03-2020	7.5	32	40	<2
21-03-2020	7.4	24	36	<2
TLV	5.5 - 9.0	100	250	10

R. Annapurna

SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MARCH

NEAR PIT OFFICE: UM3ON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	54.6	53.7
MARCH 2020	19-03-2020	54.5	53.2
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

GOKUL OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



MARCH 2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 6
3	WATER QUALITY MONITORING DATA	7
4	NOISE LEVEL DATA	8

INTRODUCTION

The Gokul OC project is located in Nagpur district of Maharashtra State and is administered by the Umrer area of Western Coalfields Limited. The drainage of the area is controlled by Amb river which flows in the east of the area. The climate of the area is generally dry and hot. As there is no other major industry nearby the project area, only road transport is the other source, which may contribute to the air pollution.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CONTRACTOR CAMP:	UGOA1
2	BESUR VILLAGE :	UGOA2
3	NAND VILLAGE:	UGOA3
4	POLGAON VILLAGE :	UGOA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	UGOW1
2	ETP (WORKSHOP):	UGOW2

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CONTRACTOR CAMP:	UGON1

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

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

TSET REPORT NO.	RIN/TR/MARCH-20/A14	DATE OF ISSUE	15.04.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	UMRER AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	GOKUL OC	SAMPLING PLAN	LQR 47

CONTRACTOR CAMP: UGOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
05-03-2020	181	52	39	19
21-03-2020	121	33	29	19
TLV	300	60	120	120

BESUR VILLAGE : UGOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
05-03-2020	129	47	41	19
06-03-2020	121	56	39	17
07-03-2020	104	40	41	18
08-03-2020	93	55	37	17
18-03-2020	131	46	26	16
21-03-2020	123	50	29	14
TLV	100	60	80	80

NAND VILLAGE: UGOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
05-03-2020	107	50	39	17
06-03-2020	109	55	41	18
07-03-2020	123	55	39	18
08-03-2020	111	50	41	17
18-03-2020	135	48	32	17
21-03-2020	127	50	29	16
TLV	100	60	80	80

POLGAON VILLAGE : UGOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
05-03-2020	124	55	37	17
06-03-2020	115	50	37	17
07-03-2020	99	47	38	19
08-03-2020	126	50	39	19
17-03-2020	117	42	28	15
18-03-2020	124	44	26	14
21-03-2020	118	50	29	16
TLV	100	60	80	80

R. Annapurna

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Deepanshu Sahu

DEEPANSHU SAHU
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Test Report**Air quality monitoring data**

CONTRACTOR CAMP: UGOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
05-03-2020	353
06-03-2020	195
TLV	600

BESUR VILLAGE : UGOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
05-03-2020	218
06-03-2020	194
07-03-2020	192
08-03-2020	214
18-03-2020	197
21-03-2020	195
TLV	200

NAND VILLAGE: UGOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
05-03-2020	209
06-03-2020	206
07-03-2020	175
08-03-2020	171
18-03-2020	190
21-03-2020	199
TLV	200

POLGAON VILLAGE : UGOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
05-03-2020	216
06-03-2020	215
07-03-2020	175
08-03-2020	183
17-03-2020	225
18-03-2020	247
21-03-2020	237
TLV	200

R. Annapurna

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Deepanshu Sahu

DEEPANSHU SAHU
MANAGER (ENV.)

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH-20/A14	DATE OF ISSUE	15.04.2020
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
06-03-2020	7.6	20	32	<2
21-03-2020	7	20	32	<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
06-03-2020	7.6	20	32	<2
21-03-2020	7.3	36	48	<2
TLV	5.5 - 9.0	100	250	10

R. Annapurna

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Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MARCH

CONTRACTOR CAMP: UGON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	55.3	54.6
MARCH 2020	19-03-2020	56.2	55.4
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

MAKARDHOKRA- II OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



MARCH -2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

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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
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TSET REPORT NO.	RIN/TR/MARCH-20/A12	DATE OF ISSUE	15.04.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] &PM-2.5		
NAME OF AREA	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)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-03-2020	260	55	39	18
TLV	300	60	120	120

SAM OFFICE: UMOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
09-03-2020	207	47	39	19
TLV	300	60	120	120

KANWA VILLAGE : UMOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-03-2020	107	38	37	17
TLV	100	60	80	80

NEAR PUMP HOUSE COLONY: UMOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
09-03-2020	87	54	39	19
TLV	100	60	80	80

R. Annapurna

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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Test Report

Air quality monitoring data

NEAR MANAGER OFFICE: UMOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-03-2020	405
TLV	600

SAM OFFICE: UMOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
09-03-2020	375
TLV	600

KANWA VILLAGE : UMOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-03-2020	202
TLV	200

NEAR PUMP HOUSE COLONY: UMOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
09-03-2020	194
TLV	200


R. Annapurna

SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)

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---	---	--

TSET REPORT NO.	RIN/TR/MARCH-20/W12	DATE OF ISSUE	15.04.2020
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
07-03-2020	7.1	20	32	<2
21-03-2020	7.2	22	36	<2
TLV	5.5 - 9.0	100	250	10

R. Annapurna

SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

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

NEAR PIT OFFICE: UMON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	56.2	55.7
MARCH 2020	19-03-2020	55.5	54.7
TLV		75	70

COLONY (UMRER OC): UMON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	40.6	40.7
MARCH 2020	19-03-2020	41.2	40.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

MAKARDHOKHRA- I OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



MARCH 2020

Environment Laboratory

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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
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TSET REPORT NO.	RIN/TR/MARCH-20/A13	DATE OF ISSUE	15.04.2020
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		
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)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
09-03-2020	204	47	39	19
TLV	300	60	120	120

KALMANA VILLAGE: UM10A2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-03-2020	117	50	39	23
TLV	100	60	80	80

KHURSAPAR VILLAGE : UM10A3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-03-2020	93	55	39	18
TLV	100	60	80	80

SIRPUR VILLAGE : UM10A4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-03-2020	117	40	39	19
TLV	100	60	80	80

R. Annapurna

SCIENTIFIC ASSISTANT

Deepanshu Sahu

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Test Report

Air quality monitoring data

PIT OFFICE: UM10A1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
09-03-2020	336
TLV	600

KALMANA VILLAGE: UM10A2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-03-2020	183
TLV	200

KHURSAPAR VILLAGE : UM10A3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-03-2020	177
TLV	200

SIRPUR VILLAGE : UM10A4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-03-2020	195
TLV	200

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH-20/W13	DATE OF ISSUE	15.04.2020
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
07-03-2020	7.3	18	28	<2
21-03-2020	7.3	20	32	<2
TLV	5.5 - 9.0	100	250	10

R. Annapurna
SCIENTIFIC ASSISTANT


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NOISE LEVEL DATA

NAME OF AREA: UMRER AREA YEAR: 2020
NAME OF PROJECT: MAKARDHOKHRA- I OC MONTH: MARCH

NEAR PIT OFFICE: UM10N1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	55.5	54.6
MARCH 2020	19-03-2020	54.8	54.1
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

MURPAR UG

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



MARCH 2020



Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

**REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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/MARCH-20/A15	DATE OF ISSUE	15.4.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	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)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-03-2020	235	40	33	16
20-03-2020	234	50	39	19
TLV	300	60	120	120

NEAR MAGAZINE BUILDING: UMUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-03-2020	209	50	31	15
20-03-2020	240	57	38	18
TLV	300	60	120	120

COLONY : UMUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-03-2020	116	44	39	18
20-03-2020	138	45	39	18
TLV	100	60	80	80

MORPAR VILLAGE : UMUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-03-2020	112	50	33	16
20-03-2020	133	54	39	19
TLV	100	60	80	80

R. Annapurna

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
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Test Report

Air quality monitoring data

NEAR PIT OFFICE: UMUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-03-2020	453
20-03-2020	354
TLV	600

NEAR MAGAZINE BUILDING: UMUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-03-2020	432
20-03-2020	351
TLV	600

COLONY : UMUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-03-2020	188
20-03-2020	204
TLV	200

MORPAR VILLAGE : UMUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-03-2020	201
20-03-2020	231
TLV	200

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---	---	--

TSET REPORT NO.	RIN/TR/MARCH-20/W15	DATE OF ISSUE	15.4.2020
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
08-03-2020	7.3	26	36	<2
20-03-2020	7	20	32	<2
TLV	5.5 - 9.0	100	250	10

R. Annapurna
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Deepanshu Sahu
DEEPANSHU SAHU
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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MARCH

FAN HOUSE: UMUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	07-03-2020	69.4	68.6
MARCH 2020	19-03-2020	65.6	54.4
TLV		75	70

COLONY: UMUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	07-03-2020	42.5	41.7
MARCH 2020	19-03-2020	43.3	42.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

UMRER OC

UMRER AREA

WESTERN COALFIELDS LTD.

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MARCH 2020

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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

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/MARCH-20/A11	DATE OF ISSUE	15.04.20
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		
NAME OF AREA	UMRER AREA	SAMPLING METHOD :	LSOP 4
NAME OF PROJECT	UMRER OC	SAMPLING PLAN :	LQR 47

UMRER MANAGER OFFICE: UUOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
09-03-2020	257	55	38	18
TLV	300	60	120	120

NEAR WORKSHOP: UUOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-03-2020	239	42	38	18
TLV	300	60	120	120

KANWA VILLAGE : UUOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-03-2020	107	38	37	17
TLV	100	60	80	80

NEAR PUMP HOUSE COLONY: UUOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
09-03-2020	87	55	39	19
TLV	100	60	80	80

R. Annapurna

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Deepanshu Sahu

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Test Report

Air quality monitoring data

UMRER MANAGER OFFICE: UUOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
09-03-2020	425
TLV	600

NEAR WORKSHOP: UUOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-03-2020	400
TLV	600

KANWA VILLAGE : UUOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-03-2020	202
TLV	200

NEAR PUMP HOUSE COLONY: UUOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
09-03-2020	194
TLV	200

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---	---	--

TSET REPORT NO.	RIN/TR/MARCH-20/W11	DATE OF ISSUE	15.04.20
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	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
07-03-2020	7	18	28	<2
20-03-2020	7.1	24	36	<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
07-03-2020	7.1	24	36	<2
20-03-2020	7.2	28	40	<2
TLV	5.5 - 9.0	100	250	10

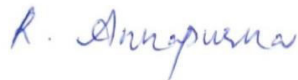
STP DISCHARGE : UUOW3		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS (in mg/l)	BOD (in mg/l)
DETECTION LIMIT	10	2
07-03-2020	46	11.4
20-03-2020	42	10.8
TLV	100	30

SURFACE WATER QUALITY DATA

		NAME OF LOCATION		DATE OF SAMPLING			
		AMB RIVER UPSTREAM		17.03.2020			
		AMB RIVER DOWNSTREAM		17.03.2020			
Sl. No.	Parameter	Test method	Detection limit	IS 2296 Inland surface water (1982) class C	Analysis result		Remarks
					Upstream	Downstream	
1	pH Value	IS-3025/11:1983 Electrometric	0.2	6.5 to 8.5	7.3	7.5	
2	Colour (Hz)	APHA, 22nd Edition Platinum Cobalt	1	300	1	2	
3	TDS -mg/l	IS-3025/17:1984 Gravimetric	25	1500	280	290	
4	Oil & Grease -mg/l	IS-3025/39:1991 Partition Gravimetric	2	0.1	BDL	BDL	
5	Dissolved oxygen-mg/l	Is-3025/38.1989 Winkler Azide	0.1	4	4.7	4.4	
6	B.O.D. (3 days at 27 ⁰ C)-mg/l	IS 3025 (Part 44) : 1993	2	3	1.8	2.4	
7	Arsenic -mg/l	APHA, 22nd Edition AAS-GTA	0.005	0.2	BDL	BDL	
8	Lead -mg/l	APHA, 22nd Edition AAS-GTA	0.005	0.1	BDL	BDL	
9	Hexavalent Chromium - mg/l	APHA, 22nd Edition 1,5- Diphenylcarb ohydrazide	0.01	0.05	0.015	0.017	

10	Copper -mg/l	IS-3025/42:1992 AAS-Flame	0.03	1.5	BDL	BDL	
11	Zinc -mg/l	IS-3025/49:1994 AAS-Flame	0.01	15	BDL	BDL	
12	Selenium -mg/l	APHA, 22nd Edition AAS-VGA	0.005	0.05	BDL	BDL	
13	Cadmium -mg/l	APHA, 22nd Edition AAS-GTA	0.005	0.01	BDL	BDL	
14	Fluoride - mg/l	APHA, 22nd Edition SPADNS	0.02	1.5	0.56	0.76	
15	Iron -mg/l	IS-3025/53:2003 AAS-Flame	0.06	50	BDL	BDL	
16	Nitrate Nitrogen -mg/l	APHA, 22nd Edition UV-Spectrophotometric	0.5	50	7.02	9.14	
17	Sulphate -mg/l	APHA, 22nd Edition Turbidity	2	400	27.87	30.5	
18	Chlorides -mg/l	IS-3025/32:1988 AAS-Flame	2	600	30	32	

BDL: BELOW DETECTION LIMIT



SCIENTIFIC ASSISTANT


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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MARCH

CHP: UUON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	67.7	66.4
MARCH 2020	19-03-2020	66.5	65.6
TLV		75	70

COLONY: UUON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	40.6	40.7
MARCH 2020	19-03-2020	41.2	40.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

GHUGUS OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



MARCH 2020

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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
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TSET REPORT NO.	RIN/TR/MARCH-20/A38	DATE OF ISSUE	15.04.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	WANI AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	GHUGUS OC	SAMPLING PLAN : LQR 47	

ACC PATCH NEAR ACC COLONY: WGOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-03-2020	166	58	32	15
TLV	300	60	120	120

SAM OFFICE: WGOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-03-2020	244	56	34	11
TLV	300	60	120	120

RAM NAGAR COLONY : WGOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-03-2020	102	40	20	10
TLV	100	60	80	80

GHUGUS VILLAGE (GP OFFICE): WGOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-03-2020	100	42	30	BDL
TLV	100	60	80	80



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FUGITIVE DUST MONITORING DATA

CHP: WGOF1		
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)	
	PM10	PM _{2.5}
DETECTION LIMIT	5	2
15-03-2020	256	112

Name of location			Location Code		Date of sampling
CHP:			WGOF-1		27.07.19
Sl. No.	Parameter	Method of analysis	Detecti on limit	Observed value	National Ambient Air Quality Standard NAAQS, 2009
1	Arsenic, µg/m ³	IS 3025(Part 37):1988 AAS- VGA Method	0.0007 µg/m ³	BDL	0.006 µg/m ³ (Annual average)
2	Lead, µg/m ³	APHA, 22 nd Edition, 3113 B AAS- GTA Method	7.0 µg/m ³	BDL	1.0 µg/m ³ (24 Hourly average)
3	Nickle, µg/m ³	IS 3025 (Part 54): 2003, AAS- Flame Method	0.007 µg/m ³	BDL	0.02 µg/m ³ (Annual average)
4	Total Chromium, µg/m ³	IS 3025 (Part 52): 2003, AAS- Flame Method	0.0045 µg/m ³	BDL	**
5	Cadmium, µg/m ³	APHA, 22 nd Edition, 3111 B AAS- GTA Method	0.0015 µg/m ³	BDL	**

BDL: Below detection limit



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FUGITIVE DUST MONITORING DATA

CHP: WGON1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-03-2020	384



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Test Report

Air quality monitoring data

ACC PATCH NEAR ACC COLONY: WGOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-03-2020	208
TLV	600

SAM OFFICE: WGOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-03-2020	352
TLV	600

RAM NAGAR COLONY : WGOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-03-2020	190
TLV	200

GHUGUS VILLAGE (GP OFFICE): WGOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-03-2020	198
TLV	200



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NOISE LEVEL DATA

NAME OF AREA: WANI AREA YEAR: 2020
NAME OF PROJECT: GHUGUS OC MONTH: MARCH

CHP: WGON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	14-03-2020	64.9	63.5
MARCH 2020	19-03-2020	65.2	64.7
TLV		75	70

COLONY: WGON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	14-03-2020	44.5	43.7
MARCH 2020	19-03-2020	44.8	43.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

KOLGAON OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



MARCH 2020

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

CMPDI

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

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INDEX

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

INTRODUCTION

Kolgaon Opencast Project is located in Wani Tahsil of Yeotmal district of Maharashtra State. It is administered by Wani Area of Western Coalfields Limited. Drainage of the area is controlled by Wardha river in North and Penganga river in South. The climate of this area is tropical. Besides other coal mines, ACC Cement Factory and Sindhale Limestone mines are the major industries nearby the project area. The above mentioned industries and the busy road traffic are also expected to contribute in increasing the pollution.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER OFFICE:	WKOA1
2	SAM OFFICE:	WKOA2
3	KOLGAON VILLAGE :	WKOA3
4	AILSHNAGAR TOWNSHIP - FILTER PLANT	WKOA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	WKOW1

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER OFFICE:	WKON1
2	COLONY (MUGOLI):	WKON2

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH-20/A39	DATE OF ISSUE	15.04.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	WANI AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	KOLGAON OC	SAMPLING PLAN	LQR 47


MANAGER OFFICE: WKOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-03-2020	156	44	26	11
16-03-2020	174	40	32	14
TLV	300	60	120	120

SAM OFFICE: WKOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-03-2020	226	56	27	15
16-03-2020	212	52	20	11
TLV	300	60	120	120

KOLGAON VILLAGE : WKOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-03-2020	98	42	24	10
16-03-2020	90	48	26	11
TLV	100	60	80	80

KAILSHNAGAR TOWNSHIP - FILTER PLANT: WKOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-03-2020	102	48	24	BDL
TLV	100	60	80	80


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Test Report

Air quality monitoring data

MANAGER OFFICE: WKOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-03-2020	234
16-03-2020	252
TLV	600

SAM OFFICE: WKOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-03-2020	322
16-03-2020	308
TLV	600

KOLGAON VILLAGE : WKOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-03-2020	156
16-03-2020	170
TLV	200

KAILSHNAGAR TOWNSHIP - FILTER PLANT: WKOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-03-2020	176
TLV	200




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TSET REPORT NO.	RIN/TR/MARCH-20/W39	DATE OF ISSUE	15.04.2020
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
15-03-2020	7.1	38	32	BDL
17-03-2020	7.3	30	24	BDL
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MARCH

MANAGER OFFICE: WKON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	14-03-2020	5.8	54.6
MARCH 2020	19-03-2020	54.6	52.9
TLV		75	70

COLONY (MUGOLI): WKON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	14-03-2020	42.8	41.9
MARCH 2020	19-03-2020	42.2	41.6
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

MUGOLI OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



MARCH 2020

Environment Laboratory

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INDEX

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

INTRODUCTION

Mugoli Opencast Project is located in Wani Tahsil of Yeotmal district of Maharashtra State. It is administered by Wani Area of Western Coalfields Limited. Drainage of the area is controlled by Wardha river in North and Penganga river in South. The climate of this area is tropical. The above mentioned industries and the busy road traffic are also expected to contribute in increasing the pollution load of the area.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	SUB - STATION:	WMOA1
2	SAM OFFICE:	WMOA2
3	KAILSHNAGAR TOWNSHIP FILTER PLANT :	WMOA3
4	TUBEWELL NEAR SAKHARA VILLAGE:	WMOA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	SECURITY CHECK POST OFFICE:	WMOF1

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	WMOW1
2	ETP DISCHARFE	WMOW2

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP:	WMON1
2	COLONY:	WMON2

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH-20/A36	DATE OF ISSUE	15.04.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	WANI AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	MUGOLI OC	SAMPLING PLAN : LQR 47	


SUB - STATION: WMOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-03-2020	240	60	28	BDL
TLV	300	60	120	120

SAM OFFICE: WMOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-03-2020	226	56	27	15
16-03-2020	212	52	20	11
TLV	300	60	120	120

KAILSHNAGAR TOWNSHIP FILTER PLANT : WMOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-03-2020	102	48	24	BDL
TLV	100	60	80	80

TUBEWELL NEAR SAKHARA VILLAGE: WMOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-03-2020	98	42	20	BDL
16-03-2020	86	44	26	10
TLV	100	60	80	80


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FUGITIVE DUST MONITORING DATA

SECURITY CHECK POST OFFICE: WMOF1		
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)	
	PM10	PM _{2.5}
DETECTION LIMIT	5	2
08-03-2020	231	87

Name of location			Location Code		Date of sampling
FILTER PLANT DOC/POC COLONY:			WMOF-1		30.07.19
Sl. No.	Parameter	Method of analysis	Detection limit	Observed value	National Ambient Air Quality Standard NAAQS, 2009
1	Arsenic, $\mu\text{g}/\text{m}^3$	IS 3025(Part 37):1988 AAS- VGA Method	0.0007 $\mu\text{g}/\text{m}^3$	BDL	0.006 $\mu\text{g}/\text{m}^3$ (Annual average)
2	Lead, $\mu\text{g}/\text{m}^3$	APHA,22 nd Edition,3113 B AAS- GTA Method	7.0 $\mu\text{g}/\text{m}^3$	BDL	1.0 $\mu\text{g}/\text{m}^3$ ⁽²⁴ Hourly average)
3	Nickle, $\mu\text{g}/\text{m}^3$	IS 3025 (Part 54): 2003, AAS- Flame Method	0.007 $\mu\text{g}/\text{m}^3$	BDL	0.02 $\mu\text{g}/\text{m}^3$ (Annual average)
4	Total Chromium, $\mu\text{g}/\text{m}^3$	IS 3025 (Part 52): 2003, AAS- Flame	0.0045 $\mu\text{g}/\text{m}^3$	BDL	**
5	Cadmium, $\mu\text{g}/\text{m}^3$	APHA,22 nd Edition,3111 B AAS- GTA Method	0.0015 $\mu\text{g}/\text{m}^3$	BDL	**

BDL: Below detection limit



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Test Report

Air quality monitoring data

SUB - STATION: WMOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-03-2020	310
TLV	600

SAM OFFICE: WMOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-03-2020	322
16-03-2020	308
TLV	600

KAILSHNAGAR TOWNSHIP FILTER PLANT : WMOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-03-2020	176
TLV	200

TUBEWELL NEAR SAKHARA VILLAGE: WMOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-03-2020	196
16-03-2020	174
TLV	200



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FUGITIVE DUST MONITORING DATA

SECURITY CHECK POST OFFICE: WMOF1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-03-2020	401



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TSET REPORT NO.	RIN/TR/MARCH-20/W36	DATE OF ISSUE	15.04.2020
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
08-03-2020	6.8	34	36	BDL
16-03-2020	7	46	40	BDL
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
08-03-2020	7.3	40	44	BDL
16-03-2020	7.1	52	56	BDL
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MARCH

CHP: WMON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	14-03-2020	64.6	63.8
MARCH 2020	19-03-2020	65.2	64.4
TLV		75	70

COLONY: WMON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	14-03-2020	42.8	41.9
MARCH 2020	19-03-2020	42.2	41.6
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

NAIGAON OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



MARCH 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
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TSET REPORT NO.	RIN/TR/MARCH-20/A37	DATE OF ISSUE	15.04.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] &PM-2.5		
NAME OF AREA	WANI AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	NAIGAON OC	SAMPLING PLAN : LQR 47	

SAM OFFICE: WNGOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-03-2020	234	32	30	11
TLV	300	60	120	120

WORKSHOP ETP NOCM - I: WNGOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-03-2020	184	54	32	BDL
16-03-2020	210	50	26	11
TLV	300	60	120	120

BELLORA REHABILITATION VILLAGE: WNGOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-03-2020	100	38	24	BDL
TLV	100	60	80	80

FILTER PLANT NEAR VIP GUEST HOUSE: WNGOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-03-2020	94	44	20	BDL
TLV	100	60	80	80



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Test Report

Air quality monitoring data

SAM OFFICE: WNGOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-03-2020	352
TLV	600

WORKSHOP ETP NOCM - I: WNGOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-03-2020	270
16-03-2020	304
TLV	600

BELLORA REHABILITATION VILLAGE: WNGOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-03-2020	168
TLV	200

FILTER PLANT NEAR VIP GUEST HOUSE: WNGOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-03-2020	152
TLV	200



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MANAGER (ENV.)

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MARCH

CHP: WNGON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	14-03-2020	63.5	62.9
MARCH 2020	19-03-2020	62.8	61.5
TLV		75	70

COLONY (GHUGUS): WNGON3			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	14-03-2020	44.5	43.7
MARCH 2020	19-03-2020	44.8	43.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

NILJAI DEEP OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



MARCH 2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

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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
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TSET REPORT NO.	RIN/TR/MARCH-20/A35	DATE OF ISSUE	15.04.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	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 $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-03-2020	210	42	24	11
16-03-2020	196	46	32	BDL
TLV	300	60	120	120

WORKSHOP ETP NOCM: WNOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-03-2020	184	54	32	BDL
16-03-2020	210	50	26	11
TLV	300	60	120	120

NILJAI COLONY: WNOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-03-2020	102	44	16	BDL
16-03-2020	96	40	11	10
TLV	100	60	80	80

TARODA VILLAGE: WNOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-03-2020	90	40	30	BDL
16-3-202	100	42	24	BDL
TLV	100	60	80	80



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Test Report

Air quality monitoring data

CIVIL OFFICE- NILJAI: WNOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-03-2020	302
16-03-2020	294
TLV	600

WORKSHOP ETP NOCM: WNOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-03-2020	270
16-03-2020	304
TLV	600

NILJAI COLONY: WNOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-03-2020	132
16-03-2020	118
TLV	200

TARODA VILLAGE: WNOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-03-2020	176
16-03-2020	189
TLV	200




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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH-20/W35	DATE OF ISSUE	15.04.2020
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
14-03-2020	6.3	42	48	BDL
16-03-2020	6	30	36	BDL
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
14-03-2020	7.6	44	40	BDL
16-03-2020	7.5	42	48	BDL
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
14-03-2020	56	14
16-03-2020	60	11
TLV	100	30



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NOISE LEVEL DATA

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

CHP: WNON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	14-03-2020	63.9	63.2
MARCH 2020	19-03-2020	64.2	62.8
TLV		75	70

CHP (S): WNON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	14-03-2020	64.7	63.8
MARCH 2020	19-03-2020	63.5	62.4
TLV		75	70

COLONY: WNON3			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	14-03-2020	43.5	42.9
MARCH 2020	19-03-2020	42.7	41.5
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

PENGANGA OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



MARCH 2020

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

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INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	INTRODUCTION	1 to 3
2	AIR QUALITY MONITORING DATA	4 to 7
3	WATER QUALITY MONITORING DATA	8 to 10
4	NOISE LEVEL DATA	11

INTRODUCTION

Penganga Opencast Project is located in Wani Tahsil of Yeotmal district of Maharashtra State. It is administered by Wani Area of Western Coalfields Limited. Drainage of the area is controlled by Wardhar river and Penganga river. The climate of this area is tropical. The above mentioned industries and the busy road traffic are also expected to contribute in increasing the pollution load of the area.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER OFFICE:	WPOA1
2	NEAR MINE:	WPOA2
3	VIRUR VILLAGE :	WPOA3
4	GADEGAON VILLAGE:	WPOA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NEAR WORKSHOP:	WPOF1

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	WPOW1

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NEAR WORKSHOP:	WPON1

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH-20/A40	DATE OF ISSUE	15.04.2020
NAME OF CUSTOMER	GM(ENV.)WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	WANI AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	PENGANGA OC	SAMPLING PLAN : LQR 47	

MANAGER OFFICE: WPOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-03-2020	100	50	22	BDL
TLV	300	60	120	120

NEAR MINE: WPOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-03-2020	190	52	34	16
TLV	300	60	120	120

VIRUR VILLAGE : WPOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-03-2020	102	44	26	12
TLV	100	60	80	80

GADEGAON VILLAGE: WPOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-03-2020	104	52	30	11
TLV	100	60	80	80



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FUGITIVE DUST MONITORING DATA

NEAR WORKSHOP: WPOF1		
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)	
	PM10	PM _{2.5}
DETECTION LIMIT	5	2
07-03-2020	365	127



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Test Report

Air quality monitoring data

MANAGER OFFICE: WPOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-03-2020	192
TLV	600

NEAR MINE: WPOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-03-2020	324
TLV	600

VIRUR VILLAGE : WPOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-03-2020	198
TLV	200

GADEGAON VILLAGE: WPOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-03-2020	200
TLV	200



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MANAGER (ENV.)

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FUGITIVE DUST MONITORING DATA

NEAR WORKSHOP: WPOF1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-03-2020	524

Name of location			Location Code		Date of sampling
NEAR WORKSHOP:			WPOF-1		29.07.19
Sl. No.	Parameter	Method of analysis	Detection limit	Observed value	National Ambient Air Quality Standard NAAQS, 2009
1	Arsenic, $\mu\text{g}/\text{m}^3$	IS 3025(Part 37):1988 AAS- VGA Method	0.0007 $\mu\text{g}/\text{m}^3$	BDL	0.006 $\mu\text{g}/\text{m}^3$ (Annual average)
2	Lead, $\mu\text{g}/\text{m}^3$	APHA,22 nd Edition,311 3B AAS-GTA Method	7.0 $\mu\text{g}/\text{m}^3$	BDL	1.0 $\mu\text{g}/\text{m}^3$ (24 Hourly average)
3	Nickle, $\mu\text{g}/\text{m}^3$	IS 3025 (Part 54): 2003, AAS-Flame Method	0.007 $\mu\text{g}/\text{m}^3$	BDL	0.02 $\mu\text{g}/\text{m}^3$ (Annual average)
4	Total Chromium, $\mu\text{g}/\text{m}^3$	IS 3025 (Part 52): 2003, AAS-Flame	0.0045 $\mu\text{g}/\text{m}^3$	BDL	**
5	Cadmium, $\mu\text{g}/\text{m}^3$	APHA,22 nd Edition,311 1B AAS-GTA Method	0.0015 $\mu\text{g}/\text{m}^3$	BDL	**


BDL: Below detection limit



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TSET REPORT NO.	RIN/TR/MARCH-20/W40	DATE OF ISSUE	15.04.2020
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
07-03-2020	7.9	42	40	BDL
17-03-2020	7.6	28	32	BDL
TLV	5.5 - 9.0	100	250	10

SURFACE WATER QUALITY DATA

NAME OF LOCATION		DATE OF SAMPLING					
PENGANGA RIVER UPSTREAM		09.03.2020					
PENGANGA RIVER DOWNSTREAM		09.03.2020					
Sl. No.	Parameter	Test method	Detection limit	IS 2296 Inland surface water (1982) class C	Analysis result		Remarks
					Upstream	Downstream	
1	pH Value	IS-3025/11:1983 Electrometric	0.2	6.5 to 8.5	7.2	7.5	
2	Colour (Hz)	APHA, 22nd Edition Platinum Cobalt	1	300	3	4	

3	TDS -mg/l	IS-3025/17:1984 Gravimetric	25	1500	312	389	
4	Oil & Grease -mg/l	IS-3025/39:1991 Partition Gravimetric	2	0.1	BDL	BDL	
5	Dissolved oxygen-mg/l	Is-3025/38.1989 Winkler Azide	0.1	4	5	4.7	
6	B.O.D. (3 days at 27°C)-mg/l	IS 3025 (Part 44) : 1993	2	3	2	3	
7	Arsenic -mg/l	APHA, 22nd Edition AAS-GTA	0.005	0.2	BDL	BDL	
8	Lead -mg/l	APHA, 22nd Edition AAS-GTA	0.005	0.1	BDL	BDL	
9	Hexavalent Chromium - mg/l	APHA, 22nd Edition 1,5-Diphenylcarb ohydrazide	0.01	0.05	BDL	BDL	
10	Copper -mg/l	IS-3025/42:1992 AAS-Flame	0.03	1.5	BDL	BDL	
11	Zinc -mg/l	IS-3025/49:1994 AAS-Flame	0.01	15	BDL	BDL	

12	Selenium -mg/l	APHA, 22nd Edition AAS-VGA	0.005	0.05	BDL	BDL	
13	Cadmium - mg/l	APHA, 22nd Edition AAS-GTA	0.005	0.01	BDL	BDL	
14	Fluoride - mg/l	APHA, 22nd Edition SPADNS	0.02	1.5	0.71	0.78	
15	Iron -mg/l	IS-3025/53:2003 AAS-Flame	0.06	50	BDL	BDL	
16	Nitrate Nitrogen - mg/l	APHA, 22nd Edition UV-Spectrophotometric	0.5	50	6.2	7.5	
17	Sulphate - mg/l	APHA, 22nd Edition Turbidity	2	400	42	60	
18	Chlorides - mg/l	IS-3025/32:1988 AAS-Flame	2	600	56	77	

BDL: BELOW DETECTION LIMIT



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NOISE LEVEL DATA

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

NEAR WORKSHOP: WPON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	14-03-2020	56.7	55.9
MARCH 2020	19-03-2020	57.1	55.6
TLV		75	70

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official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

GHONSA OC

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 800003



MARCH 2020



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

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REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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INDEX

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

INTRODUCTION

Ghonsa Open Cast Project is located in Wani Tahsil of Yeotmal district of Maharashtra State. It is administered by Wani North Area of Western Coalfields Limited. Vidarbha river serves as the main drainage of the area during rainy season. The climate of this area is tropical. Transportation roads, agricultural and local activities, vehicular traffic etc also contributes to the pollution.

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

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER OFFICE:	WNGOA1
2	SAM OFFICE/ CANTEEN:	WNGOA2
3	GHONSA VILLAGE:	WNGOA3
4	GUEST HOUSE/ COLONY:	WNGOA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	WNGOW1

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER OFFICE:	WNGON1

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

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

TSET REPORT NO.	RIN/TR/MARCH-20/A55	DATE OF ISSUE	15.04.2020
NAME OF CUSTOMER	GM(ENV.)WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	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 $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-03-2020	128	60	44	26
20-03-2020	160	56	34	26
TLV	300	60	120	120

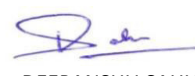
SAM OFFICE/ CANTEEN: WNGOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-03-2020	160	76	36	24
20-03-2020	126	58	34	22
TLV	300	60	120	120

GHONSA VILLAGE: WNGOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-03-2020	96	50	34	26
20-03-2020	96	46	20	16
TLV	100	60	80	80

GUEST HOUSE/ COLONY: WNGOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-03-2020	100	56	24	12
20-03-2020	88	44	26	20
TLV	100	60	80	80



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Test Report

Air quality monitoring data

MANAGER OFFICE: WNGOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-03-2020	210
20-03-2020	240
TLV	600

SAM OFFICE/ CANTEEN: WNGOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-03-2020	236
20-03-2020	218
TLV	600

GHONSA VILLAGE: WNGOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-03-2020	156
20-03-2020	148
TLV	200

GUEST HOUSE/ COLONY: WNGOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-03-2020	148
20-03-2020	136
TLV	200



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

TSET REPORT NO.	RIN/TR/MARCH-20/W55	DATE OF ISSUE	15.04.2020
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
07-03-2020	7.3	24	40	BDL
20-03-2020	7.3	20	28	BDL
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MARCH

MANAGER OFFICE: WNGON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	56.8	55.2
MARCH 2020	17-03-2020	56.4	55.9
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

JUNAD OC

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 8000003



MARCH 2020

Environment Laboratory

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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/MARCH-20/A53	DATE OF ISSUE	15.04.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	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 $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-03-2020	148	60	26	20
TLV	300	60	120	120

BORGAON VILLAGE: WNJOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-03-2020	100	50	20	14
TLV	100	60	80	80

BHALAR TOWNSHIP: WNJOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-03-2020	96	48	26	14
TLV	100	60	80	80

UKNI VILLAGE: WNJOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-03-2020	72	28	14	12
TLV	100	60	80	80



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Test Report

Air quality monitoring data

SAM OFFICE: WNJOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-03-2020	210
TLV	600

BORGAON VILLAGE: WNJOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-03-2020	146
TLV	200

BHALAR TOWNSHIP: WNJOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-03-2020	176
TLV	200

UKNI VILLAGE: WNJOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-03-2020	230
TLV	200



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

TSET REPORT NO.	RIN/TR/MARCH-20/W53	DATE OF ISSUE	15.04.2020
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
13-03-2020	6.9	64	88	BDL
19-03-2020	7.1	30	44	BDL
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
13-03-2020	7.2	20	28	BDL
19-03-2020	7.6	24	32	BDL
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MARCH

MANAGER OFFICE: WNJON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	56.4	55.7
MARCH 2020	17-03-2020	55.8	54.9
TLV		75	70

BHALAR COLONY: WNJON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	43.5	42.7
MARCH 2020	17-03-2020	42.7	41.9
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

KOLARPIMPRI OC

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 8000003



MARCH-2020

Environment Laboratory

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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/MARCH-20/A50	DATE OF ISSUE	15.04.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	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)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
05-03-2020	112	50	28	20
19-03-2020	122	56	28	20
TLV	300	60	120	120

REST SHELTER: WNKOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-03-2020	90	44	26	14
19-03-2020	100	48	26	18
TLV	300	60	120	120

PIMPRI VILLAGE: WNKOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
04-03-2020	80	26	12	10
19-03-2020	100	50	20	14
TLV	100	60	80	80

WATER FILTER PLANT PRAGATI NAGAR: WNKOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-03-2020	90	28	20	14
18-03-2020	120	54	28	20
TLV	100	60	80	80



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Test Report

Air quality monitoring data

SUBSTATION KOLARPIMPRI: WNKO A1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
05-03-2020	190
19-03-2020	188
TLV	600

REST SHELTER: WNKO A2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-03-2020	148
19-03-2020	154
TLV	600

PIMPRI VILLAGE: WNKO A3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
04-03-2020	126
19-03-2020	160
TLV	200

WATER FILTER PLANT PRAGATI NAGAR: WNKO A4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-03-2020	148
18-03-2020	166
TLV	200



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---	---	--

TSET REPORT NO.	RIN/TR/MARCH-20/W50	DATE OF ISSUE	15.04.2020
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
04-03-2020	6.3	22	32	BDL
19-03-2020	6.7	20	28	BDL
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MARCH

CHP: WNKON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	62.7	61.9
MARCH 2020	17-03-2020	63.5	62.8
TLV		75	70

COLONY PRAGATI NAGAR: WNKON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	44.7	43.5
MARCH 2020	17-03-2020	43.8	42.9
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

KUMBHARKHANI UG

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 8000003



MARCH 2020

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INDEX

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

INTRODUCTION

Junad Opencast Project is located in Wani Tahsil of Yeotmal district of Maharashtra State. It is administered by Wani North Area of Western Coalfields Limited. The drainage of the area is controlled by Wardha river. The climate of this area is tropical. The above-mentioned industries are also expected to contribute in increasing the pollution load of the area.

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

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	PROJECT MANAGER OFFICE:	WNKUA1
2	SAM OFFICE/ CANTEEN:	WNKUA2
3	GUEST HOUSE / COLONY:	WNKUA3
4	GHONSA VILLAGE:	WNKUA4

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE:	WNKUN1
2	COLONY:	WNKUN2

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH-20/A54	DATE OF ISSUE	15.04.2020
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		
NAME OF AREA	WANI NORTH	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	KUMBHARKHANI UG	SAMPLING PLAN : LQR 47	

PROJECT MANAGER OFFICE: WNKUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-03-2020	216	86	48	36
19-03-2020	240	74	44	36
TLV	300	60	120	120

SAM OFFICE/ CANTEEN: WNKUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-03-2020	160	76	36	24
20-03-2020	126	58	34	22
TLV	300	60	120	120

GUEST HOUSE / COLONY: WNKUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-03-2020	100	56	24	12
20-03-2020	88	44	26	20
TLV	100	60	80	80

GHONSA VILLAGE: WNKUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-03-2020	96	50	34	26
20-03-2020	96	46	20	16
TLV	100	60	80	80



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Test Report

Air quality monitoring data

PROJECT MANAGER OFFICE: WNKUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-03-2020	346
19-03-2020	366
TLV	600

SAM OFFICE/ CANTEEN: WNKUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-03-2020	236
20-03-2020	218
TLV	600

GUEST HOUSE / COLONY: WNKUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-03-2020	148
20-03-2020	136
TLV	200

GHONSA VILLAGE: WNKUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-03-2020	156
20-03-2020	148
TLV	200



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NOISE LEVEL DATA

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

FAN HOUSE: WNKUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	46.8	45.4
MARCH 2020	17-03-2020	45.8	44.9
TLV		75	70

COLONY: WNKUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	43.7	42.8
MARCH 2020	17-03-2020	44.6	43.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

PIMPALGAON OC

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 8000003



MARCH-2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

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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
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TSET REPORT NO.	RIN/TR/MARCH-20/A51	DATE OF ISSUE	15.04.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	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)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-03-2020	110	56	24	12
TLV	300	60	120	120

WORKSHOP: WNPOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-03-2020	136	60	24	20
17-03-2020	140	60	36	24
TLV	300	60	120	120

WATER FILTER PLANT PRAGATI NAGAR: WNPOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-03-2020	90	28	20	14
18-03-2020	120	54	28	20
TLV	100	60	80	80

BORGHAON VILLAGE: WNPOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-03-2020	100	50	20	14
TLV	100	60	80	80



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Test Report

Air quality monitoring data

SAM OFFICE: WNPOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-03-2020	190
TLV	600

WORKSHOP: WNPOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-03-2020	210
17-03-2020	220
TLV	600

WATER FILTER PLANT PRAGATI NAGAR: WNPOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-03-2020	148
18-03-2020	166
TLV	200

BORGAON VILLAGE: WNPOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-03-2020	145
TLV	200



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MARCH

CHP: WNPN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	63.5	62.8
MARCH 2020	17-03-2020	63.7	62.9
TLV		75	70

COLONY PRAGATI NAGAR: WNPN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	44.7	43.5
MARCH 2020	17-03-2020	43.8	42.9
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

RAJUR UG

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 8000003



MARCH 2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

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INDEX

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

INTRODUCTION

Rajur Underground Project is located in Wani Tahsil of Yeotmal district of Maharashtra State. It is administered by Wani North Area of Western Coalfields Limited. Wardha river serves as the main drainage of the area. The climate of this area is tropical. Besides other coal mines, there are a lot of lime kiln and fire bricks industries near the project area. Transportation roads, agricultural and local activities, vehicular traffic etc also contributes to the pollution. The above-mentioned industries are also expected to contribute in increasing the pollution load of the area.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NEAR BANDEWADA INCLINE:	WNRUA1
2	SAM OFFICE:	WNRUA2
3	PIT OFFICE/ COLONY:	WNRUA3
4	HUTMENT:	WNRUA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	WNRUW1

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE:	WNRUN1
2	COLONY:	WNRUN2

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

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

TSET REPORT NO.	RIN/TR/MARCH-20/A52	DATE OF ISSUE	15.04.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	WANI NORTH	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	RAJUR UG	SAMPLING PLAN	LQR 47

NEAR BANDEWADA INCLINE: WNRUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-03-2020	176	80	48	24
21-03-2020	190	66	40	28
TLV	300	60	120	120

SAM OFFICE: WNRUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-03-2020	120	58	26	20
21-03-2020	130	60	36	24
TLV	300	60	120	120

PIT OFFICE/ COLONY: WNRUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-03-2020	160	62	36	28
21-03-2020	148	50	40	28
TLV	300	60	120	120

HUTMENT: WNRUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-03-2020	100	56	24	14
21-03-2020	110	54	26	20
TLV	100	60	80	80



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Test Report

Air quality monitoring data

NEAR BANDEWADA INCLINE: WNRUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-03-2020	310
21-03-2020	326
TLV	600

SAM OFFICE: WNRUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-03-2020	196
21-03-2020	182
TLV	600

PIT OFFICE/ COLONY: WNRUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-03-2020	236
21-03-2020	220
TLV	600

HUTMENT: WNRUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-03-2020	158
21-03-2020	162
TLV	200



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

TSET REPORT NO.	RIN/TR/MARCH-20/W52	DATE OF ISSUE	15.04.2020
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	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
06-03-2020	7.1	20	28	BDL
21-03-2020	7.2	24	36	BDL
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MARCH

FAN HOUSE: WNRUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	68.9	68.2
MARCH 2020	17-03-2020	68.5	69.5
TLV		75	70

COLONY: WNRUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	43.8	42.7
MARCH 2020	17-03-2020	42.9	41.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

UKNI OC

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 800003



MARCH-2020

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

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INDEX

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

INTRODUCTION

Ukni Opencast Project is located in Wani Tahsil of Yeotmal district of Maharashtra State. It is administered by Wani North Area of Western Coalfields Limited. Wardha river serves as the main drainage of the area during rainy season. The climate of this area is tropical. The above-mentioned industries are also expected to contribute in increasing the pollution load of the area.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	WORKSHOP PREMISES:	WNUOA1
2	BHALAR TOWNSHIP:	WNUOA2
3	UKNI VILLAGE:	WNUOA3
4	PIMPRI VILLAGE:	WNUOA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	WEIGHT BRIDGE:	WNUOF1
2	CHP:	WNUOF2

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	WNUOW1
2	ETP (TREATED):	WNUOW2
3	STP DISCHARGE:	WNUOW3

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP:	WNUON1
2	BHALAR COLONY:	WNUON2

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

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

TSET REPORT NO.	RIN/TR/MARCH-20/A49	DATE OF ISSUE	15.04.2020
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		
NAME OF AREA	WANI NORTH	SAMPLING METHOD :	LSOP 4
NAME OF PROJECT	UKNI OC	SAMPLING PLAN :	LQR 47

WORKSHOP PREMISES: WNUOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-03-2020	100	54	28	16
TLV	300	60	120	120

BHALAR TOWNSHIP: WNUOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-03-2020	96	48	26	14
TLV	100	60	80	80

UKNI VILLAGE: WNUOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-03-2020	72	28	14	12
TLV	100	60	80	80

PIMPRI VILLAGE: WNUOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
04-03-2020	80	26	12	10
19-03-2020	100	50	20	14
TLV	100	60	80	80



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Test Report

Air quality monitoring data

WORKSHOP PREMISES: WNUOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-03-2020	230
TLV	600

BHALAR TOWNSHIP: WNUOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-03-2020	176
TLV	200

UKNI VILLAGE: WNUOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-03-2020	132
TLV	200


PIMPRI VILLAGE: WNUOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
04-03-2020	126
19-03-2020	160
TLV	200



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---	---	---

TSET REPORT NO.	RIN/TR/MARCH-20/W49	DATE OF ISSUE	15.04.2020
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
06-03-2020	6.8	18	24	BDL
17-03-2020	7.3	18	28	BDL
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
06-03-2020	7.3	66	120	BDL
17-03-2020	7.1	22	32	BDL
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
06-03-2020	34	10
17-03-2020	42	14
TLV	100	30



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MARCH

CHP: WNUON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	64.6	63.9
MARCH 2020	17-03-2020	64.8	63.9
TLV		75	70

BHALAR COLONY: WNUON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	43.5	42.7
MARCH 2020	17-03-2020	42.7	41.9
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

WANI RAILWAY SIDING

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



MARCH 2020



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

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REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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INDEX

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

INTRODUCTION

Barkuhi OC is located in Chhindwara district of Madhya Pradesh. The project is administered by Pench Area of Western Coalfields Limited. Drainage of the area is mainly controlled by Penchrivier. The climate of the area is tropical. Transportation roads, agricultural and local activities, vehicular traffic etc also contributes to the pollution.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FARMHOUSE NEAR MSH6 :	WNRSA1
2	SHETHKARI DHANYA BAZAR :	WNRSA2
3	RES.HOUSE VITTALWADI WANI:	WNRSA3

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	WANI RAILWAY SIDING	WNRSF1

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	COAL STOCK YARD:	WNRS1
2	NEAR INCHARGE OFFICE:	WNRS2

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH-20/A56	DATE OF ISSUE	15.04.2020
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		
NAME OF AREA	WANI NORTH AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	WANI RAILWAY SIDING	SAMPLING PLAN : LQR 47	

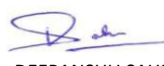
FARMHOUSE NEAR MSH6 : WNRSA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
04-03-2020	260	88	48	40
05-03-2020	240	76	44	36
11-03-2020	220	70	36	28
12-03-2020	228	88	48	30
17-03-2020	248	72	36	24
18-03-2020	236	70	36	20
TLV	300	60	120	120

SHETHKARI DHANYA BAZAR : WNRSA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
04-03-2020	100	48	26	18
05-03-2020	98	52	20	16
11-03-2020	110	56	28	20
12-03-2020	120	60	36	24
17-03-2020	110	46	18	10
18-03-2020	100	36	28	20
TLV	100	60	80	80

RES.HOUSE VITTALWADI WANI: WNRSA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
04-03-2020	90	44	20	14
05-03-2020	94	42	16	10
11-03-2020	100	48	24	20
12-03-2020	112	54	36	18
17-03-2020	100	48	34	20
18-03-2020	96	44	24	16
TLV	100	60	80	80



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Test Report

Air quality monitoring data

FARMHOUSE NEAR MSH6 : WNRS1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
04-03-2020	340
05-03-2020	348
11-03-2020	318
12-03-2020	360
17-03-2020	366
18-03-2020	344
TLV	600

SHETHKARI DHANYA BAZAR : WNRS2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
04-03-2020	148
05-03-2020	156
11-03-2020	176
12-03-2020	180
17-03-2020	164
18-03-2020	144
TLV	200

RES.HOUSE VITTALWADI WANI: WNRS3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
04-03-2020	126
05-03-2020	132
11-03-2020	148
12-03-2020	166
17-03-2020	168
18-03-2020	154
TLV	200



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DEEPANSHU SAHU
MANAGER (ENV.)

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NOISE LEVEL DATA

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

COAL STOCK YARD: WNRS1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	45.6	44.9
MARCH 2020	17-03-2020	45.8	44.8
TLV		75	70

NEAR INCHARGE OFFICE: WNRS2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	62.9	61.8
MARCH 2020	17-03-2020	63.5	62.9
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

AMBARA OC

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



MARCH-2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

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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/MARCH-20/A74	DATE OF ISSUE	15-04-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] &PM-2.5		
NAME OF AREA	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)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-03-2020	123	38	21	15
31-03-2020	130	27	20	12
TLV	300	60	120	120

PIT OFFICE- MOHAN: KAOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-03-2020	151	30	20	12
31-03-2020	145	39	19	11
TLV	300	60	120	120

COLONY- HEALTH CENTRE: KAOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-03-2020	152	38	19	11
31-03-2020	131	29	18	<10
TLV	100	60	80	80

AMBARA VILLAGE: KAOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-03-2020	165	33	18	11
31-03-2020	133	28	16	<10
TLV	100	60	80	80

Latimberme

SCIENTIFIC ASSISTANT

Deepanshu

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Test Report

Air quality monitoring data

MANAGER OFFICE : KAOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-03-2020	136
31-03-2020	149
TLV	600

PIT OFFICE- MOHAN: KAOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-03-2020	174
31-03-2020	166
TLV	600

COLONY- HEALTH CENTRE: KAOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-03-2020	171
31-03-2020	159
TLV	200

AMBARA VILLAGE: KAOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-03-2020	180
31-03-2020	165
TLV	200

Lakshmi

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D. Sahu

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MANAGER (ENV.)

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MARCH

MANAGER OFFICE: KAON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	13-03-2020	51.5	48.7
MARCH 2020	30-03-2020	52.7	48.6
TLV		75	70

COLONY (MOHAN/MAORI): KAON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	13-03-2020	45.2	43.6
MARCH 2020	30-03-2020	45.6	43.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

AMBARA UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



MARCH 2020

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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 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/MARCH-20/A72	DATE OF ISSUE	15-04-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	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 µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-03-2020	143	29	17	<10
31-03-2020	151	36	16	<10
TLV	300	60	120	120

PIT OFFICE- MOHAN: KAUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-03-2020	151	30	20	12
31-03-2020	145	39	19	11
TLV	300	60	120	120

COLONY- HEALTH CENTRE: KAUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-03-2020	152	38	19	11
31-03-2020	131	29	18	<10
TLV	100	60	80	80

AMBARA VILLAGE: KAUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-03-2020	165	33	18	11
31-03-2020	133	28	16	<10
TLV	100	60	80	80

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Deepanshu Sahu

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Test Report

Air quality monitoring data

SAM OFFICE- AMBARA : KAUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-03-2020	185
31-03-2020	192
TLV	600

PIT OFFICE- MOHAN: KAUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-03-2020	174
31-03-2020	166
TLV	600

COLONY- HEALTH CENTRE: KAUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-03-2020	171
31-03-2020	159
TLV	200

AMBARA VILLAGE: KAUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-03-2020	180
31-03-2020	165
TLV	200

Lakshmi

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D. Sahu

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MANAGER (ENV.)

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MARCH

COLONY(MOHAN/MAORI) KAUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	13-03-2020	45.7	43.6
MARCH 2020	30-03-2020	45.6	43.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

AREA WORKSHOP

KANHAN AREA

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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

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.

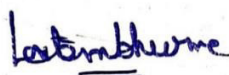
WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH-20/A80	DATE OF ISSUE	15-04-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] &PM-2.5		
NAME OF AREA	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 µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-03-2020	141	19	14	<10
31-03-2020	150	23	13	<10
TLV	300	60	120	120



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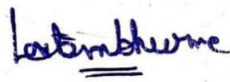


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Test Report
Air quality monitoring data

AREA WORKSHOP : KAWA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-03-2020	156
31-03-2020	178
TLV	600



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DEEPANSHU SAHU
 MANAGER (ENV.)

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MARCH

WORKSHOP PREMISES: KAWN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	13-03-2020	46.7	44.8
MARCH 2020	30-03-2020	46.4	43.5
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

DAMUA OC

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



MARCH 2020



Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

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INDEX

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

INTRODUCTION

Damua OC Project is located in Chhindwara district of Madhya Pradesh. The project is administered by Kanhan Area of Western Coalfields Limited. Drainage of the area is mainly controlled by Kanhan river and Bhor nalla (a tributary of Kanhan river).The climate of the area is tropical.Transportation roads, agricultural and local activities ,vehicular traffic etc also contributes to the pollution.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	OC OFFICE :	KDOA1
2	SAM OFFICE- DAMUA:	KDOA2
3	RESCUE STATION (NEAR INCLINE 24&25):	KDOA3
4	NANDORA VILLAGE:	KDOA4

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NEAR MANAGER OFFICE:	KDON1

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH-20/A78	DATE OF ISSUE	15-04-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	DAMUA OC	SAMPLING PLAN : LQR 47	

OC OFFICE : KDOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-03-2020	148	35	19	13
30-03-2020	136	30	17	12
TLV	300	60	120	120

SAM OFFICE- DAMUA: KDOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-03-2020	160	26	15	10
29-03-2020	145	29	14	<10
TLV	300	60	120	120

RESCUE STATION (NEAR INCLINE 24&25): KDOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-03-2020	132	24	14	11
29-03-2020	128	32	17	12
TLV	300	60	120	120

NANDORA VILLAGE: KDOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-03-2020	202	50	20	16
29-03-2020	159	30	16	11
TLV	100	60	80	80

Lakshmi

SCIENTIFIC ASSISTANT

Deepanshu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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Test Report

Air quality monitoring data

OC OFFICE : KDOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-03-2020	161
30-03-2020	172
TLV	600

SAM OFFICE- DAMUA: KDOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-03-2020	186
29-03-2020	179
TLV	600

RESCUE STATION (NEAR INCLINE 24&25): KDOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-03-2020	146
29-03-2020	159
TLV	600

NANDORA VILLAGE: KDOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-03-2020	219
29-03-2020	180
TLV	200

Lakshmi

SCIENTIFIC ASSISTANT

D. Sahu

DEEPANSHU SAHU
MANAGER (ENV.)

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MARCH

NEAR MANAGER OFFICE: KDON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	13-03-2020	45.6	43.4
MARCH 2020	30-03-2020	45.4	41.9
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

DAMUA UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



MARCH 2020

Environment Laboratory

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CMPDI

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INDEX

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

INTRODUCTION

Damua UG is located in Chhindwara district of Madhya Pradesh. The project is administered by Kanhan Area of Western Coalfields Limited. Drainage of the area is mainly controlled by Kanhan river and Bor 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
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TSET REPORT NO.	RIN/TR/MARCH-20/A77	DATE OF ISSUE	15-04-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] &PM-2.5		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD :	LSOP 4
NAME OF PROJECT	DAMUA UG	SAMPLING PLAN :	LQR 47

SAM OFFICE- DAMUA: KDUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-03-2020	160	26	15	10
29-03-2020	145	29	14	<10
TLV	300	60	120	120

RESCUE STATION (NEAR INCLINE 24&25): KDUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-03-2020	132	24	14	11
29-03-2020	128	32	17	12
TLV	300	60	120	120

NANDORA VILLAGE: KDUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-03-2020	202	50	20	16
29-03-2020	159	30	16	11
TLV	100	60	80	80

Latimberme

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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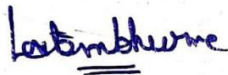
Test Report

Air quality monitoring data

SAM OFFICE- DAMUA: KDUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-03-2020	186
29-03-2020	179
TLV	600

RESCUE STATION (NEAR INCLINE 24&25): KDUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-03-2020	146
29-03-2020	159
TLV	600

NANDORA VILLAGE: KDUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-03-2020	219
29-03-2020	180
TLV	200



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MARCH

COLONY: KDUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	13-03-2020	44.2	40.8
MARCH 2020	30-03-2020	44.7	42.8
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

GHORAWARI OC

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



MARCH-2020

Environment Laboratory

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CMPDI

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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.

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---	--	--

TSET REPORT NO.	RIN/TR/MARCH-20/A76	DATE OF ISSUE	15-04-2020
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		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	GHORAWARI OC	SAMPLING PLAN	LQR 47

MANAGER OFFICE-OC : KGOA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-03-2020	183	41	16	<10
31-03-2020	180	38	18	13
TLV	300	60	120	120

SAM - OFFICE GHORAWARI : KGOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-03-2020	172	35	19	11
30-03-2020	149	31	18	<10
TLV	300	60	120	120

COLONY- HEALTH CENTRE JHARNA: KGOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-03-2020	109	29	19	12
30-03-2020	96	25	16	<10
TLV	100	60	80	80

PANARA VILLAGE: KGOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-03-2020	145	33	20	16
30-03-2020	138	29	17	11
TLV	100	60	80	80

Latambhurne

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Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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Test Report

Air quality monitoring data

MANAGER OFFICE-OC : KGOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-03-2020	213
31-03-2020	229
TLV	600

SAM - OFFICE GHORAWARI : KGOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-03-2020	186
30-03-2020	171
TLV	600

COLONY- HEALTH CENTRE JHARNA: KGOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-03-2020	131
30-03-2020	122
TLV	200

PANARA VILLAGE: KGOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-03-2020	171
30-03-2020	160
TLV	200

Lakshmi

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
MANAGER (ENV.)

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NOISE LEVEL DATA

NAME OF AREA: KANHAN AREA
NAME OF PROJECT: GHORAWARI OC

YEAR: 2020
MONTH: MARCH

MANAGER OFFICE: KGON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	13-03-2020	47.7	42.8
MARCH 2020	30-03-2020	47.1	45.3
TLV		75	70

COLONY (JHARNA UG) KGON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	13-03-2020	44.5	41.9
MARCH 2020	30-03-2020	45.5	42.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

JHARNA - UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



MARCH-2020

Environment Laboratory

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INDEX

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

INTRODUCTION

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

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

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER OFFICE- JHARNA UG :	KJUA1
2	SAM OFFICE- GHORAWARI:	KJUA2
3	COLONY- HEALTH CENTRE JHARNA:	KJUA3
4	PANARA VILLAGE:	KJUA4

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE:	KJUN1
2	COLONY:	KJUN2

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH-20/A75	DATE OF ISSUE	15-04-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	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)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-03-2020	151	29	20	15
30-03-2020	161	38	21	16
TLV	300	60	120	120

SAM OFFICE- GHORAWARI: KJUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-03-2020	172	35	19	11
30-03-2020	149	31	18	<10
TLV	300	60	120	120

COLONY- HEALTH CENTRE JHARNA: KJUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-03-2020	109	29	19	12
30-03-2020	96	25	16	<10
TLV	100	60	80	80

PANARA VILLAGE: KJUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-03-2020	145	33	20	16
30-03-2020	138	29	17	11
TLV	100	60	80	80

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SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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Test Report

Air quality monitoring data

MANAGER OFFICE- JHARNA UG : KJUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-03-2020	170
30-03-2020	189
TLV	600

SAM OFFICE- GHORAWARI: KJUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-03-2020	186
30-03-2020	171
TLV	600

COLONY- HEALTH CENTRE JHARNA: KJUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-03-2020	131
30-03-2020	122
TLV	200

PANARA VILLAGE: KJUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-03-2020	171
30-03-2020	160
TLV	200

Laxminbharne

SCIENTIFIC ASSISTANT

D. Sahu

DEEPANSHU SAHU
MANAGER (ENV.)

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NOISE LEVEL DATA

NAME OF AREA: KANHAN AREA **YEAR: 2020**
NAME OF PROJECT: JHARNA - UG **MONTH: MARCH**

FAN HOUSE: KJUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	13-03-2020	69.4	68.2
MARCH 2020	30-03-2020	68.6	66.2
TLV		75	70

COLONY: KJUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	13-03-2020	45.5	42.4
MARCH 2020	30-03-2020	44.5	41.9
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

MOHAN/ MAORI UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



MARCH-2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

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INDEX

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

INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

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

TSET REPORT NO.	RIN/TR/MARCH-20/A73	DATE OF ISSUE	15-04-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	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)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-03-2020	143	29	17	<10
31-03-2020	151	36	16	<10
TLV	300	60	120	120

PIT OFFICE- MOHAN: KMUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-03-2020	151	30	20	12
31-03-2020	145	39	19	11
TLV	300	60	120	120

COLONY- HEALTH CENTRE: KMUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-03-2020	152	38	19	11
31-03-2020	131	29	18	<10
TLV	100	60	80	80

AMBARA VILLAGE: KMUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-03-2020	165	33	18	11
31-03-2020	133	28	16	<10
TLV	100	60	80	80

Leetambhurne

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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Test Report

Air quality monitoring data

SAM OFFICE- AMBARA : KMUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-03-2020	185
31-03-2020	192
TLV	600

PIT OFFICE- MOHAN: KMUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-03-2020	174
31-03-2020	166
TLV	600

COLONY- HEALTH CENTRE: KMUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-03-2020	171
31-03-2020	159
TLV	200

AMBARA VILLAGE: KMUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-03-2020	180
31-03-2020	165
TLV	200


Lakshmi

SCIENTIFIC ASSISTANT

D. Sahu

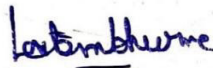
DEEPANSHU SAHU
MANAGER (ENV.)


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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH-20/W73	DATE OF ISSUE	15-04-2020
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
13-03-2020	6.6	46	36	<2
16-03-2020	6.1	44	40	<2
TLV	5.5 - 9.0	100	250	10


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

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

FAN HOUSE: KMUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	13-03-2020	69.6	67.5
MARCH 2020	30-03-2020	69.7	67.4
TLV		75	70

COLONY: KMUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	13-03-2020	45.7	43.6
MARCH 2020	30-03-2020	45.6	43.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

NANDAN UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



MARCH-2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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INDEX

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

INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	SAM OFFICE- NANDAN I UG:	KNUA1
2	PIT OFFICE- NANDAN II UG:	KNUA2
3	HEALTH CENTRE- NANDAN UG:	KNUA3
4	NANDAN WATER FILTER PLANT:	KNUA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE DISCHARGE:	KNUW1

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE UG II:	KNUN1
2	COLONY:	KNUN2

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH-20/A71	DATE OF ISSUE	15-04-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	NANDAN UG	SAMPLING PLAN : LQR 47	

SAM OFFICE- NANDAN I UG: KNUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-03-2020	177	29	19	15
29-03-2020	185	33	21	15
TLV	300	60	120	120

PIT OFFICE- NANDAN II UG: KNUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-03-2020	148	41	18	12
29-03-2020	142	39	22	16
TLV	300	60	120	120

HEALTH CENTRE- NANDAN UG: KNUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-03-2020	126	44	21	12
28-03-2020	111	35	18	<10
TLV	100	60	80	80

NANDAN WATER FILTER PLANT: KNUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-03-2020	183	45	17	11
28-03-2020	150	38	19	13
TLV	100	60	80	80

Latambhume

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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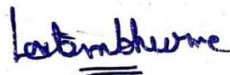
Air quality monitoring data

SAM OFFICE- NANDAN I UG: KNUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-03-2020	210
29-03-2020	222
TLV	600

PIT OFFICE- NANDAN II UG: KNUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-03-2020	213
29-03-2020	209
TLV	600

HEALTH CENTRE- NANDAN UG: KNUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-03-2020	179
28-03-2020	160
TLV	200

NANDAN WATER FILTER PLANT: KNUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-03-2020	223
28-03-2020	199
TLV	200



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)


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TSET REPORT NO.	RIN/TR/MARCH-20/W71	DATE OF ISSUE	15-04-2020
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
15-03-2020	7.4	42	40	<2
16-03-2020	7.2	38	36	<2
TLV	5.5 - 9.0	100	250	10


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MARCH

FAN HOUSE UG II: KNUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	13-03-2020	65.6	62.5
MARCH 2020	30-03-2020	64.7	60.5
TLV		75	70

COLONY: KNUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	13-03-2020	45.7	43.6
MARCH 2020	30-03-2020	45.6	42.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

NANDAN WASHERY

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



MARCH -2020

Environment Laboratory

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INDEX

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

INTRODUCTION

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

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

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH-20/A70	DATE OF ISSUE	15-04-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	NANDAN WASHERY	SAMPLING PLAN	LQR 47

SUBSTATION : KNWA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-03-2020	110	38	20	11
28-03-2020	119	40	21	12
TLV	300	60	120	120

SAM OFFICE- NANDAN I UG: KNWA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-03-2020	177	29	19	15
29-03-2020	185	33	21	15
TLV	300	60	120	120

COLONY-GUEST HOUSE: KNWA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-03-2020	143	33	19	15
28-03-2020	126	43	20	11
TLV	100	60	80	80

NANDAN WATER FILTER PLANT: KNWA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
08-03-2020	183	45	17	11
28-03-2020	150	38	19	13
TLV	100	60	80	80

Latimkume

SCIENTIFIC ASSISTANT

Deepanshu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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Test Report

Air quality monitoring data

SUBSTATION : KNWA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-03-2020	166
28-03-2020	180
TLV	600

SAM OFFICE- NANDAN I UG: KNWA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-03-2020	210
29-03-2020	222
TLV	600

COLONY-GUEST HOUSE: KNWA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-03-2020	194
28-03-2020	170
TLV	200

NANDAN WATER FILTER PLANT: KNWA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
08-03-2020	223
28-03-2020	199
TLV	200

Laximbhume

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D. Sahu

DEEPANSHU SAHU
MANAGER (ENV.)

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NOISE LEVEL DATA

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

WASHERY: KNWN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	13-03-2020	47.4	43.9
MARCH 2020	30-03-2020	46.5	43.2
TLV		75	70

COLONY: KNWN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	13-03-2020	45.6	42.7
MARCH 2020	30-03-2020	44.6	41.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

TANDSI UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



MARCH-2020

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INDEX

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

INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :


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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH-20/A79	DATE OF ISSUE	15-04-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] &PM-2.5		
NAME OF AREA	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 $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-03-2020	210	39	18	12
27-03-2020	219	50	20	16
TLV	300	60	120	120

LAMP ROOM: KTUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-03-2020	171	24	16	<10
27-03-2020	165	28	17	12
TLV	300	60	120	120

COLONY-NEAR HEALTH CENTRE: KTUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-03-2020	208	55	17	13
27-03-2020	171	38	15	10
TLV	100	60	80	80

JET HOSTEL: KTUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
07-03-2020	297	57	21	16
27-03-2020	250	49	22	17
TLV	100	60	80	80

Latambhume

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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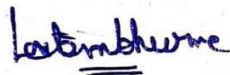
Air quality monitoring data

WORKSHOP : KTUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-03-2020	231
27-03-2020	245
TLV	600

LAMP ROOM: KTUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-03-2020	192
27-03-2020	201
TLV	600

COLONY-NEAR HEALTH CENTRE: KTUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-03-2020	235
27-03-2020	200
TLV	200

JET HOSTEL: KTUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
07-03-2020	342
27-03-2020	288
TLV	200




SCIENTIFIC ASSISTANT



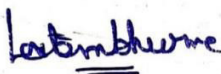
DEEPANSHU SAHU
MANAGER (ENV.)


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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH-20/W79	DATE OF ISSUE	15-04-2020
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
07-03-2020	7.2	30	40	<2
21-03-2020	7.4	32	36	<2
TLV	5.5 - 9.0	100	250	10


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 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MARCH

FAN HOUSE: KTUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	13-03-2020	70.1	68.6
MARCH 2020	30-03-2020	70.4	68.5
TLV		75	70

COLONY: KTUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	13-03-2020	43.9	40.1
MARCH 2020	30-03-2020	45.6	43.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

BARKUHI OC

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



MARCH -2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

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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 contribute 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 Air quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH-20/A57	DATE OF ISSUE	15-04-2020
NAME OF CUSTOMER	GM (ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] &PM-2.5		
NAME OF AREA	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 $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-03-2020	182	52	35	19
23-03-2020	178	45	36	18
TLV	300	60	120	120

SAM OFFICE: PBOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-03-2020	220	53	39	19
23-03-2020	239	51	38	18
TLV	300	60	120	120

CHANDAMETA WORKSHOP: PBOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-03-2020	182	44	34	19
23-03-2020	205	41	36	17
TLV	300	60	120	120

CENTRAL SCHOOL: PBOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-03-2020	123	48	36	18
23-03-2020	144	43	34	17
TLV	100	60	80	80

J. Shan
SCIENTIFIC ASSISTANT

Deepanshu Sahu
DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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Test Report

Air quality monitoring data

MANAGER OFFICE : PBOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-03-2020	210
23-03-2020	225
TLV	600

SAM OFFICE: PBOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-03-2020	265
23-03-2020	276
TLV	600

CHANDAMETA WORKSHOP: PBOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-03-2020	223
23-03-2020	245
TLV	600

CENTRAL SCHOOL: PBOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-03-2020	167
23-03-2020	185
TLV	200

J. Shrivastava

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
MANAGER (ENV.)

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MARCH

NEAR BARKUHI HOSPITAL: PBON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	11-03-2020	48.6	45.7
MARCH 2020	17-03-2020	49.7	45.4
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

CHANDAMETA WORKSHOP

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



MARCH-2020

Environment Laboratory

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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

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 Air quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH-20/A58	DATE OF ISSUE	15-04-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] &PM-2.5		
NAME OF AREA	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 $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-03-2020	182	44	34	19
23-03-2020	205	41	36	17
TLV	300	60	120	120

J. Shary
SCIENTIFIC ASSISTANT

Deepanshu Sahu
DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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Test Report

Air quality monitoring data

CHANDAMETA WORKSHOP : PCWA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-03-2020	223
23-03-2020	245
TLV	600



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)

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NOISE LEVEL DATA

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

NEAR CHANDAMETA WORKSHOP: PCWN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	11-03-2020	53.9	45.7
MARCH 2020	17-03-2020	52.8	46.5
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

CHINDA OC

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 800004



MARCH -2020

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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

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
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TSET REPORT NO.	RIN/TR/MARCH-20/A64	DATE OF ISSUE	15-04-2020
NAME OF CUSTOMER	GM (ENV.),WCL,(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	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 $\mu\text{g}/\text{m}^3$)			
	PM₁₀	PM_{2.5}	NO_x	SO₂
DETECTION LIMIT	5	2	6	10
11-03-2020	191	49	36	19
22-03-2020	210	48	34	17
TLV	300	60	120	120

CHINDA OC - SITE: PCOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM₁₀	PM_{2.5}	NO_x	SO₂
DETECTION LIMIT	5	2	6	10
11-03-2020	241	51	34	18
22-03-2020	265	53	38	19
TLV	300	60	120	120

CHINDA VILLAGE: PCOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM₁₀	PM_{2.5}	NO_x	SO₂
DETECTION LIMIT	5	2	6	10
11-03-2020	142	42	28	17
21-03-2020	139	38	28	16
TLV	100	60	80	80

CHINDA COLONY: PCOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM₁₀	PM_{2.5}	NO_x	SO₂
DETECTION LIMIT	5	2	6	10
11-03-2020	121	44	28	17
21-03-2020	144	36	28	17
TLV	100	60	80	80

J. Shan

SCIENTIFIC ASSISTANT

Deepanshu Sahu

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Test Report

Air quality monitoring data

SAM OFFICE: PCOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-03-2020	232
22-03-2020	256
TLV	600

CHINDA OC - SITE: PCOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-03-2020	282
22-03-2020	310
TLV	600

CHINDA VILLAGE: PCOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-03-2020	180
21-03-2020	165
TLV	200

CHINDA COLONY: PCOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-03-2020	165
21-03-2020	172
TLV	200

J. Shary

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Deepanshu Sahu

DEEPANSHU SAHU
MANAGER (ENV.)

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TSET REPORT NO.	RIN/TR/MARCH-20/W64	DATE OF ISSUE	15-04-2020
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
12-03-2020	7.2	12	20	<2
21-03-2020	8.5	22	32	<2
TLV	5.5 - 9.0	100	250	10

J. Shany

SCIENTIFIC ASSISTANT

Deepanshu Sahu

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MARCH

NEAR MANAGER OFFICE: PCON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	11-03-2020	47.6	45.2
MARCH 2020	17-03-2020	48.3	45.6
TLV		75	70

COLONY: PCON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	11-03-2020	45.3	43.3
MARCH 2020	17-03-2020	46.8	42.1
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

GANPATI UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



MARCH-2020

Environment Laboratory

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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

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
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TSET REPORT NO.	RIN/TR/MARCH-20/A60	DATE OF ISSUE	15-04-2020
NAME OF CUSTOMER	GM (ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	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 $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-03-2020	210	48	36	19
20-03-2020	205	46	38	17
TLV	300	60	120	120

MANAGER OFFICE: PGUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-03-2020	173	38	28	18
22-03-2020	185	37	26	16
TLV	300	60	120	120

COLONY EDC- DISPENSARY: PGUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-03-2020	132	39	28	17
21-03-2020	141	37	27	16
TLV	100	60	80	80

GUEST HOUSE- PARASIA: PGUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-03-2020	141	36	26	16
22-03-2020	152	38	28	18
TLV	100	60	80	80

J. Shan

SCIENTIFIC ASSISTANT

Deepanshu Sahu

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Test Report

Air quality monitoring data

LAMP ROOM : PGUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-03-2020	245
21-03-2020	256
TLV	600

MANAGER OFFICE: PGUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-03-2020	215
22-03-2020	226
TLV	600

COLONY EDC- DISPENSARY: PGUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-03-2020	174
21-03-2020	185
TLV	200

GUEST HOUSE- PARASIA: PGUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-03-2020	185
22-03-2020	199
TLV	200



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MARCH

FAN HOUSE: PGUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	11-03-2020	42.6	41.2
MARCH 2020	17-03-2020	42.8	41.6
TLV		75	70

COLONY: PGUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	11-03-2020	46.6	42.8
MARCH 2020	17-03-2020	43.5	42.1
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

JAMUNIYA UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



MARCH -2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

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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

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
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TSET REPORT NO.	RIN/TR/MARCH-20/A69	DATE OF ISSUE	15-04-2020
NAME OF CUSTOMER	GM (ENV) WCL,(HQ) NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	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 µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-03-2020	241	48	36	18
18-03-2020	236	48	38	17
TLV	300	60	120	120

SUBSTATION: PJUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-03-2020	242	53	39	19
18-03-2020	272	51	38	18
TLV	300	60	120	120

JAMUNIYA VILLAGE: PJUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-03-2020	132	39	28	17
18-03-2020	132	37	27	17
TLV	100	60	80	80

J. Shary

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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Test Report

Air quality monitoring data


MANAGER OFFICE : PJUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-03-2020	273
18-03-2020	285
TLV	600

SUBSTATION: PJUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-03-2020	286
18-03-2020	310
TLV	600

JAMUNIYA VILLAGE: PJUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-03-2020	174
18-03-2020	165
TLV	200




SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)

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

TSET REPORT NO.	RIN/TR/MARCH -20/W69	DATE OF ISSUE	15-04-2020
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
15-03-2020	7.5	22	32	<2
18-03-2020	8.3	12	20	<2
TLV	5.5 - 9.0	100	250	10

J. Shan
SCIENTIFIC ASSISTANT

Deepanshu Sahu
DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MARCH

MANAGER OFFICE: PJUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	43.8	41.7
MARCH 2020	18-03-2020	42.5	41.6
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

MAHADEOPURI UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



MARCH-2020

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

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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

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/MARCH-20/A59	DATE OF ISSUE	15-04-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	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 µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-03-2020	173	38	28	18
22-03-2020	185	37	26	16
TLV	300	60	120	120

LAMP ROOM: PMUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-03-2020	210	48	36	17
20-03-2020	205	46	38	17
TLV	300	60	120	120

GUEST HOUSE PARASIA: PMUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-03-2020	141	36	26	16
22-03-2020	152	38	28	18
TLV	100	60	80	80

COLONY EDC- DISPENSARY: PMUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-03-2020	132	39	28	17
21-03-2020	141	37	27	16
TLV	100	60	80	80

J. Shyam

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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Test Report

Air quality monitoring data

MANAGER OFFICE : PMUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-03-2020	215
22-03-2020	226
TLV	600

LAMP ROOM: PMUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-03-2020	245
20-03-2020	256
TLV	600

GUEST HOUSE PARASIA: PMUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-03-2020	185
22-03-2020	199
TLV	200

COLONY EDC- DISPENSARY: PMUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-03-2020	174
21-03-2020	185
TLV	200



SCIENTIFIC ASSISTANT



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MANAGER (ENV.)

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

TSET REPORT NO.	RIN/TR/MARCH-20/W59	DATE OF ISSUE	15-04-2020
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
12-03-2020	6.8	18	26	<2
21-03-2020	7.2	18	28	<2
TLV	5.5 - 9.0	100	250	10

J. Shary
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Deepanshu Sahu
DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MARCH

FAN HOUSE: PMUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	11-03-2020	69.8	67.7
MARCH 2020	17-03-2020	70.2	68.5
TLV		75	70

COLONY: PMUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	11-03-2020	44.9	43.6
MARCH 2020	17-03-2020	43.7	42.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

NEHARIA UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



MARCH 2020

Environment Laboratory

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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/MARCH-20/A67	DATE OF ISSUE	15-04-2020
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		
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 $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-03-2020	232	52	39	19
17-03-2020	219	48	38	18
TLV	300	60	120	120

LAMP ROOM/ SUBSTATION: PNUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-03-2020	243	48	36	18
16-03-2020	238	49	38	19
TLV	300	60	120	120

NEHARIA VILLAGE: PNUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-03-2020	142	38	28	16
16-03-2020	120	36	26	17
TLV	100	60	80	80

BOKAI TOWNSHIP: PNUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-03-2020	154	44	32	17
16-03-2020	172	46	34	18
TLV	100	60	80	80

J. Shan

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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Test Report

Air quality monitoring data

SAM OFFICE : PNUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-03-2020	275
17-03-2020	265
TLV	600

LAMP ROOM/ SUBSTATION: PNUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-03-2020	285
16-03-2020	275
TLV	600

NEHARIA VILLAGE: PNUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-03-2020	173
16-03-2020	150
TLV	200

BOKAI TOWNSHIP: PNUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-03-2020	190
16-03-2020	210
TLV	200



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
MANAGER (ENV.)


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---	---	---

TSET REPORT NO.	RIN/TR/MARCH -20/W67	DATE OF ISSUE	15-04-2020
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
13-03-2020	7.2	26	36	<2
17-03-2020	8.6	14	24	<2
TLV	5.5 - 9.0	100	250	10


SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MARCH

FAN HOUSE: PNUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	70.1	68.7
MARCH 2020	18-03-2020	70.1	68.4
TLV		75	70

COLONY: PNUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	42.6	41.8
MARCH 2020	18-03-2020	43.5	42.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

NEW SETHIA OC

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



MARCH-2020

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

CMPDI

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INDEX

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

INTRODUCTION

New 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/MARCH-20/A65	DATE OF ISSUE	15-04-2020
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		
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)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-03-2020	232	53	39	19
21-03-2020	232	46	36	18
TLV	300	60	120	120

SAM OFFICE: PSOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-03-2020	191	49	36	19
22-03-2020	210	48	34	17
TLV	300	60	120	120

CHINDA VILLAGE: PSOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-03-2020	142	42	26	16
21-03-2020	139	38	28	
TLV	100	60	80	80

CHINDA COLONY: PSOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-03-2020	121	44	28	17
21-03-2020	144	36	28	17
TLV	100	60	80	80

J. Shany
SCIENTIFIC ASSISTANT

Deepanshu Sahu
DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
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Test Report

Air quality monitoring data

NEW SETHIA OC SITE: PSOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-03-2020	275
21-03-2020	285
TLV	600

SAM OFFICE: PSOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-03-2020	232
22-03-2020	256
TLV	600

CHINDA VILLAGE: PSOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-03-2020	180
21-03-2020	165
TLV	200

CHINDA COLONY: PSOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-03-2020	165
21-03-2020	172
TLV	200

J. Shrivastava

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

TSET REPORT NO.	RIN/TR/MARCH-20/W65	DATE OF ISSUE	15-04-2020
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
11-03-2020	7.5	14	24	<2
21-03-2020	8.3	26	36	<2
TLV	5.5 - 9.0	100	250	10

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ENVIRONMENTAL MONITORING REPORT

SHIVPURI OC

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



MARCH-2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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

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/MARCH-20/A63	DATE OF ISSUE	15-04-2020
NAME OF CUSTOMER	GM (ENV.), WCL (HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	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 µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-03-2020	271	44	32	18
19-03-2020	285	53	38	19
TLV	300	60	120	120

SUBSTATION-VISHNUPURI UG: PSOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-03-2020	224	48	37	19
19-03-2020	244	49	36	16
TLV	300	60	120	120

COLONY GUEST HOUSE SHIVPURI: PSOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-03-2020	130	38	28	17
19-03-2020	149	42	32	18
TLV	100	60	80	80

CHINDA VILLAGE: PSOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-03-2020	142	42	26	16
21-03-2020	139	38	28	18
TLV	100	60	80	80

J. Shrivastava

SCIENTIFIC ASSISTANT

Deepanshu Sahu

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Test Report

Air quality monitoring data

SITE OFFICE: PSOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-03-2020	310
19-03-2020	320
TLV	600

SUBSTATION-VISHNUPURI UG: PSOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-03-2020	262
19-03-2020	285
TLV	600

CHINDA VILLAGE: PCOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-03-2020	180
19-03-2020	165
TLV	200

CHINDA COLONY: PCOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-03-2020	165
21-03-2020	172
TLV	200




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

TSET REPORT NO.	RIN/TR/MARCH-20/W63	DATE OF ISSUE	15-04-2020
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
12-03-2020	6.9	26	36	<2
19-03-2020	8.3	18	28	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MARCH

NEAR MANAGER OFFICE: PSON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	50.2	45.6
MARCH 2020	18-03-2020	46.4	42.5
TLV		75	70

COLONY: PSON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	46.9	43.2
MARCH 2020	18-03-2020	46.4	42.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

THESGORA MATHANI -UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



MARCH-2020

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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/MARCH-20/A66	DATE OF ISSUE	15-04-2020
NAME OF CUSTOMER	GM(ENV.)WCL (HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] &PM-2.5		
NAME OF AREA	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 $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-03-2020	122	38	26	16
17-03-2020	135	36	26	16
TLV	100	60	80	80

SAM OFFICE: PTUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-03-2020	224	48	36	19
19-03-2020	232	48	38	18
TLV	300	60	120	120

MANAGER OFFICE- MATHANI: PTUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-03-2020	195	48	36	18
17-03-2020	190	42	36	17
TLV	300	60	120	120

JHURE COLONY- FILTER PLANT PTUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
13-03-2020	150	39	28	16
17-03-2020	154	38	28	16
TLV	100	60	80	80


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 AUTHORIZED SIGNATORY

Test Report

Air quality monitoring data

MATHANI VILLAGE: PTUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-03-2020	165
17-03-2020	152
TLV	200

SAM OFFICE: PTUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-03-2020	266
19-03-2020	265
TLV	600

MANAGER OFFICE- MATHANI: PTUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-03-2020	245
17-03-2020	235
TLV	600

JHURE COLONY- FILTER PLANT PTUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
13-03-2020	190
17-03-2020	182
TLV	200


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D. Sahu

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

TSET REPORT NO.	RIN/TR/MARCH-20/W66	DATE OF ISSUE	15-04-2020
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
13-03-2020	6.8	16	28	<2
19-03-2020	8.4	16	28	<2
TLV	5.5 - 9.0	100	250	10


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ENVIRONMENTAL MONITORING REPORT

URDHAN OC

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



MARCH-2020

Environment Laboratory

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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

UrdhanOC project is located in Chhindwara district of Madhya Pradesh. The project is administered by Pencha Area of Western Coalfields Limited. The drainage of area is mainly controlled by the Perennial Gunorriveer 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/MARCH-20/A68	DATE OF ISSUE	15-04-2020
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		
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 µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-03-2020	221	51	38	19
16-03-2020	217	49	39	18
TLV	300	60	120	120

URDHAN VILLAGE: PUOA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
15-03-2020	108	28	26	16
18-03-2020	110	32	24	16
TLV	100	60	80	80

NEHARIA VILLAGE: PUOA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-03-2020	142	38	28	16
16-03-2020	120	36	26	17
TLV	100	60	80	80

BOKAI TOWNSHIP: PUOA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
14-03-2020	154	44	32	17
16-03-2020	172	46	34	18
TLV	100	60	80	80

J. Shrivastava

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Test Report

Air quality monitoring data

URDHAN MANAGER OFFICE: PUOA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-03-2020	265
16-03-2020	255
TLV	600

URDHAN VILLAGE: PUOA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
15-03-2020	138
18-03-2020	145
TLV	200

NEHARIA VILLAGE: PUOA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-03-2020	173
16-03-2020	150
TLV	200

BOKAI TOWNSHIP: PUOA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
14-03-2020	190
16-03-2020	210
TLV	200



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MARCH

NEAR MANGER OFFICE: PUON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	12-03-2020	45.8	42.7
MARCH 2020	18-03-2020	45.7	42.6
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

VISHNUPURI -II UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



MARCH -20

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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

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
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TSET REPORT NO.	RIN/TR/MARCH-20/A62	DATE OF ISSUE	15-04-2020
NAME OF CUSTOMER	GM (ENV) WCL,(HQ) NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] &PM-2.5		
NAME OF AREA	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 µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-03-2020	232	52	38	19
20-03-2020	262	53	37	19
TLV	300	60	120	120

SUBSTATION: PV2UA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-03-2020	224	48	37	19
19-03-2020	244	49	36	16
TLV	300	60	120	120

COLONY GUEST HOUSE SHIVPURI: PV2UA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-03-2020	130	38	28	17
19-03-2020	149	42	32	18
TLV	100	60	80	80

CHINDA VILLAGE: PV2UA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-03-2020	142	42	26	16
21-03-2020	139	38	28	16
TLV	100	60	80	80

J. Shrivastava

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Deepanshu Sahu

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Test Report

Air quality monitoring data

SAM OFFICE: PV2UA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-03-2020	275
20-03-2020	295
TLV	600

SUBSTATION: PV2UA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-03-2020	262
19-03-2020	285
TLV	600

COLONY GUEST HOUSE SHIVPURI: PV2UA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-03-2020	175
19-03-2020	195
TLV	200

CHINDA VILLAGE: PV2UA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-03-2020	180
21-03-2020	165
TLV	200


J. Shan

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D. Sahu

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MANAGER (ENV.)


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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH-20/W62	DATE OF ISSUE	15-04-2020
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
12-03-2020	7.1	22	32	<2
20-03-2020	8.2	16	24	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

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

FAN HOUSE UG-I: PV2UN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	11-03-2020	69.4	67.1
MARCH 2020	17-03-2020	70.3	68.7
TLV		75	70

COLONY (VISHNUPURI -I): PV2UN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	11-03-2020	43.6	41.7
MARCH 2020	17-03-2020	52.1	45.6
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

VISHNUPURI -I UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



MARCH-20

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

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REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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

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 contributes 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 quality monitoring data	Air	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH-20/A61	DATE OF ISSUE	15.04.2020
NAME OF CUSTOMER	GM (ENV.), WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] & PM-2.5		
NAME OF AREA	PENCH AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	VISHNUPURI -I UG	SAMPLING PLAN : LQR 47	

SAM OFFICE: PV1UA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-03-2020	232	52	38	19
20-03-2020	262	53	37	19
TLV	300	60	120	120

SUBSTATION: PV1UA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-03-2020	224	48	37	19
19-03-2020	244	49	36	16
TLV	300	60	120	120

COLONY GUEST HOUSE SHIVPURI: PV1UA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
12-03-2020	130	38	28	17
19-03-2020	149	42	32	18
TLV	100	60	80	80

CHINDA VILLAGE: PV1UA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
11-03-2020	142	42	26	16
21-03-2020	139	38	28	16
TLV	100	60	80	80

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Test Report

Air quality monitoring data

SAM OFFICE: PV1UA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-03-2020	275
20-03-2020	295
TLV	600

SUBSTATION: PV1UA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-03-2020	262
19-03-2020	285
TLV	600

COLONY GUEST HOUSE SHIVPURI: PV1UA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
12-03-2020	175
19-03-2020	195
TLV	200

CHINDA VILLAGE: PV1UA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
11-03-2020	180
21-03-2020	165
TLV	200

J. Shany

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MANAGER (ENV.)

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MARCH

COLONY (VISHNUPURI -I): PV1UN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	11-03-2020	43.6	41.7
MARCH 2020	17-03-2020	52.1	45.6
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

CHATTARPUR-I & II UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



MARCH 2020

Environment Laboratory

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INDEX

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

INTRODUCTION

Chattarpur - I & II UG Project is located in Betul district of Madhya Pradesh. The project is administered by Pathekhera Area of Western Coalfields Limited. Drainage is mainly controlled by two / three drains, which drains into the Tawa river. The climate of the area is tropical. Transportation roads, agricultural and local activities, vehicular traffic etc also contributes to the pollution.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	SUBSTATION- CHATTARPUR I UG:	PKCUA1
2	SAM OFFICE:	PKCUA2
3	SUBSTATION- CHATTARPUR II UG:	PKCUA3
4	CHATTARPUR VILLAGE:	PKCUA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE DISCHARGE-I UG:	PKCUW1
2	MINE DISCHARGE-II UG:	PKCUW2

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE- I UG:	PKCUN1
2	FAN HOUSE- II UG:	PKCUN2
3	COLONY:	PKCUN3

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

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

TSET REPORT NO.	RIN/TR/MARCH -20/A81	DATE OF ISSUE	15-04-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] &PM-2.5		
NAME OF AREA	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 $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-03-2020	106	37	32	11
20-03-2020	103	40	36	13
TLV	300	60	120	120

SAM OFFICE: PKCUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-03-2020	109	39	36	15
20-03-2020	126	46	38	12
TLV	300	60	120	120

SUBSTATION- CHATTARPUR II UG: PKCUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-03-2020	118	45	32	12
20-03-2020	96	36	32	10
TLV	300	60	120	120

CHATTARPUR VILLAGE: PKCUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
06-03-2020	74	30	26	<10
20-03-2020	92	34	28	<10
TLV	100	60	80	80



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Test Report

Air quality monitoring data

SUBSTATION- CHATTARPUR I UG: PKCUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-03-2020	193
20-03-2020	205
TLV	600

SAM OFFICE: PKCUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-03-2020	218
20-03-2020	238
TLV	600

SUBSTATION- CHATTARPUR II UG: PKCUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-03-2020	228
20-03-2020	168
TLV	600

CHATTARPUR VILLAGE: PKCUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
06-03-2020	149
20-03-2020	185
TLV	200



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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH -20/W81	DATE OF ISSUE	15-04-2020
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	4	2
06-03-2020	7.9	28	36	<2
20-03-2020	8.1	30	28	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

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

FAN HOUSE- I UG: PKCUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	05-03-2020	69.7	68.5
MARCH 2020	28-03-2020	69.7	68.4
TLV		75	70
FAN HOUSE- II UG: PKCUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	05-03-2020	69.9	68.1
MARCH 2020	28-03-2020	69.5	68.3
TLV		75	70

COLONY: PKCUN3			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	05-03-2020	45.4	42.9
MARCH 2020	28-03-2020	45.2	41.1
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

SARNI UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



MARCH -2020

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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/MARCH -20/A83	DATE OF ISSUE	15-04-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] &PM-2.5		
NAME OF AREA	PATHAKHERA AREA	SAMPLING METHOD :	LSOP 4
NAME OF PROJECT	SARNI UG	SAMPLING PLAN :	LQR 47

SUBSTATION SARNI UG: PKSUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
03-03-2020	87	34	29	<10
19-03-2020	95	30	26	<10
TLV	300	60	120	120

NEAR DY. CME OFFICE: PKSUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
03-03-2020	90	36	31	<10
19-03-2020	79	29	24	<10
TLV	300	60	120	120

GM OFFICE ENTRANCE GATE: PKSUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
05-03-2020	84	33	27	<10
24-03-2020	90	36	30	10
TLV	100	60	80	80

PATHAKHERA COLONY: PKSUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
03-03-2020	77	30	26	<10
19-03-2020	96	32	24	<10
TLV	100	60	80	80



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Test Report

Air quality monitoring data

SUBSTATION SARNI UG: PKSUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
03-03-2020	196
19-03-2020	177
TLV	600

NEAR DY. CME OFFICE: PKSUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
03-03-2020	179
19-03-2020	156
TLV	600

GM OFFICE ENTRANCE GATE: PKSUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
05-03-2020	156
24-03-2020	170
TLV	200


PATHAKHERA COLONY: PKSUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
03-03-2020	166
19-03-2020	189
TLV	200



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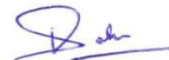
Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH -20/W83	DATE OF ISSUE	15-04-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER 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: 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
04-03-2020	7.73	34	40	<2
19-03-2020	7.92	28	44	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

NAME OF AREA: PATHAKHERA AREA YEAR: 2020
NAME OF PROJECT: SARNI UG MONTH: MARCH

FAN HOUSE: PKSUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	05-03-2020	69.2	67.5
MARCH 2020	28-03-2020	70.6	68.2
TLV		75	70

COLONY: PKSUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	05-03-2020	46.1	44.2
MARCH 2020	28-03-2020	45.4	43.1
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

SHOBHAPUR UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



MARCH -2020

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

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

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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
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TSET REPORT NO.	RIN/TR/MARCH -20/A82	DATE OF ISSUE	15-04-2020
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		
NAME OF AREA	PATHAKHERA AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	SHOBHAPUR UG	SAMPLING PLAN : LQR 47	


SAM OFFICE: PKSUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
05-03-2020	100	40	34	13
18-03-2020	86	35	32	<10
TLV	300	60	120	120

SUBSTATION: PKSUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
05-03-2020	106	43	38	16
19-03-2020	118	56	48	<10
TLV	300	60	120	120

SHOBHAPUR VILLAGE: PKSUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
04-03-2020	80	33	26	<10
16-03-2020	98	38	34	<10
TLV	100	60	80	80

SHOBHAPUR COLONY: PKSUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
05-03-2020	95	37	32	11
18-03-2020	84	32	27	<10
TLV	100	60	80	80


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Test Report

Air quality monitoring data

SAM OFFICE: PKSUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
05-03-2020	196
18-03-2020	175
TLV	600

SUBSTATION: PKSUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
05-03-2020	209
19-03-2020	215
TLV	600

SHOBHAPUR VILLAGE: PKSUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
04-03-2020	161
16-03-2020	182
TLV	200

SHOBHAPUR COLONY: PKSUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
05-03-2020	184
18-03-2020	164
TLV	200



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TSET REPORT NO.	RIN/TR/MARCH-20/W82	DATE OF ISSUE	15-04-2020
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
05-03-2020	8.1	26	32	<2
18-03-2020	7.56	32	40	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

NAME OF AREA: PATHAKHERA AREA **YEAR: 2020**
NAME OF PROJECT: SHOBHAPUR UG **MONTH: MARCH**

FAN HOUSE: PKSUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	05-03-2020	70.1	68.2
MARCH 2020	28-03-2020	69.9	67.2
TLV		75	70

COLONY: PKSUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	05-03-2020	45.5	44.6
MARCH 2020	28-03-2020	46.4	43.5
TLV		44.5	45

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ENVIRONMENTAL MONITORING REPORT

TAWA II UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



MARCH 2020

Environment Laboratory

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INDEX

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

INTRODUCTION

Tawa UG Project is located in Betul district of Madhya Pradesh. The project is administered by Pathakhera Area of Western Coalfields Limited. The drainage of the area is mainly controlled by Tawa river. A number of seasonal nullahs also flow through the area. The climate of the area is tropical. Transportation roads, agricultural and local activities, vehicular traffic etc also contributes to the pollution

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER OFFICE- TAWA II:	PKT2UA1
2	SAM OFFICE:	PKT2UA2
3	MPEB COLONY:	PKT2UA3
4	HIRA PALLA/BHAGIKHAAPA VILLAGE:	PKT2UA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE DISCHARGE:	PKTUW1

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE:	PKTUN1
2	COLONY:	PKTUN2

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report quality monitoring data	Air	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH -20/A85	DATE OF ISSUE	15-04-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] &PM-2.5		
NAME OF AREA	PATHAKHERA AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	TAWA II UG	SAMPLING PLAN : LQR 47	


MANAGER OFFICE- TAWA II: PKT2UA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
04-03-2020	89	38	33	10
19-03-2020	94	40	35	12
TLV	300	60	120	120

SAM OFFICE: PKT2UA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
04-03-2020	119	36	31	11
16-03-2020	106	40	32	11
TLV	300	60	120	120

MPEB COLONY: PKT2UA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
03-03-2020	88	30	22	<10
17-03-2020	96	32	26	<10
TLV	100	60	80	80

HIRA PALLA/BHAGIKHAAPA VILLAGE: PKT2UA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
04-03-2020	75	27	24	<10
17-03-2020	88	36	30	10
TLV	100	60	80	80


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Test Report

Air quality monitoring data

MANAGER OFFICE- TAWA II: PKT2UA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
04-03-2020	194
19-03-2020	177
TLV	600

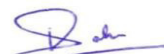
SAM OFFICE: PKT2UA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
04-03-2020	219
16-03-2020	203
TLV	600

MPEB COLONY: PKT2UA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
03-03-2020	150
17-03-2020	182
TLV	200

HIRA PALLA/BHAGIKHAAPA VILLAGE: PKT2UA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
04-03-2020	136
17-03-2020	159
TLV	200



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TSET REPORT NO.	RIN/TR/MARCH-20/W85	DATE OF ISSUE	15-04-2020
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
04-03-2020	7.64	22	36	<2
19-03-2020	7.3	32	24	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

NAME OF AREA: PATHAKHERA AREA **YEAR: 2020**
NAME OF PROJECT: TAWA II UG **MONTH: MARCH**

FAN HOUSE: PKTUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	05-03-2020	69.6	67.4
MARCH 2020	28-03-2020	69.4	67.2
TLV		75	70

COLONY: PKTUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	05-03-2020	44.5	42.1
MARCH 2020	28-03-2020	46.2	43.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

TAWA UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



MARCH 2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

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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

Tawa UG Project is located in Betul district of Madhya Pradesh. The project is administered by Pathakhera Area of Western Coalfields Limited. The drainage of the area is mainly controlled by Tawa river. A number of seasonal nullahs also flow through the area. The climate of the area is tropical. Transportation roads, agricultural and local activities, vehicular traffic etc also contributes to the pollution

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	SAM OFFICE:	PKTUA1
2	MANAGER OFFICE- TAWA II:	PKTUA2
3	MPEB COLONY:	PKTUA3
4	HIRA PALLA/BHAGIKHAAPA VILLAGE:	PKTUA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE DISCHARGE:	PKTUW1

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE:	PKTUN1
2	COLONY:	PKTUN2

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/MARCH-20/A84	DATE OF ISSUE	15.04.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)] &PM-2.5		
NAME OF AREA	PATHAKHERA AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	TAWA UG	SAMPLING PLAN : LQR 47	

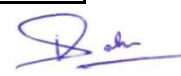
SAM OFFICE: PKTUA1				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
04-03-2020	119	36	31	11
16-03-2020	106	40	32	11
TLV	300	60	120	120

MANAGER OFFICE- TAWA II: PKTUA2				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
04-03-2020	89	38	33	10
19-03-2020	94	40	35	12
TLV	300	60	120	120

MPEB COLONY: PKTUA3				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
03-03-2020	88	30	22	<10
17-03-2020	96	32	26	<10
TLV	100	60	80	80

HIRA PALLA/BHAGIKHAAPA VILLAGE: PKTUA4				
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	2	6	10
04-03-2020	75	27	24	<10
17-03-2020	88	36	30	10
TLV	100	60	80	80


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Test Report

Air quality monitoring data

SAM OFFICE: PKTUA1	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
04-03-2020	219
16-03-2020	203
TLV	600

MANAGER OFFICE- TAWA II: PKTUA2	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
04-03-2020	194
19-03-2020	177
TLV	600

MPEB COLONY: PKTUA3	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
03-03-2020	150
17-03-2020	182
TLV	200


HIRA PALLA/BHAGIKHAAPA VILLAGE: PKTUA4	
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)
	SPM
DETECTION LIMIT	5
04-03-2020	136
17-03-2020	159
TLV	200



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TSET REPORT NO.	RIN/TR/MARCH-20/A84	DATE OF ISSUE	15.04.2020
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
03-03-2020	7.3	30	40	<2
20-03-2020	7.64	24	32	<2
TLV	5.5 - 9.0	100	250	10



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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

NOISE LEVEL DATA

NAME OF AREA: PATHAKHERA AREA
NAME OF PROJECT: TAWA UG

YEAR: 2020
MONTH: MARCH

FAN HOUSE: PKTUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	05-03-2020	69.4	68.8
MARCH 2020	28-03-2020	70.1	68.1
TLV		75	70

COLONY: PKTUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MARCH 2020	05-03-2020	44.5	42.1
MARCH 2020	28-03-2020	46.2	43.4
TLV		55	45