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ENVIRONMENTAL MONITORING REPORT

BALLARPUR OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



JANUARY -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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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 quality monitoring data	Air	 TC-7102
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TEST REPORT NO.	RIN/TR/JANUARY -20/A20	DATE OF ISSUE	29-02-20
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	BALLARPUR AREA	SAMPLING METHOD :	LSOP 4
NAME OF PROJECT	BALLARPUR OC	SAMPLING PLAN :	LQR 47

MANAGER OFFICE- BALLARPUR UG: BBOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-01-20	136	82	46	28	19
24-01-20	158	96	58	27	16
TLV	600	300	60	120	120

SUBSTATION: BBOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-01-20	212	124	76	28	16
24-01-20	210	138	92	28	13
TLV	600	300	60	120	120

PREMISES OF SUB AREA OFFICE: BBOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-01-20	221	134	82	26	14
24-01-20	218	142	68	21	13
TLV	600	300	60	120	120

FILTER PLANT COLONY: BBOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-01-20	150	78	38	27	14
24-01-20	160	92	52	19	10
TLV	200	100	60	80	80



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DEEPANSHU SAHU
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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
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TEST REPORT NO.	RIN/TR/JANUARY -20/W20	DATE OF ISSUE	29-02-20
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
NAME OF AREA	BALLARPUR AREA	SAMPLING METHOD :	LSOP 5
NAME OF PROJECT	BALLARPUR OC	SAMPLING PLAN :	LQR 47

MINE WATER DISCHARGE: BBOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
12-01-20	7.32	40	36	<2
24-01-20	7.37	38	32	<2
TLV	5.5 - 9.0	100	250	10

ETP DISCHARGE: BBOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
12-01-20	7.42	34	28	<2
24-01-20	7.68	56	48	<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: JANUARY

CHP: BBON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	09-01-20	55.7	55.6
JAN 2020	20-01-20	49.3	48.7
TLV		75	70

COLONY (BALLARPUR UG): BBON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	09-01-20	42.7	42.9
JAN 2020	20-01-20	43.9	42.6
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

BALLARPUR UG

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



Jan-20

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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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TEST REPORT NO.	RIN/TR/JANUARY -20/A19	DATE OF ISSUE	29-02-20
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	BALLARPUR AREA	Sampling Method :	LSOP 4
NAME OF PROJECT	BALLARPUR UG	Sampling Plan :	LQR 47


MANAGER OFFICE- BALLARPUR UG: BBUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-01-20	136	82	46	28	19
24-01-20	158	96	58	27	16
TLV	600	300	60	120	120

SUBSTATION: BBUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-01-20	212	124	76	28	16
24-01-20	210	138	92	28	13
TLV	600	300	60	120	120


PREMISES OF SUB AREA OFFICE: BBUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-01-20	221	134	82	26	14
24-01-20	218	142	68	21	13
TLV	600	300	60	120	120

FILTER PLANT COLONY: BBUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-01-20	150	78	38	27	14
24-01-20	160	92	52	19	10
TLV	200	100	60	80	80


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TEST REPORT NO.	RIN/TR/JANUARY -20/W19	DATE OF ISSUE	29-02-20
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
NAME OF AREA	BALLARPUR AREA	Sampling Method	:LSOP 5
NAME OF PROJECT	BALLARPUR UG	Sampling Method	:LQR 47

MINE WATER DISCHARGE: BBUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
12-01-20	7.37	36	32	<2
24-01-20	7.37	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: BALLARPUR UG MONTH: JANUARY

FAN HOUSE: BBUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	09-01-20	72.6	72.4
JAN 2020	20-01-20	70.2	69.4
TLV		75	70

COLONY: BBUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	09-01-20	42.7	42.3
JAN 2020	20-01-20	43.9	42.6
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

GOURI- I& II (A) OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



JANUARY 2020



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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
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TEST REPORT NO.	RIN/TR/JANUARY -20/A21	DATE OF ISSUE	29-02-20
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	BALLARPUR AREA	Sampling Method :	LSOP 4
NAME OF PROJECT	GOURI- I& II (A) OC	Sampling Plan :	LQR 47


MANAGER OFFICE- GOURI - I O/C: BGOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-01-20	390	226	114	25	16
21-01-20	358	204	93	26	21
TLV	600	300	60	120	120

SAM OFFICE GOURI- SUB AREA: BGOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-01-20	384	212	106	24	17
21-01-20	391	229	98	27	18
TLV	600	300	60	120	120


GOURI COLONY/ FILTER PLANT: BGOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-01-20	154	86	48	22	12
21-01-20	176	98	56	28	14
TLV	200	100	60	80	80

GOURI VILLAGE: BGOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-01-20	156	88	48	28	18
22-01-20	173	97	62	24	14
TLV	200	100	60	80	80


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TEST REPORT NO.	RIN/JANUARY -20/W21	DATE OF ISSUE	29-02-20
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
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
10-01-20	7.48	30	28	<2
22-01-20	7.48	42	32	<2
TLV	5.5 - 9.0	100	250	10

ETP DISCHARGE BGOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
10-01-20	7.52	34	32	<2
22-01-20	7.32	46	40	<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: JANUARY**

CHP: BGON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	09-01-20	64.2	63.7
JAN 2020	20-01-20	60.1	59.4
TLV		75	70

GOURI COLONY: BGON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	09-01-20	43.5	43.3
JAN 2020	20-01-20	44.6	45.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

GOURI DEEP OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



JANUARY 2020

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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	GOUEGAON VILLAGE:	BGDO3
4	ANTARGAON VILLAGE:	BGDO4

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TEST REPORT NO.	RIN/TR/JANUARY -20/A23	DATE OF ISSUE	29-02-20
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	BALLARPUR AREA	Sampling Method :	LSOP 4
NAME OF PROJECT	GOURI DEEP OC	Sampling Plan :	LQR 47


MANAGER OFFICE: BGDO1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-01-20	320	196	93	19	13
19-01-20	304	188	108	24	13
TLV	600	300	60	120	120

MUTRA VILLAGE: BGDO2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-01-20	174	96	46	20	12
19-01-20	142	74	64	27	14
TLV	200	100	60	80	80

GOUEGAON VILLAGE: BGDO3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-01-20	157	84	42	28	21
19-01-20	177	98	34	25	9
TLV	200	100	60	80	80

ANTARGAON VILLAGE: BGDO4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-01-20	165	97	48	26	18
19-01-20	160	88	59	26	18
TLV	200	100	60	80	80


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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
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TEST REPORT NO.	RIN/TR/JANUARY -20/W23	DATE OF ISSUE	29-02-20
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
NAME OF AREA	BALLARPUR AREA	Sampling Method :	LSOP 5
NAME OF PROJECT	GOURI DEEP OC	Sampling Plan :	LQR 47

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
07-01-20	7.43	48	40	<2
19-01-20	7.32	42	36	<2
TLV	5.5 - 9.0	100	250	10

ETP (WORKSHOP): BGDW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
07-01-20	7.41	56	44	<2
19-01-20	7.31	56	48	<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: JANUARY

MANAGER OFFICE: BGDN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	09-01-20	53.4	52
JAN 2020	20-01-20	49.6	48.5
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

NEW DHOPTALA OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



JANUARY -2020

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

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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Fugitive Dust Monitoring locations:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TEST REPORT NO.	RIN/TR/JANUARY -20/A18	DATE OF ISSUE	29-02-20
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	BALLARPUR AREA	Sampling Method : LSOP 4	
NAME OF PROJECT	NEW DHOPTALA OC	Sampling Plan : LQR 47	


SAM OFFICE- DHOPTALA SUB AREA: BNDOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-01-20	214	168	84	27	16
23-01-20	218	142	96	28	15
TLV	600	300	60	120	120

MANAGER OFFICE- DHOPTALA OC: BNDOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-01-20	198	134	72	19	11
23-01-20	216	148	82	26	17
TLV	600	300	60	120	120

SASTI COLONY: BNDOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-01-20	155	84	53	21	10
23-01-20	171	93	61	23	16
TLV	200	100	60	80	80

SASTI VILLAGE: BNDOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-01-20	179	96	48	18	11
23-01-20	153	81	56	24	18
TLV	200	100	60	80	80


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NOISE LEVEL DATA

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

CHP: BNDN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	09-01-20	63.5	62.7
JAN 2020	20-01-20	50.6	49.3
TLV		75	70

SASTI COLONY: BNDN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	09-01-20	43.6	43.2
JAN 2020	20-01-20	44.8	43.7
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

PAUNI II OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



JANUARY 2020

Environment Laboratory
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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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TEST REPORT NO.	RIN/TR/JANUARY -20/A24	DATE OF ISSUE	29-02-20
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
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 $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-01-20	310	178	106	25	16
20-01-20	332	184	87	25	16
TLV	600	300	60	120	120

SUBSTATION: BP20A2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-01-20	268	144	72	22	12
21-01-20	300	162	95	22	11
TLV	600	300	60	120	120


SAKHARI VILLAGE: BP20A3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-01-20	180	98	44	23	15
21-01-20	166	89	63	23	15
TLV	200	100	60	80	80

WORKSHOP: BP20A4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-01-20	352	234	112	24	20
20-01-20	332	224	97	24	14
TLV	600	300	60	120	120


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TEST REPORT NO.	RIN/TR/JANUARY -20/W24	DATE OF ISSUE	29-02-20
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
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
09-01-20	7.38	44	32	<2
20-01-20	7.46	34	28	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JANUARY

MANAGER OFFICE: BP2ON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	09-01-20	54.3	53.6
JAN 2020	20-01-20	51.2	49.3
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

PAUNI O/C

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



JANUARY -2020

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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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TEST REPORT NO.	RIN/TR/JANUARY -20/A22	DATE OF ISSUE	29-02-20
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	BALLARPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	PAUNI O/C	SAMPLING PLAN : LQR 47	


MANAGER OFFICE- PAUNI O/C: BPOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-01-20	376	224	104	26	14
20-01-20	401	238	88	18	10
TLV	600	300	60	120	120

WORKSHOP- PAUNI O/C: BPOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-01-20	352	234	112	24	20
20-01-20	332	224	97	24	14
TLV	600	300	60	120	120


PAUNI VILLAGE: BPOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-01-20	170	98	44	23	18
20-01-20	142	79	62	23	15
TLV	200	100	60	80	80

GOURI VILLAGE: BPOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-01-20	156	88	48	28	18
22-01-20	173	97	62	24	14
TLV	200	100	60	80	80


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TEST REPORT NO.	RIN/TR/JANUARY -20/W22	DATE OF ISSUE	29-02-20
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
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
09-01-20	7.62	46	40	<2
22-01-20	7.42	48	44	<2
TLV	5.5 - 9.0	100	250	10

ETP DISCHARGE: BPOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
09-01-20	7.61	54	44	<2
22-01-20	7.41	52	40	<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: JANUARY**

MANAGER OFFICE: BPON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	09-01-20	52.6	52.4
JAN 2020	20-01-20	50.3	48.7
TLV		75	70

GOURI COLONY: BPON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	09-01-20	63.6	63.2
JAN 2020	20-01-20	44.6	45.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

SASTI OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



JANUARY 2020

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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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TEST REPORT NO.	RIN/TR/JANUARY -20/A16	DATE OF ISSUE	29-02-20
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	BALLARPUR AREA	SAMPLING METHOD	: LSOP 4
NAME OF PROJECT	SASTI OC	SAMPLING PLAN	: LQR 47


SAM OFFICE-SASTI OC: BSOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-01-20	228	166	28	24	13
22-01-20	149	182	32	26	18
TLV	600	300	60	120	120

AREA STORE: BSOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-01-20	265	183	62	26	16
22-01-20	239	167	48	19	8
TLV	600	300	60	120	120


GOURI COLONY FILTER PLANT: BSOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-01-20	154	86	48	22	12
22-01-20	176	98	56	28	14
TLV	200	100	60	80	80

SASTI VILLAGE: BSOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-01-20	179	96	48	18	11
23-01-20	153	81	56	24	18
TLV	200	100	60	80	80


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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
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TEST REPORT NO.	RIN/TR/JANUARY-20/W16	DATE OF ISSUE	29-02-20
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
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
10-01-20	7.33	38	36	<2
22-01-20	7.48	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
10-01-20	7.42	30	32	<2
22-01-20	7.36	40	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
10-01-20	62	11.8
22-01-20	64	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: JANUARY

CHP: BSON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	09-01-20	63.6	63.2
JAN 2020	20-01-20	59.8	58.2
TLV		75	70

G. COLONY: BSON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	09-01-20	43.5	43.3
JAN 2020	20-01-20	44.6	45.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

SASTI UG

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



JANUARY 2020

Environment Laboratory
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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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TEST REPORT NO.	RIN/TR/JANUARY-20/A17	DATE OF ISSUE	29-02-20
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	BALLARPUR AREA	SAMPLING METHOD :	LSOP 4
NAME OF PROJECT	SASTI UG	SAMPLING PLAN :	LQR 47


SAM OFFICE- DHUPTALA SUB AREA: BSUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-01-20	214	168	84	27	16
23-01-20	218	142	96	28	15
TLV	600	300	60	120	120

MANAGER OFFICE- DHOPTALA OC: BSUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-01-20	198	134	72	19	11
23-01-20	216	148	82	26	17
TLV	600	300	60	120	120


SASTI COLONY: BSUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-01-20	155	84	53	21	10
23-01-20	171	93	61	23	16
TLV	200	100	60	80	80

SASTI VILLAGE: BSUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-01-20	179	96	48	18	11
23-01-20	153	81	56	24	18
TLV	200	100	60	80	80


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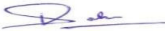
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TEST REPORT NO.	RIN/TR/JANUARY -20/W17	DATE OF ISSUE	29-02-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS 3025 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
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
11-01-20	7.48	46	40	<2
23-01-20	7.52	42	40	<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: SASTI UG **MONTH: JANUARY**

FAN HOUSE: BSUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	09-01-20	72.7	72.4
JAN 2020	20-01-20	69.7	67.8
TLV		75	70

SASTI COLONY: BSUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	09-01-20	43.6	43.2
JAN 2020	20-01-20	44.8	45.7
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

BHATADI OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



JANUARY 2020

Environment Laboratory
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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	KITADI VILLAGE:	CBOA4

Fugitive Dust Monitoring locations:

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

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
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TEST REPORT NO.	RIN/TR/JANAURY-20/A34	DATE OF ISSUE	29.02.2020
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD: LSOP 4	
NAME OF PROJECT	BHATADI OC	SAMPLING PLAN : LQR 47	

BHATADI SECURITY POST: CBOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-01-20	168	100	38	35	11
22-01-20	177	89	36	31	11
TLV	600	300	60	120	120

BHATADI MANAGER OFFICE: CBOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-01-20	196	98	39	35	11
21-01-20	187	96	37	37	11
TLV	600	300	60	120	120

BHATADI VILLAGE: CBOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-01-20	140	84	31	25	<10
21-01-20	160	85	34	30	10
TLV	200	100	60	80	80

KITADI VILLAGE: CBOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-01-20	180	135	50	40	12
16-01-20	163	84	35	32	11
TLV	200	100	60	80	80



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TEST REPORT NO.	RIN/TR/JANUARY -20/W34	DATE OF ISSUE	29-02-20
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
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
04-01-20	7.34	44	28	<2
17-01-20	7.54	32	30	<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
04-01-20	7.8	40	32	<2
17-01-20	7.47	36	34	<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
04-01-20	32	12
17-01-20	20	11.4
TLV	100	30


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NOISE LEVEL DATA

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

NEAR CHP: CBON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	06-01-20	61.7	61.4
JAN 2020	20-01-20	63.7	63.5
TLV		75	70

COLONY: CBON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	06-01-20	43.6	43.3
JAN 2020	20-01-20	43.6	43.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

CRC UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



JANUARY 2020



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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 quality monitoring data	Air	 TC-7102
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TEST REPORT NO.	RIN/TR/JANUARY -20/A32	DATE OF ISSUE	29-02-20
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(23:1999), NOx(06:2006), SO2(02:2001)], PM-2.5(USEPA)& SPM*		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	CRC UG	SAMPLING PLAN : LQR 47	

MANAGER'S OFFICE MAHAKALI UG: CCRUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-01-20	162	97	37	29	<10
18-01-20	182	109	43	38	14
TLV	600	300	60	120	120

CRC SUBSTATION/ FILTER PLANT: CCRUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-01-20	147	113	40	32	10
18-01-20	182	109	43	38	14
TLV	600	300	60	120	120

JATWARA MILK SCHEME: CCRUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-01-20	191	149	55	44	13
18-01-20	186	74	30	25	<10
TLV	600	300	60	120	120

COLONY: CCRUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-01-20	189	176	40	36	11
18-01-20	176	88	35	30	10
TLV	200	100	60	80	80



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TEST REPORT NO.	RIN/TR/JANUARY -19/W32	DATE OF ISSUE	29-02-20
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
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
14-01-20	7.14	32	30	<2
18-01-20	7.27	36	34	<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: JANUARY

CHP: CCRUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	06-01-20	63.4	63.3
JAN 2020	20-01-20	62.7	62.6
TLV		75	70

COLONY: CCRUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	06-01-20	42.6	42.5
JAN 2020	20-01-20	42.7	42.5
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

DRC UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

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JANUARY 2020

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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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TEST REPORT NO.	RIN/TR/JANUARY-20/A33	DATE OF ISSUE	29-02-20
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD :	LSOP 4
NAME OF PROJECT	DRC UG	SAMPLING PLAN :	LQR 47

PIT OFFICE-DRC- III UG: CDRUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-01-20	249	125	45	34	10
19-01-20	230	115	46	40	12
TLV	600	300	60	120	120

NEHRU NAGAR/ SUBSTATION: CDRUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-01-20	320	160	50	40	12
19-01-20	280	140	49	39	12
TLV	600	300	60	120	120

DRC- V COLONY: CDRUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-01-20	170	96	38	33	13
19-01-20	199	100	40	35	15
TLV	200	100	60	80	80

PIT OFFICE DRC-IV: CDRUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-01-20	187	94	50	43	13
19-01-20	184	99	40	35	<13
TLV	200	100	60	80	80



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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
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TEST REPORT NO.	RIN/TR/JANUARY-20/W33	DATE OF ISSUE	29-02-20
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
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
06-01-20	7.24	36	28	<2
11-01-20	7.43	20	18	<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: JANUARY

PIT OFFICE DRC- III UG: CDRUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	06-01-20	72.4	72.2
JAN 2020	20-01-20	72.1	72.3
TLV		75	70

DURGAPUR COLONY: CDRUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	06-01-20	42.6	42.5
JAN 2020	20-01-20	42.7	42.5
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

DURGAPUR OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



JANUARY 2020

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

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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
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TEST REPORT NO.	RIN/TR/JANUARY-20/A25	DATE OF ISSUE	29.02.20
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	DURGAPUR OC	SAMPLING PLAN : LQR 47	

MANAGER'S OFFICE- SECTOR V: CDOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-01-20	198	148	55	44	15
17-01-20	163	100	32	24	<10
TLV	600	300	60	120	120

DURGAPUR VILLAGE: CDOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-01-20	150	120	48	42	13
21-01-20	173	140	50	36	11
TLV	200	100	60	80	80

MANAGER OFFICE Q-IV : CDOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-01-20	152	114	45	34	11
16-01-20	180	120	48	40	12
TLV	600	300	60	120	120

FILTER PLANT DOC/POC COLONY: CDOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-01-20	172	85	56	41	12
17-01-20	180	90	36	30	10
TLV	200	100	60	80	80



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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
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TEST REPORT NO.	RIN/TR/JANUARY-20/W25	DATE OF ISSUE	29-02-20
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD	: LSOP 5
NAME OF PROJECT	DURGAPUR OC	SAMPLING PLAN	: LQR 47

MINE WATER DISCHARGE Q-II: CDOW1				
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
04-01-20	4.4	36	30	<2
17-01-20	6.4	332	28	<2
TLV	5.5 - 9.0	100	250	10

MINE WATER DISCHARGE Q-IV: CDOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
04-01-20	7.46	28	30	<2
17-01-20	7.2	40	38	<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
13-01-20	7.5	32	24	<2
17-01-20	7.4	40	32	<2
TLV	5.5 - 9.0	100	250	10

STP DISCHARGE: CDOW4		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS(in mg/l)	BOD(in mg/l)
DETECTION LIMIT	10	2
13-01-20	28	10.2
17-01-20	36	12.6
TLV	100	30



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NOISE LEVEL DATA

NAME OF AREA: CHANDRAPUR AREA YEAR: 2020
NAME OF PROJECT: DURGAPUR OC MONTH: JANUARY

CHP: CDON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	06-01-20	64.6	63.7
JAN 2020	20-01-20	6.7	63.4
TLV		75	70

DURGAPUR COLONY: CDON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	06-01-20	43.5	43.3
JAN 2020	20-01-20	43.6	43.2
TLV		50	45

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ENVIRONMENTAL MONITORING REPORT

HLP OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



JANUARY-2020

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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Fugitive Dust Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TEST REPORT NO.	RIN/TR/JANUARY-20/A28	DATE OF ISSUE	29-02-20
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	HLP OC	SAMPLING PLAN : LQR 47	

MANAGER OFFICE(NANDGAON UG): CHOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-01-20	120	96	38	34	11
18-01-20	182	91	36	34	12
TLV	600	300	60	120	120

MANAGER OFFICE(HLP OC): CHOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-01-20	173	126	44	37	11
20-01-20	150	90	36	27	<10
TLV	600	300	60	120	120

MANA VILLAGE : CHOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-01-20	156	103	35	30	<10
18-01-20	149	77	32	28	<10
TLV	200	100	60	80	80

COLONY (NANDGAON): CHOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-01-20	130	91	35	31	10
20-01-20	156	78	31	23	<10
TLV	200	100	60	80	80



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TEST REPORT NO.	RIN/TR/JANUARY-20/W28	DATE OF ISSUE	29-02-20
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD :	LSOP 5
NAME OF PROJECT	HLP OC	SAMPLING PLAN :	LQR 47

MINE DISCHARGE : CHOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
13-01-20	6.66	36	28	<2
20-01-20	4.9	20	30	<2
TLV	5.5 - 9.0	100	250	10

ETP DISCHARGE: CHOW2				
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
13-01-20	7.37	32	24	<2
20-01-20	7.15	30	20	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JANUARY

CHP: CHON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	06-01-20	63.7	63.5
JAN 2020	20-01-20	63.7	63.6
TLV		75	70

COLONY: CHON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	06-01-20	43.5	42.6
JAN 2020	20-01-20	42.8	42.7
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

HLP I& III UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



JANUARY 2020

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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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TEST REPORT NO.	RIN/TR/JANUARY-20/A27	DATE OF ISSUE	29-01-20
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	HLP I& III UG	SAMPLING PLAN : LQR 47	

SUBSTATION HLC I UG: CHUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-01-20	148	103	41	36	11
17-01-20	155	92	34	30	10
TLV	600	300	60	120	120

PIT OFFICE - HLC-I INCLINE: CHUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-01-20	164	82	32	29	<10
17-01-20	140	80	32	28	<10
TLV	600	300	60	120	120

HLC-III COLONY : CHUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-01-20	143	93	37	32	10
20-01-20	155	93	32	28	<10
TLV	200	100	60	80	80

RAJIV GANDHI ENGG. COLLEGE: CHUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-01-20	174	134	50	40	12
20-01-20	189	113	45	34	12
TLV	200	100	60	80	80




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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
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TEST REPORT NO.	RIN/TR/JANUARY-20/W27	DATE OF ISSUE	29-02-20
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD	: LSOP 5
NAME OF PROJECT	HLP I& III UG	SAMPLING PLAN	: LQR 47

MINE WATER DISCHARGE - I UG: CHUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
13-01-20	7.47	30	32	<2
18-01-20	7.47	26	36	<2
TLV	5.5 - 9.0	100	250	10

MINE WATER DISCHARGE-III UG: CHUW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
13-01-20	7.67	38	40	<2
21-01-20	7.77	18	18	<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: JANUARY**

FAN HOUSE - I UG: CHUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	06-01-20	67.4	67.2
JAN 2020	20-01-20	68.3	68.2
TLV		75	70

COLONY: CHUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	06-01-20	43.6	43.4
JAN 2020	20-01-20	43.2	43.5
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

MAHAKALI UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



JANUARY 2020



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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:

ENV. MONITORING REPORT
MAHAKALI UG

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
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TEST REPORT NO.	RIN/TR/JANUARY-19/A31	DATE OF ISSUE	29-02-20
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING PLAN	LQR 47
NAME OF PROJECT	MAHAKALI UG	SAMPLING METHOD	LSOP 4

MANAGER'S OFFICE MAHAKALI UG: CMUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-01-20	162	97	37	29	<10
18-01-20	182	109	43	38	14
TLV	600	300	60	120	120

CRC SUBSTATION/ FILTER PLANT: CMUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-01-20	147	113	40	32	10
18-01-20	182	109	43	38	14
TLV	600	300	60	120	120


JATWARA MILK SCHEME: CMUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-01-20	191	149	55	44	13
18-01-20	186	74	30	25	<10
TLV	600	300	60	120	120

COLONY: CMUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-01-20	189	176	40	36	11
18-01-20	176	88	35	30	10
TLV	200	100	60	80	80

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TEST REPORT NO.	RIN/TR/JANAURY-20/W31	DATE OF ISSUE	29-02-20
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
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
07-01-20	7.2	36	32	<2
18-01-20	7.4	24	18	<2
TLV	5.5 - 9.0	250	100	10


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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JANUARY

FAN HOUSE: CMUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	06-01-20	69.4	69.3
JAN 2020	20-01-20	69.7	69.6
TLV		75	70

COLONY: CMUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	06-01-20	43.5	43.2
JAN 2020	20-01-20	43.2	43.6
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

MANA UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



JANUARY 2020

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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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TEST REPORT NO.	RIN/TR/JANUARY-20/A30	DATE OF ISSUE	29-02-20
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	MANA UG	SAMPLING PLAN	LQR 47

MANAGER'S OFFICE: CMUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-01-20	164	99	40	30	<10
18-01-20	169	99	35	32	11
TLV	600	300	60	120	120

SUBSTATION MANA INCLINE: CMUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-01-20	196	149	57	45	14
18-01-20	190	74	30	24	<10
TLV	600	300	60	120	120

COLONY (NANDGAON): CMUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-01-20	130	91	35	31	10
20-01-20	156	78	31	23	<10
TLV	200	100	60	80	80

MANA VILLAGE: CMUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-01-20	156	103	35	30	<10
18-01-20	149	77	32	28	<10
TLV	200	100	60	80	80



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TEST REPORT NO.	RIN/TR/JANUARY-20/W30	DATE OF ISSUE	29-02-20
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD :	LSOP 5
NAME OF PROJECT	MANA UG	SAMPLING PLAN :	LQR 47

MINE WATER DISCHARGE: CMUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
13-01-20	7.44	32	28	<2
18-01-20	7.44	28	26	<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: JANUARY

FAN HOUSE: CMUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	06-01-20	68.7	68.2
JAN 2020	20-01-20	68.4	68.2
TLV		75	70

COLONY (HLP OC): CMUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	06-01-20	43.4	42.6
JAN 2020	20-01-20	42.8	42.7
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

NANDGAON UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



JANUARY 2020

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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
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TEST REPORT NO.	RIN/TR/JANUARY-20/A29	DATE OF ISSUE	29-02-20
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	NANDGAON UG	SAMPLING PLAN : LQR 47	

MANAGER OFFICE NANDGAON UG: CNUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-01-20	120	96	38	34	11
18-01-20	182	91	36	34	12
TLV	600	300	60	120	120

SUBSTATION MANA INCLINE: CNUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-01-20	196	149	57	45	14
18-01-20	190	74	30	24	<10
TLV	600	300	60	120	120

MANA VILLAGE : CNUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-01-20	156	103	35	30	<10
18-01-20	149	77	32	28	<10
TLV	200	100	60	80	80

COLONY (NANDGAON): CNUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-01-20	130	91	35	31	10
20-01-20	156	78	31	23	<10
TLV	200	100	60	80	80



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TEST REPORT NO.	RIN/TR/JANUARY-20/W29	DATE OF ISSUE	29-02-20
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD :	LSOP 5
NAME OF PROJECT	NANDGAON UG	SAMPLING PLAN :	LQR 47

MINE WATER DISCHARGE: CNUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
13-01-20	7.39	40	36	<2
18-01-20	7.09	44	34	<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: JANUARY

FAN HOUSE: CNUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	06-01-20	72.6	72.4
JAN 2020	20-01-20	72.7	72.2
TLV		75	70

COLONY HLP OC: CNUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	06-01-20	43.6	42.6
JAN 2020	20-01-20	42.8	42.7
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

PADMAPUR OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



JANUARY 2020

Environment Laboratory

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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	MANAGER OFFICE SECTOR-V:	CPOA2
3	KITADI VILLAGE :	CPOA3
4	FILTER PLANT DOC/POC COLONY:	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 Q IV:	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
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TEST REPORT NO.	RIN/TR/JANUARY-20/A26	DATE OF ISSUE	29-02-20
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD	: LSOP 4
NAME OF PROJECT	PADMAPUR OC	SAMPLING PLAN	: LQR 47

MANAGER'S OFFICE-Q-IV: CPOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-01-20	152	114	45	34	11
16-01-20	180	120	48	40	12
TLV	600	300	60	120	120

MANAGER OFFICE SECTOR-V: CPOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-01-20	198	148	55	44	15
17-01-20	163	100	32	24	<10
TLV	600	300	60	120	120

KITADI VILLAGE : CPOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-01-20	180	135	50	40	12
16-01-20	163	84	35	32	11
TLV	200	100	60	80	80

FILTER PLANT DOC/POC COLONY: CPOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-01-20	172	85	56	41	12
17-01-20	180	90	36	30	10
TLV	200	100	60	80	80




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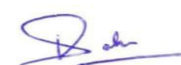
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TEST REPORT NO.	RIN/TR/JANUARY-20/W26	DATE OF ISSUE	29-01-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS 3025 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD	LSOP 5
NAME OF PROJECT	PADMAPUR OC	SAMPLING PLAN	LQR 47

MINE WATER DISCHARGE Q IV: 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
04-01-20	7.46	28	30	<2
17-01-20	7.2	40	38	<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
05-01-20	7.32	36	34	<2
18-01-20	7.4	28	24	<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: JANUARY

CHP: CPON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	06-01-20	64.7	64.2
JAN 2020	20-01-20	64.4	64.2
TLV		75	70

DURGAPUR COLONY: CPON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	06-01-20	43.5	43.3
JAN 2020	20-01-20	43.6	43.2
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

JUNA KUNADA OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



JANUARY 2020

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

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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
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TEST REPORT NO.	RIN/TR/JANUARY-20/A46	DATE OF ISSUE	29.02.20
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	MAJRI AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	JUNA KUNADA OC	SAMPLING PLAN : LQR 47	

PIT OFFICE: MJOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-01-20	122	78	42	19	<10
18-01-20	108	70	32	15	<10
TLV	600	300	60	120	120

SAM OFFICE CHARGAON: MJOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-01-20	270	162	50	40	11
18-01-20	246	148	44	34	12
TLV	600	300	60	120	120

EKTA NAGAR COLONY: MJOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-01-20	176	110	48	28	<10
18-01-20	168	100	40	24	11
TLV	200	100	60	80	80

CHARGAON INTAKE WELL: MJOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-01-20	80	48	22	17	<10
18-01-20	102	62	35	20	<10
TLV	200	100	60	80	80



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NOISE LEVEL DATA

NAME OF AREA: MAJRI AREA
NAME OF PROJECT: JUNA KUNADA OC

YEAR: 2020
MONTH: JANUARY

MANAGER OFFICE: MJON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	11-01-20	44.6	43.6
JAN 2020	18-01-20	45.6	44.8
TLV		75	70

EKTA NAGAR COLONY: MJON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	11-01-20	43.9	42.8
JAN 2020	18-01-20	44.5	43.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

NEW MAJRI-II (A)OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



JANUARY 2020

Environment Laboratory
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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
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TEST REPORT NO.	RIN/TR/JANUARY-20/A42	DATE OF ISSUE	29.02.20
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	MAJRI AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	NEW MAJRI-II (A)OC	SAMPLING PLAN : LQR 47	

NMOC SUBSTATION: MMOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-01-20	108	76	32	23	<10
17-01-20	110	70	28	20	<10
TLV	600	300	60	120	120

PATALA MAGAZINE: MMOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-01-20	232	153	56	38	<10
17-01-20	218	140	50	30	12
TLV	600	300	60	120	120

PRIMARY HEALTH CENTRE,MAJRI BASTI: MMOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-01-20	45	32	22	12	<10
17-01-20	62	40	19	17	<10
TLV	200	100	60	80	80

KUCHANA VILLAGE: MMOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-01-20	80	42	18	15	<10
09-01-20	84	46	24	18	<10
15-01-20	80	44	26	14	<10
16-01-20	98	52	30	25	<10
20-01-20	100	56	23	18	<10
21-01-20	106	60	22	21	<10
29-01-20	94	52	21	18	<10
30-01-20	112	62	25	22	
TLV	200	100	60	80	80




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TEST REPORT NO.	RIN/TR/JANUARY-20/W42	DATE OF ISSUE	29.02.20
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
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
08-01-20	6.9	50	20	<2
16-01-20	7.3	64	12	<2
TLV	5.5 - 9.0	100	250	10

WETP DISCHARGE: MMOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
08-01-20	7.6	36	40	<2
16-01-20	7.4	34	32	<2
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: JANUARY

FIELD MAIN.SHED: MMON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	11-01-20	55.6	54.9
JAN 2020	18-01-20	56.7	55.4
TLV		75	70

KUCHNA COLONY: MMON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	11-01-20	44.8	43.5
JAN 2020	18-01-20	45.3	44.2
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

NEW MAJRI-UG TO OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



JANUARY 2020

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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	NMOC SUBSTATION:	MMUA3
4	KUCHANA COLONY:	MMUA4

Fugitive Dust Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TEST REPORT NO.	RIN/TR/JANUARY-20/A43	DATE OF ISSUE	29.02.20
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	MAJRI AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	NEW MAJRI-UG TO OC	SAMPLING PLAN : LQR 47	

PATALA MAGAZINE: MMUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-01-20	218	140	50	30	12
17-01-20	232	153	56	38	<10
TLV	600	300	60	120	120

MANAGER OFFICE UG TO OC: MMUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-01-20	60	36	15	13	<10
17-01-20	48	28	21	11	<10
TLV	600	300	60	120	120

NMOC SUBSTATION: MMUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-01-20	110	70	28	20	<10
17-01-20	108	76	32	23	<10
TLV	600	300	60	120	120

KUCHANA COLONY: MMUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM₁₀	PM_{2.5}	NO_x	SO₂
DETECTION LIMIT	5	5	2	6	10
08-01-20	100	56	23	18	<10
09-01-20	106	60	22	21	<10
15-01-20	94	52	21	18	<10
16-01-20	112	62	25	22	<10
20-01-20	80	42	18	15	<10
21-01-20	84	46	24	18	<10
29-01-20	80	44	26	14	<10
30-01-20	98	52	30	25	<10
TLV	200	100	60	80	80



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TEST REPORT NO.	RIN/TR/JANUARY-20/W43	DATE OF ISSUE	29.02.20
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
NAME OF AREA	MAJRI AREA	SAMPLING METHOD :	LSOP 5
NAME OF PROJECT	NEW MAJRI-UG TO OC	SAMPLING PLAN :	LQR 47

MINE WATER DISCHARGE: MMUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
09-01-20	8	30	36	<2
17-01-20	7.8	36	28	<2
TLV	5.5 - 9.0	100	250	10

ETP:MMUW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
09-01-20	8.3	48	44	<2
17-01-20	8.4	42	44	<2
TLV	5.5 - 9.0	100	250	10



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ENVIRONMENTAL MONITORING REPORT

TELWASA OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



JANUARY 2020

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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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TEST REPORT NO.	RIN/TR/JANUARY-20/A43	DATE OF ISSUE	29.02.20
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	MAJRI AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	TELWASA OC	SAMPLING PLAN : LQR 47	

TELWASA SECURITY OFFICE: MTOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-01-20	180	110	58	28	<10
19-01-20	108	102	41	12	<10
TLV	600	300	60	120	120

SAM OFFICE: MTOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-01-20	164	98	50	29	<10
19-01-20	172	94	38	28	10
TLV	600	300	60	120	120

CHARGAON VILLAGE: MTOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-01-20	186	102	52	26	<10
19-01-20	180	96	42	30	11
TLV	200	100	60	80	80

EKTA NAGAR COLONY: MTOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-01-20	176	110	48	28	<10
18-01-20	168	100	40	24	11
TLV	200	100	60	80	80



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JANUARY

NEAR PIT OFFICE: MTON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	11-01-20	48.5	46.7
JAN 2020	18-01-20	49.6	47.8
TLV		75	70

EKTA NAGAR COLONY: MTON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	11-01-20	43.9	42.8
JAN 2020	18-01-20	44.5	43.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

YEKONA I & II OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



JANUARY 2020

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

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

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	PENZURNI VILLAGE :	MYOA2
3	ASHTI VILLAGE:	MYOA3
4	DANDGAON VILLAGE	MYOA4
5	HIWARA MAJARA:	MYOA5

Water Quality Monitoring location:

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

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	PIT OFFICE:	MYON1

Frequency of Monitoring:

AIR: Frequency of monitoring is as per the Env. (Protection) Amendment 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/JANUARY-20/A48	DATE OF ISSUE	11.02.2020
NAME OF CUSTOMER	WCL, 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(23:1999), NOx(06:2006), SO2(02:2001)], PM-2.5(USEPA)& SPM*		
NAME OF AREA	MAJRI AREA	YEAR	2020
NAME OF PROJECT	YEKONA I & II OC	MONTH	JANUARY

PIT OFFICE: MYOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-01-20	312	250	56	34	12
08-01-20	305	244	50	30	12
11-01-20	258	162	42	38	14
14-01-20	289	231	48	29	11
15-01-20	274	219	44	26	<10
18-01-20	287	181	39	36	15
20-01-20	294	235	43	26	<10
28-01-20	268	214	45	27	12
TLV	600	300	60	120	120

PENZURNI VILLAGE : MYOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-01-20	120	79	36	29	11
08-01-20	101	76	30	24	<10
14-01-20	131	77	26	21	11
15-01-20	128	78	27	22	<10
19-01-20	98	79	24	19	<10
20-01-20	118	82	25	20	12
28-01-20	139	75	29	23	11
29-01-20	122	82	37	29	12
TLV	200	100	60	80	80

ASHTI VILLAGE: MYOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-01-20	185	78	36	29	13
08-01-20	162	74	39	31	11
14-01-20	171	79	31	25	12
15-01-20	129	84	34	27	<10
19-01-20	156	76	30	24	11
20-01-20	154	82	33	26	12
28-01-20	139	80	36	29	10
29-01-20	148	76	38	31	11
TLV	200	100	60	80	80

DANDGAON VILLAGE MYOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-01-20	103	82	37	22	13
08-01-20	115	83	36	22	11
14-01-20	124	79	38	23	13
15-01-20	96	77	35	21	<10
19-01-20	105	84	38	23	10
20-01-20	98	78	35	21	12
28-01-20	112	80	34	20	<10
29-01-20	110	81	32	19	<10
TLV	200	100	60	80	80

HIWARA MAJARA: MYOA5					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-01-20	165	83	44	26	<10
08-01-20	161	80	43	26	<10
11-01-20	158	76	39	23	<10
14-01-20	175	82	41	25	12
15-01-20	129	74	33	20	14
18-01-20	148	79	36	21	12
28-01-20	156	83	38	27	13
29-01-20	162	79	36	30	15
TLV	200	100	60	80	80




SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY


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TSET REPORT NO.	RIN/TR/JANUARY-20/W48	DATE OF ISSUE	11.02.2020
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	MAJRI AREA	YEAR	2020
NAME OF PROJECT	YEKONA I & II OC	MONTH	JANUARY

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
11-01-20	7.9	30	32	<2
19-01-20	8.1	26	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: MAJRI AREA
NAME OF PROJECT: YEKONA I& II OC

YEAR: 2020
MONTH: JANUARY

PIT OFFICE: MYON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	11-01-20	55.9	54.8
JAN 2020	18-01-20	54.6	53.5
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

ADASA UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



JANUARY-2020

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

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4	NOISE LEVEL DATA	6

INTRODUCTION

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

The above-mentioned industries are also expected to contribute in increasing the pollution load of the area. The

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 quality monitoring data	Air	 TC-7102
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TEST REPORT NO.	RIN/TR/JANUARY-20/A5	DATE OF ISSUE	29.02.2020
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	ADASA UG	SAMPLING PLAN	LQR 47

PROJECT MANAGER OFFICE: NAUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-01-20	210	75	29	24	12
30-01-20	220	86	38	24	18
TLV	600	300	60	120	120

AT PATHAKHEDI GP OFFICE : NAUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-01-20	175	63	38	27	16
30-01-20	180	75	34	26	14
TLV	200	100	60	80	80

COLONY WATER FILTER PLANT : NAUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-01-20	175	74	36	27	18
31-01-20	185	76	28	24	14
TLV	200	100	60	80	80

KOTODI VILLAGE : NAUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-01-20	168	65	32	26	14
31-01-20	175	68	36	26	16
TLV	200	100	60	80	80

J. Shan
SCIENTIFIC ASSISTANT

Deepanshu Sahu
DEEPANSHU SAHU
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TEST REPORT NO.	RIN/TR/JANUARY-20/W5	DATE OF ISSUE	29.02.2020
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	ADASA UG	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: NAUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	Ph	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
14-01-20	7.3	22	32	<2
29-01-20	7.7	16	24	<2
TLV	5.5 - 9.0	100	250	10

J. Shang

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JANUARY

FAN HOUSE: NAUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	14-01-20	67.9	65.4
JAN 2020	28-01-20	69.8	68.2
TLV		75	70

MANAGER OFFICE: NAUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	14-01-20	46.8	43.8
JAN 2020	28-01-20	50.7	49.1
TLV		75	70

COLONY (SAONER): NAUN3			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	14-01-20	44.9	42.5
JAN 2020	28-01-20	44.6	43.8
TLV		55	50

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ENVIRONMENTAL MONITORING REPORT

BHANEGAON OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



JANUARY 2020



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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
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TEST REPORT NO.	RIN/TR/JANUARY-20/A9	DATE OF ISSUE	29.02.2020
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	BHANEGAON OC	SAMPLING PLAN : LQR 47	

NEAR MANGER OFFICE: NBOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-01-20	260	126	44	32	19
29-01-20	186	95	36	32	18
TLV	600	300	60	120	120

BINA SANGAM TEMPLE: NBOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-01-20	164	66	38	26	18
29-01-20	132	48	24	21	18
TLV	200	100	60	80	80

BINA VILLAGE: NBOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-01-20	144	56	32	28	16
30-01-20	138	42	32	23	14
TLV	200	100	60	80	80

DORLI VILLAGE : NBOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-01-20	185	78	32	24	17
29-01-20	174	63	28	22	14
TLV	200	100	60	80	80

J. Shrivastava

SCIENTIFIC ASSISTANT

Deepanshu Sahu


DEEPANSHU SAHU
AUTHORIZED SIGNATORY


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TEST REPORT NO.	RIN/TR/JANUARY-20/W9	DATE OF ISSUE	29.02.2020
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD :	LSOP 5
NAME OF PROJECT	BHANEGAON OC	SAMPLING PLAN :	LQR 47

MINE WATER DISCHARGE: NBOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
04-01-20	7.5	18	28	<2
29-01-20	7.2	16	24	<2
TLV	5.5 - 9.0	100	250	10


 J. Shany
 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JANUARY

CONTRACTOR CAMP: NBON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	13-01-20	50.6	46.9
JAN 2020	28-01-20	50.1	48.9
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

GONDEGAON OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



JANUARY 2020



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

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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	SECURITY CHECK POST/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
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TEST REPORT NO.	RIN/TR/JANUARY-20/A6	DATE OF ISSUE	29.02.19
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	GONDEGAON OC	SAMPLING PLAN : LQR 47	

NEAR SUBSTATION: NGOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-01-20	280	170	42	27	17
30-01-20	320	215	65	38	19
TLV	600	300	60	120	120

GONDEGAON VILLAGE SCHOOL: NGOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-01-20	155	76	42	29	18
30-01-20	170	69	27	28	15
TLV	200	100	60	80	80

COLONY/GUEST HOUSE: NGOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-01-20	142	65	37	27	17
29-01-20	156	72	36	27	16
TLV	200	100	60	80	80

GHATRONHA VILLAGE: NGOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-01-20	136	62	38	24	12
29-01-20	142	56	32	22	14
TLV	200	100	60	80	80

J. Shany

SCIENTIFIC ASSISTANT

Deepanshu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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FUGITIVE DUST MONITORING DATA

SECURITY CHECK POST/W. BRIDGE NGOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM _{2.5}
DETECTION LIMIT	5	5	2
30-01-20	885	560	86



SCIENTIFIC ASSISTANT



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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
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TEST REPORT NO.	RIN/TR/JANUARY-20/W6	DATE OF ISSUE	29.02.19
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD :	LSOP 5
NAME OF PROJECT	GONDEGAON OC	SAMPLING PLAN :	LQR 47

MINE WATER DISCHARGE: NGOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
03-01-20	7.9	22	28	<2
24-01-20	7.6	28	36	<2
TLV	5.5 - 9.0	100	250	10

ETP DISCHARGE: NGOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
03-01-20	7.6	18	24	<2
24-01-20	7.2	16	24	<2
TLV	5.5 - 9.0	100	250	10

J. Shan

SCIENTIFIC ASSISTANT

Deepanshu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JANUARY

CHP: NGON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	13-01-20	48.9	45.6
JAN 2020	28-01-20	61.2	58.4
TLV		75	70

COLONY: NGON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	13-01-20	45.8	42.6
JAN 2020	28-01-20	42.4	41
TLV		55	45

GHATROHNA VILLAGE NGON3			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	13-01-20	46.7	43.2
JAN 2020	28-01-20	39.9	38.6
TLV		55	45

JUNI KAMPTEE VILLAGE: NGON4			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	13-01-20	44.9	42.3
JAN 2020	28-01-20	40.4	39.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

INDRE UG TO OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



JANUARY 2020



Environment Laboratory
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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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TEST REPORT NO.	RIN/TR/JANUARY-20/A8	DATE OF ISSUE	29.02.2020
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	INDRE UG TO OC	SAMPLING PLAN : LQR 47	

NEAR PIT NO.6 / MANAGER OFFICE: NIOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-01-20	242	112	38	29	19
25-01-20	232	165	44	32	14
TLV	600	300	60	120	120

CMPDI TEKADI STORE: NIOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-01-20	220	96	32	28	18
25-01-20	226	85	34	26	16
TLV	600	300	60	120	120

COLONY WATER TREATMENT PLANT: NIOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-01-20	166	74	27	24	16
29-01-20	151	58	32	26	18
TLV	200	100	60	80	80

G.P. OFFICE KANDRI VILLAGE: NIOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-01-20	144	56	32	26	18
25-01-20	165	64	34	28	17
TLV	200	100	60	80	80

J. Shrivastava

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY


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TEST REPORT NO.	RIN/TR/JANUARY-20/W8	DATE OF ISSUE	29.02.2020
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD :	LSOP 5
NAME OF PROJECT	INDRE 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
02-01-20	7.9	28	36	<2
24-01-20	7.3	24	32	<2
TLV	5.5 - 9.0	100	250	10


SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JANUARY

R.C. OFFICE: NION1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	13-01-20	48.7	44.5
JAN 2020	28-01-20	49.2	48
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

KAMPTEE DEEP OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



JANUARY 2020

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

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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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TEST REPORT NO.	RIN/TR/JANUARY-20/A7	DATE OF ISSUE	29.02.20
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	KAMPTEE DEEP OC	SAMPLING PLAN : LQR 47	

SUBSTATION KAMPTEE : NKCA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-01-20	220	106	36	27	17
25-01-20	340	185	66	38	19
TLV	600	300	60	120	120

JUNI KAMPTEE VILLAGE: NKCA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-01-20	156	65	36	22	14
29-01-20	175	76	34	24	16
TLV	200	100	60	80	80

COLONY WATER TREATMENT PALNT: NKCA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-01-20	166	74	27	24	16
29-01-20	151	58	32	26	18
TLV	200	100	60	80	80

G.P. OFFICE KANDRI VILLAGE: NKCA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-01-20	144	56	32	26	18
25-01-20	165	64	34	28	17
TLV	200	100	60	80	80

J. Shrivastava

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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TEST REPORT NO.	RIN/TR/JANUARY-20/W7	DATE OF ISSUE	29.02.20
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
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
02-01-20	7.4	24	32	<2
24-01-20	7.4	18	28	<2
TLV	5.5 - 9.0	100	250	10

J. Shany

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

NAME OF AREA: NAGPUR AREA
NAME OF PROJECT: KAMPTEE DEEP OC

YEAR: 2020
MONTH: JANUARY

CHP: NKCN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	13-01-20	49.3	47.3
JAN 2020	28-01-20	60.1	58.2
TLV		75	70

COLONY: NKCN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	13-01-20	45.3	42.8
JAN 2020	28-01-20	43.4	41
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

PATANSAONGI UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



JANUARY 2020

Environment Laboratory
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INTRODUCTION

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

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

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :


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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR		Test Report Air quality monitoring data		 TC-7102
TEST REPORT NO.	RIN/TR/JANUARY-20/A3	DATE OF ISSUE	29.02.2020	
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*			
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD :	LSOP 4	
NAME OF PROJECT	PATANSAONGI UG	SAMPLING PLAN :	LQR 47	

COLLIERY MANGER OFFICE: NPTUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-01-20	166	56	36	26	12
30-01-20	274	166	38	32	18
TLV	600	300	60	120	120

SADBHAVAN NAGAR (FILTER PLANT): NPTUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
16-01-20	176	74	32	24	16
30-01-20	186	84	34	26	14
TLV	200	100	60	80	80

NEAR LCH QR.: NPTUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
16-01-20	180	95	33	27	17
29-01-20	232	96	36	22	12
TLV	200	100	60	80	80

SAVARMENDHA VILLAGE.:NPTUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
16-01-20	144	46	26	29	18
29-01-20	165	54	32	24	16
TLV	200	100	60	80	80


J. Shany

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
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TEST REPORT NO.	RIN/TR/JANUARY-20/W3	DATE OF ISSUE	29.02.2020
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
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
15-01-20	8.5	26	36	<2
28-01-20	8.2	18	24	<2
TLV	5.5 - 9.0	100	250	10

J. Shrivastava

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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ENVIRONMENTAL MONITORING REPORT

PIPLA UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



JANUARY 2020

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

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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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TEST REPORT NO.	RIN/TR/JANUARY-20/A2	DATE OF ISSUE	29.02.2020
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	PIPLA UG	SAMPLING PLAN : LQR 47	

NEAR MAGZINE / MANAGER OFFICE: NPUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
16-01-20	324	156	34	27	18
29-01-20	338	165	36	26	17
TLV	600	300	60	120	120

IN ZONE- 4: NPUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-01-20	328	165	37	24	14
31-01-20	185	87	34	20	12
TLV	600	300	60	120	120

FILTER PLANT: NPUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-01-20	175	85	32	26	12
31-01-20	189	96	33	27	11
TLV	200	100	60	80	80

SHIV MANDIR: NPUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-01-20	185	88	30	22	16
29-01-20	174	72	32	24	14
TLV	200	100	60	80	80

J. Shrivastava

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

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

YEAR: 2019
MONTH: JANUARY

FAN HOUSE: NPUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	14-01-20	40.8	40.1
JAN 2020	28-01-20	45.6	44.2
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

SAONER UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



JANUARY-20

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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 Air quality monitoring data	 TC-7102
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TEST REPORT NO.	RIN/TR/JANUARY-20/A4	DATE OF ISSUE	29.02.2020
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(23:1999), NO _x (06:2006), SO ₂ (02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	SAONER UG	SAMPLING PLAN : LQR 47	

C.M. OFFICE - SAONER - I UG : NSNUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-01-20	275	196	38	26	18
31-01-20	244	122	49	28	18
TLV	600	300	60	120	120

C.M. OFFICE- SAONER- II UG : NSNUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-01-20	320	244	44	32	12
31-01-20	280	130	42	32	22
TLV	600	300	60	120	120

COLONY WATER FILTER PLANT: NSNUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-01-20	175	74	36	27	18
31-01-20	185	76	28	24	14
TLV	200	100	60	80	80

KOTODI VILLAGE : NSNUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-01-20	168	65	32	26	14
31-01-20	175	68	36	26	16
TLV	200	100	60	80	80

J. Shany

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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FUGITIVE DUST MONITORING DATA

CHP: NSNUF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
15-01-20	288	140	52

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SCIENTIFIC ASSISTANT



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TEST REPORT NO.	RIN/TR/JANUARY-20/W4	DATE OF ISSUE	29.02.2020
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
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
14-01-20	8.2	16	24	<2
30-01-20	8.1	16	28	<2
TLV	5.5 - 9.0	100	250	10

MINE WATER DISCHARGE II UG: NSNUW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
14-01-20	8.4	18	28	<2
30-01-20	7.8	24	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	4	10	2
14-01-20	8.1	24	32	<2
30-01-20	7.4	22	32	<2
TLV	5.5 - 9.0	100	250	10

J. Shany
SCIENTIFIC ASSISTANT

Deepanshu Sahu
DEEPANSHU SAHU
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NOISE LEVEL DATA

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

YEAR: 2019
MONTH: JANUARY

FAN HOUSE I UG: NSNUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	14-01-20	69.6	68.3
JAN 2020	28-01-20	69.8	67.6
TLV		75	70

FAN HOUSE II UG: NSNUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	14-01-20	70.2	69.2
JAN 2020	28-01-20	70.1	69.5
TLV		75	70

FAN HOUSE III UG: NSNUN3			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	14-01-20	68.8	67.3
JAN 2020	28-01-20	68.3	67.4
TLV		75	70

COLONY: NSNUN4			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	14-01-20	44.9	42.5
JAN 2020	28-01-20	44.6	43.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

SILEWARA UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



JANUARY 2020

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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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TEST REPORT NO.	RIN/TR/JANUARY-20/A1	DATE OF ISSUE	29.02.2020
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	SILEWARA UG	SAMPLING PLAN : LQR 47	

WATER FILTER FLANT: NSUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-01-20	190	114	36	29	18
31-01-20	235	160	27	28	16
TLV	600	300	60	120	120

V.T.C. SILEWARA: NSUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-01-20	180	74	32	27	19
31-01-20	215	144	25	26	14
TLV	600	300	60	120	120

MANDIR NEAR KANHAN RIVER: NSUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-01-20	165	86	29	26	18
30-01-20	174	89	28	27	17
TLV	200	100	60	80	80

CHANKAPUR PUMP HOUSE/ COLONY: NSUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-01-20	180	96	35	24	17
30-01-20	185	98	32	24	19
TLV	200	100	60	80	80


J. Shrivastava

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
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TEST REPORT NO.	RIN/TR/JANUARY-20/W1	DATE OF ISSUE	29.02.2020
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
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
14-01-20	8.3	22	32	<2
30-01-20	8.4	26	32	<2
TLV	5.5 - 9.0	100	250	10

J. Shrivastava

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JANUARY

FAN HOUSE: NSUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	14-01-20	70.1	68.6
JAN 2020	28-01-20	66.3	64.9
TLV		75	70

COLONY: NSUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	14-01-20	45.9	42.8
JAN 2020	28-01-20	42.4	41.2
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

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NAGPUR AREA

WESTERN COALFIELDS LTD.

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4	NOISE LEVEL DATA	6

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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TEST REPORT NO.	RIN/TR/JANUARY-20/A10	DATE OF ISSUE	29.02.2020
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(23:1999), NO _x (06:2006), SO ₂ (02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	SINGORI OC	SAMPLING PLAN : LQR 47	

CONTRACTOR CAMP: NSOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-01-20	158	62	34	27	17
29-01-20	190	85	36	27	17
TLV	600	300	60	120	120

SOHOLI VILLAGE : NSOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-01-20	132	46	32	24	16
30-01-20	142	46	28	24	18
TLV	200	100	60	80	80

HINGNA VILLAGE: NSOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-01-20	185	72	38	26	18
30-01-20	175	65	32	26	17
TLV	200	100	60	80	80

DORLI VILLAGE: NSOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-01-20	185	78	32	24	17
29-01-20	174	63	28	22	14
TLV	200	100	60	80	80


J. Shrivastava

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY


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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
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TEST REPORT NO.	RIN/TR/JANUARY-20/W10	DATE OF ISSUE	29.02.2020
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
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
04-01-20	6.9	16	24	<2
29-01-20	7.5	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: SINGORI OC

YEAR: 2020
MONTH: JANUARY

CONTRACTOR CAMP: NSON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	13-01-20	49.2	45.1
JAN 2020	28-01-20	48.7	47.2
TLV		75	70

SOHOLI VILLAGE : NSON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	13-01-20	46.3	42.8
JAN 2020	28-01-20	40.1	38.9
TLV		55	45

DRILLING SITE			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	13-01-20	51.8	43.2
JAN 2020	28-01-20	53.2	52.1
TLV		55	45

DOSING SITE			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	13-01-20	53.8	44.2
JAN 2020	28-01-20	51.6	50.2
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

DINESH OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



JANUARY 2020

Environment Laboratory
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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. 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	MANAGER OFFICE:	UM30A1
2	NEAR RLY. WEIGHT BRIDGE:	UM30A2
3	KANWA VILLAGE :	UM30A3
4	SIRPUR VILLAGE:	UM30A4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	UM30W1
2	ETP (WORKSHOP):	UM30W2

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NEAR PIT OFFICE:	UM30N1

Frequency of Monitoring:

AIR: Frequency of monitoring is as per the Env. (Protection) Amendment 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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TEST REPORT NO.	RIN/TR/JANUARY-20/A14	DATE OF ISSUE	29.02.2020
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	UMRER AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	DINESH OC	SAMPLING PLAN : LQR 47	

MANAGER OFFICE: UM30A1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-01-20	316	199	29	26	19
18-01-20	380	221	30	27	18
TLV	600	300	60	120	120

NEAR RLY. WEIGHT BRIDGE: UM30A2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-01-20	333	216	48	43	35
19-01-20	293	155	33	27	19
TLV	600	300	60	120	120

KANWA VILLAGE : UM30A3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-01-20	152	88	38	25	17
23-01-20	214	109	36	26	17
TLV	200	100	60	80	80

SIRPUR VILLAGE: UM30A4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-01-20	123	74	27	15	12
22-01-20	180	86	36	18	15
TLV	200	100	60	80	80


R. Annapurna

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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TEST REPORT NO.	RIN/TR/JANUARY-20/W14	DATE OF ISSUE	29.02.2020
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
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
11-01-20	7.2	20	32	<2
23-01-20	7.4	30	44	<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
08-01-20	7.5	40	52	<2
18-01-20	7.1	18	28	<2
TLV	5.5 - 9.0	100	250	10

R. Annapurna

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JANUARY

NEAR PIT OFFICE: UM3ON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	03-01-20	48.9	46.5
JAN 2020	21-01-20	47.8	45.4
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

GOKUL OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



JANUARY 2020

Environment Laboratory
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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
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TEST REPORT NO.	RIN/TR/JANUARY-20/A14	DATE OF ISSUE	29.02.2020
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	UMRER AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	GOKUL OC	SAMPLING PLAN : LQR 47	

CONTRACTOR CAMP: UGOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-01-20	263	153	35	27	19
21-01-20	332	213	31	27	19
TLV	600	300	60	120	120

BESUR VILLAGE : UGOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-01-20	210	138	29	27	19
04-01-20	234	131	27	26	18
07-01-20	267	188	26	27	19
08-01-20	293	124	22	22	15
18-01-20	214	113	29	21	16
19-01-20	185	88	30	24	16
21-01-20	171	92	33	27	18
22-01-20	160	95	33	27	19
TLV	200	100	60	80	80

NAND VILLAGE: UGOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-01-20	176	128	27	30	19
04-01-20	156	84	24	30	19
07-01-20	171	67	27	26	17
08-01-20	268	130	35	30	19
18-01-20	213	116	36	26	17
19-01-20	208	111	30	24	16
21-01-20	214	110	26	26	17
22-01-20	189	117	31	26	17
TLV	200	100	60	80	80

POLGAON VILLAGE : UGOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-01-20	238	109	33	26	17
04-01-20	186	107	26	26	17
07-01-20	212	99	24	26	17
08-01-20	169	96	28	27	19
18-01-20	186	105	28	26	17
19-01-20	211	120	26	24	16
21-01-20	216	112	27	26	17
22-01-20	197	108	28	26	17
TLV	200	100	60	80	80


R. Annapurna

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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TEST REPORT NO.	RIN/TR/JANUARY-20/W14	DATE OF ISSUE	29.02.2020
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
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
07-01-20	7.2	24	36	<2
17-01-20	7.1	18	28	<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
07-01-20	7.6	40	56	<2
17-01-20	7.4	28	40	<2
TLV	5.5 - 9.0	100	250	10

R. Annapurna

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JANUARY

CONTRACTOR CAMP: UGON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	06-01-20	52.7	48.4
JAN 2020	21-01-20	53.9	57.6
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

MAKARDHOKRA- II OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



JANUARY -2020

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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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TEST REPORT NO.	RIN/TR/JANUARY-20/A12	DATE OF ISSUE	29.02.2020
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	UMRER AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	MAKARDHOKRA- II OC	SAMPLING PLAN : LQR 47	

NEAR MANAGER OFFICE: UMOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-01-20	350	148	26	22	15
24-01-20	409	264	28	25	17
TLV	600	300	60	120	120

SAM OFFICE: UMOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-01-20	257	152	28	26	17
24-01-20	338	193	36	26	17
TLV	600	300	60	120	120

KANWA VILLAGE : UMOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-01-20	152	88	38	25	17
23-01-20	214	109	36	26	17
TLV	200	100	60	80	80

NEAR PUMP HOUSE COLONY: UMOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-01-20	250	105	33	25	17
23-01-20	181	109	26	27	19
TLV	200	100	60	80	80

R. Annapurna

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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TEST REPORT NO.	RIN/TR/JANUARY-20/W12	DATE OF ISSUE	29.02.2020
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
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
08-01-20	7.4	34	44	<2
22-01-20	7.2	22	32	<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 **YEAR: 2020**
NAME OF PROJECT: MAKARDHOKRA- II OC **MONTH: JANUARY**

NEAR PIT OFFICE: UMON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	03-01-20	47.7	43.5
JAN 2020	21-01-20	48.6	44.7
TLV		75	70

COLONY (UMRER OC): UMON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	05-12-19	41.6	41.8
JAN 2020	23-12-19	40.8	40.2
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

MAKARDHOKHRA- I OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



JANUARY 2020

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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:	UM10A1
2	NEAR PUMP HOUSE COLONY:	UM10A2
3	KANWA VILLAGE :	UM10A3
4	SIRPUR VILLAGE :	UM10A4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	UM10W1

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NEAR PIT OFFICE:	UM10N1

Frequency of Monitoring:

AIR: Frequency of monitoring is as per the Env. (Protection) Amendment 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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TEST REPORT NO.	RIN/TR/JANUARY-20/A13	DATE OF ISSUE	29.02.2020
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	UMRER AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	MAKARDHOKHRA- I OC	SAMPLING PLAN : LQR 47	

PIT OFFICE: UM10A1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-01-20	356	215	27	25	17
23-01-20	332	207	31	27	19
TLV	600	300	60	120	120

NEAR PUMP HOUSE COLONY: UM10A2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-01-20	250	105	33	25	17
23-01-20	181	109	26	27	19
TLV	200	100	60	80	80

KANWA VILLAGE : UM10A3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-01-20	152	88	38	25	17
23-01-20	214	109	36	26	17
TLV	200	100	60	80	80

SIRPUR VILLAGE : UM10A4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-01-20	123	74	27	15	12
22-01-20	180	86	36	18	15
TLV	200	100	60	80	80

R. Annapurna

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
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TEST REPORT NO.	RIN/TR/JANUARY-20/W13	DATE OF ISSUE	29.02.2020
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
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
10-01-20	7.2	22	32	<2
22-01-20	7.3	24	36	<2
TLV	5.5 - 9.0	100	250	10

R. Annapurna

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
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NOISE LEVEL DATA

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

NEAR PIT OFFICE: UM10N1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	03-01-20	48.6	44.3
JAN 2020	21-01-20	51.9	48.3
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

MURPAR UG

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



JANUARY 2020

Environment Laboratory

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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
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TEST REPORT NO.	RIN/TR/JANUARY-20/A15	DATE OF ISSUE	29.02.2020
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	UMRER AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	MURPAR UG	SAMPLING PLAN : LQR 47	

NEAR PIT OFFICE: UMUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-01-20	336	214	36	26	17
20-01-20	328	201	29	25	17
TLV	600	300	60	120	120

NEAR MAGAZINE BUILDING: UMUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-01-20	406	245	30	26	17
20-01-20	349	156	31	24	16
TLV	600	300	60	120	120

COLONY : UMUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-01-20	186	97	36	26	17
20-01-20	202	106	33	24	16
TLV	200	100	60	80	80

MORPAR VILLAGE : UMUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-01-20	207	104	37	26	17
20-01-20	150	92	34	17	16
TLV	200	100	60	80	80

R. Annapurna

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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TEST REPORT NO.	RIN/TR/JANUARY-20/W15	DATE OF ISSUE	29.02.2020
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
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
06-01-20	7.3	30	44	<2
19-01-20	7.6	24	36	<2
TLV	5.5 - 9.0	100	250	10

R. Annapurna

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JANUARY

FAN HOUSE: UMUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	06-01-20	69.9	67.8
JAN 2020	21-01-20	69.8	67.7
TLV		75	70

COLONY: UMUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	06-01-20	44.8	42.6
JAN 2020	21-01-20	44.2	42.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

UMRER OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



Jan-20

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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
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TEST REPORT NO.	RIN/TR/JANUARY-20/A11	DATE OF ISSUE	29-02-20
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
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 $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-01-20	268	171	50	26	17
23-01-20	340	268	36	26	17
TLV	600	300	60	120	120

NEAR WORKSHOP: UUOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-01-20	396	188	32	24	16
23-01-20	327	153	33	27	18
TLV	600	300	60	120	120

KANWA VILLAGE : UUOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-01-20	152	88	38	25	15
23-01-20	214	109	36	26	17
TLV	200	100	60	80	80

NEAR PUMP HOUSE COLONY: UUOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-01-20	250	105	33	25	17
23-01-20	181	109	26	27	19
TLV	200	100	60	80	80

R. Annapurna

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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FUGITIVE DUST MONITORING DATA

WEIGHT BRIDGE : NSNUF2			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
24-01-20	410	210	72

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
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TEST REPORT NO.	RIN/TR/JANUARY-20/W11	DATE OF ISSUE	29-02-20
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
NAME OF AREA	UMRER AREA	SAMPLING PLAN	LQR 47
NAME OF PROJECT	UMRER OC	SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: UUOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
10-01-20	7.2	30	28	<2
23-01-20	7.4	100	44	<2
TLV	5.5 - 9.0	100	250	10

ETP DISCHARGE: UUOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
08-01-20	7.4	20	48	<2
23-01-20	7.2	100	32	<2
TLV	5.5 - 9.0	100	250	10

STP DISCHARGE : UUOW3		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS (in mg/l)	BOD (in mg/l)
DETECTION LIMIT	10	2
09-01-20	40	11.45
23-01-20	46	30
TLV	100	30

R. Annapurna

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JANUARY

CHP: UUON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	03.01.20	56.7	48.2
JAN 2020	21.01.20	52.7	51.6
TLV		75	70

COLONY: UUON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	03.01.20	45.7	42.8
JAN 2020	21.01.20	47.8	42.3
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

GHUGUS OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



JANUARY 2020

Environment Laboratory
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CMPDI

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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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TEST REPORT NO.	RIN/TR/JANUARY-20/A38	DATE OF ISSUE	29.02.2020
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	WANI AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	GHUGUS OC	SAMPLING PLAN : LQR 47	

ACC PATCH NEAR ACC COLONY: WGOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-01-20	240	162	64	40	11
21-01-20	232	150	60	33	16
TLV	600	300	60	120	120

SAM OFFICE: WGOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-01-20	264	174	65	44	13
21-01-20	252	162	65	37	11
TLV	600	300	60	120	120

RAM NAGAR COLONY : WGOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-01-20	206	110	62	28	<10
21-01-20	198	100	40	30	10
TLV	200	100	60	80	80

GHUGUS VILLAGE (GP OFFICE): WGOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-01-20	380	200	54	50	<10
21-01-20	340	188	41	40	13
TLV	200	100	60	80	80



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NOISE LEVEL DATA

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

CHP: WGON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	13-01-20	55.6	53.9
JAN 2020	20-01-20	56.3	54.5
TLV		75	70

COLONY: WGON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	13-01-20	45.5	42.8
JAN 2020	20-01-20	43.5	41.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

KOLGAON OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



JANUARY 2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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 load of the area.

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 PLAN	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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TEST REPORT NO.	RIN/TR/JANUARY-20/A39	DATE OF ISSUE	29.02.2020
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	WANI AREA	SAMPLING METHOD LSOP 4	
NAME OF PROJECT	KOLGAON OC	SAMPLING PLAN : LQR 47	

MANAGER OFFICE: WKOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-01-20	272	178	62	45	14
23-01-20	258	164	46	34	11
TLV	600	300	60	120	120

SAM OFFICE: WKOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-01-20	302	170	62	42	13
23-01-20	280	154	62	34	14
TLV	600	300	60	120	120

KOLGAON VILLAGE : WKOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-01-20	188	120	66	36	15
24-01-20	162	102	41	30	10
TLV	200	100	60	80	80

LSHNAGAR TOWNSHIP - FILTER PLANT: WKOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-01-20	142	84	50	22	<10
23-01-20	156	90	36	22	<10
TLV	200	100	60	80	80




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TEST REPORT NO.	RIN/TR/JANUARY-20/W39	DATE OF ISSUE	29.02.2020
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
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
13-01-20	7.2	28	24	<2
23-01-20	7.1	30	32	<2
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: JANUARY

MANAGER OFFICE: WKON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	13-01-20	50.4	48.7
JAN 2020	20-01-20	51.1	50.1
TLV		75	70

COLONY (MUGOLI): WKON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	13-01-20	46.7	43.8
JAN 2020	20-01-20	45.4	43.7
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

MUGOLI OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



JANUARY 2020

Environment Laboratory

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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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TEST REPORT NO.	RIN/TR/JANUARY-20/A36	DATE OF ISSUE	29.02.2020
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	WANI AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	MUGOLI OC	SAMPLING PLAN : LQR 47	

SUB - STATION: WMOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-01-20	378	232	62	58	12
22-01-20	342	200	60	28	<10
TLV	600	300	60	120	120

SAM OFFICE: WMOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-01-20	302	170	62	42	13
23-01-20	280	154	62	34	14
TLV	600	300	60	120	120

KAILSHNAGAR TOWNSHIP FILTER PLANT : WMOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-01-20	142	84	50	22	<10
23-01-20	156	90	36	22	<10
TLV	200	100	60	80	80

TUBEWELL NEAR SAKHARA VILLAGE: WMOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-01-20	188	110	48	27	<10
23-01-20	174	102	41	30	10
TLV	200	100	60	80	80



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TEST REPORT NO.	RIN/TR/JANUARY-20/W36	DATE OF ISSUE	29.02.2020
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
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
13-01-20	7.1	58	52	<2
22-01-20	7.3	56	44	<2
TLV	5.5 - 9.0	100	250	10

ETP DISCHARGE WMOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
13-01-20	6.1	40	44	<2
22-01-20	6.4	60	52	<2
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: JANUARY

CHP: WMON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	13-01-20	65.2	62.9
JAN 2020	20-01-20	64.2	62.9
TLV		75	70

COLONY: WMON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	13-01-20	46.7	43.8
JAN 2020	20-01-20	45.7	43.7
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

NILJAI DEEP OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



JANUARY 2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

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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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TEST REPORT NO.	RIN/TR/JANUARY-20/A35	DATE OF ISSUE	29.02.2020
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	WANI AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	NILJAI DEEP OC	SAMPLING PLAN : LQR 47	

CIVIL OFFICE- NILJAI: WNOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-01-20	136	94	58	23	<10
19-01-20	146	100	40	25	11
TLV	600	300	60	120	120

WORKSHOP ETP NOCM: WNOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-01-20	290	180	60	45	14
19-01-20	254	162	52	32	13
TLV	600	300	60	120	120

NILJAI COLONY: WNOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-01-20	126	74	52	22	<10
19-01-20	138	80	32	28	<10
TLV	200	100	60	80	80

TARODA VILLAGE: WNOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-01-20	160	90	56	31	<10
19-01-20	154	84	34	30	<10
TLV	200	100	60	80	80



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TEST REPORT NO.	RIN/TR/JANUARY-20/W35	DATE OF ISSUE	29.02.2020
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
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
06-01-20	6.2	26	24	<2
19-01-20	6	32	34	<2
TLV	5.5 - 9.0	100	250	10

ETP (NILJAI-S) TREATED WATER: WNOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
06-01-20	6.9	56	60	<2
19-01-20	7.2	72	68	<2
TLV	5.5 - 9.0	100	250	10

DOMESTIC EFFLUENT) - TREATED WATER: WNOW3		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS(in mg/l)	BOD(in mg/l)
DETECTION LIMIT	10	2
06-01-20	44	16
19-01-20	36	12
TLV	100	30


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NOISE LEVEL DATA

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

CHP: WNON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	13-01-20	64.9	63.2
JAN 2020	20-01-20	63.6	61.9
TLV		75	70

CHP (S): WNON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	13-01-20	63.1	60.7
JAN 2020	20-01-20	62.1	61.2
TLV		75	70

COLONY: WNON3			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	13-01-20	45.4	41.1
JAN 2020	20-01-20	44.1	42.1
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

PENGANGA OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



JANUARY 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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INTRODUCTION

Penganga Opencast Project is located in Wani Tahsil of Yeotmal district of Maharashtra State. It is administered by

Wani Area of Western Coalfields Limited. Drainage of the area is controlled by Wardhariver and Penganga river. The climate of this area is tropical. The above mentioned industries and the busy road traffic are also expected to contribute in increasing the pollution load of the area.

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Fugitive Dust Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

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TEST REPORT NO.	RIN/TR/JANUARY-20/A40	DATE OF ISSUE	29.02.2020
NAME OF CUSTOMER	GM (Env.),(HQ) WCL, 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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	WANI AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	PENGANGA OC	SAMPLING PLAN : LQR 47	

MANAGER OFFICE: WPOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-01-20	200	112	58	28	11
23-01-20	214	124	50	34	11
TLV	600	300	60	120	120

NEAR MINE: WPOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-01-20	192	120	62	36	<10
22-01-20	182	110	44	28	10
TLV	600	300	60	120	120

VIRUR VILLAGE : WPOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-01-20	194	110	60	27	<10
22-01-20	202	126	51	32	11
TLV	200	100	60	80	80

GADEGAON VILLAGE: WPOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-01-20	198	118	58	30	<10
22-01-20	170	104	42	26	<10
TLV	200	100	60	80	80



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TEST REPORT NO.	RIN/TR/JANUARY-20/W40	DATE OF ISSUE	29.02.2020
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
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
13-01-20	7.3	42	48	<2
22-01-20	7.5	52	56	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

NAME OF AREA: WANI AREA YEAR: 2020
NAME OF PROJECT: PENGANGA OC MONTH: JANUARY

NEAR WORKSHOP: WPON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	13-01-20	54.7	49.6
JAN 2020	20-01-20	55.7	53.2
TLV		75	

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ENVIRONMENTAL MONITORING REPORT

GHONSA OC

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 800003



JANUARY 2020

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

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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.

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TEST REPORT NO.	RIN/TR/JANUARY-20/A55	DATE OF ISSUE	29.02.2020
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	WANI NORTH	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	GHONSA OC	SAMPLING PLAN : LQR 47	

MANAGER OFFICE: WNGOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-01-20	244	186	62	34	26
23-01-20	264	190	58	48	30
TLV	600	300	60	120	120

SAM OFFICE/ CANTEEN: WNGOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-01-20	154	70	40	20	18
23-01-20	140	80	40	18	14
TLV	600	300	60	120	120

GHONSA VILLAGE: WNGOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-01-20	176	78	46	28	24
23-01-20	180	86	42	28	24
TLV	200	100	60	80	80

GUEST HOUSE/ COLONY: WNGOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-01-20	128	72	42	26	16
23-01-20	166	74	44	26	21
TLV	200	100	60	80	80



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TEST REPORT NO.	RIN/TR/JANUARY-20/W55	DATE OF ISSUE	29.02.2020
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
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
13-01-20	6.3	28	44	<2
21-01-20	7.1	20	28	<2
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: JANUARY

MANAGER OFFICE: WNGON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	13-01-20	55.8	54.7
JAN 2020	21-01-20	54.9	54.2
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

JUNAD OC

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 8000003



JANUARY 2020

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

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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.

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TEST REPORT NO.	RIN/TR/JANUARY-20/A53	DATE OF ISSUE	29.02.2020
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	WANI NORTH	SAMPLING METHOD :	LSOP 4
NAME OF PROJECT	JUNAD OC	SAMPLING PLAN :	LQR 45

SAM OFFICE: WNJOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-01-20	218	128	52	34	24
25-01-20	248	156	60	36	20
TLV	600	300	60	120	120

BORGAON VILLAGE: WNJOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-01-20	170	88	40	24	20
25-01-20	166	80	40	28	21
TLV	200	100	60	80	80

BHALAR TOWNSHIP: WNJOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-01-20	178	96	44	22	17
29-01-20	136	76	38	20	18
TLV	200	100	60	80	80

UKNI VILLAGE: WNJOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-01-20	160	82	36	28	24
25-01-20	138	84	36	20	17
TLV	200	100	60	80	80




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TEST REPORT NO.	RIN/TR/JANUARY-20/W53	DATE OF ISSUE	29.02.2020
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
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
10-01-20	6.7	26	40	<2
23-01-20	7.3	22	32	<2
TLV	5.5 - 9.0	100	250	10

ETP (TREATED): WNJOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
10-01-20	6.4	30	48	<2
23-01-20	7.6	28	40	<2
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: JANUARY

MANAGER OFFICE: WNJON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	09-01-20	52.6	51.2
JAN 2020	17-01-20	52.2	51.1
TLV		75	70

BHALAR COLONY: WNJON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	09-01-20	42.5	41.1
JAN 2020	17-01-20	41.5	40.6
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

KOLARPIMPRI OC

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 8000003



JANUARY-20

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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
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TEST REPORT NO.	RIN/TR/JANUARY-20/A50	DATE OF ISSUE	29.02.2020
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	WANI NORTH	SAMPLING METHOD :	LSOP 4
NAME OF PROJECT	KOLARPIMPRI OC	SAMPLING PLAN :	LQR 47


SUBSTATION KOLARPIMPRI: WNKO1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-01-20	248	132	56	28	20
24-01-20	280	164	60	36	24
TLV	600	300	60	120	120

REST SHELTER: WNKO2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-01-20	188	120	42	18	16
24-01-20	168	112	44	20	17
TLV	600	300	60	120	120


PIMPRI VILLAGE: WNKO3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-01-20	144	74	40	18	16
24-01-20	176	92	44	24	16
TLV	200	100	60	80	80

WATER FILTER PLANT PRAGATI NAGAR: WNKO4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-01-20	136	80	42	20	17
17-01-20	136	74	34	16	12
TLV	200	100	60	80	80


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TEST REPORT NO.	RIN/TR/JANUARY-20/W50	DATE OF ISSUE	29.02.2020
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
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
07-01-20	6.5	24	40	<2
23-01-20	6.5	20	28	<2
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: JANUARY

COLONY PRAGATI NAGAR: WNKON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	09-01-20	42.4	41.5
JAN 2020	17-01-20	42.7	41.3
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

KUMBHARKHANI UG

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 8000003



JANUARY 2020

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

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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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TEST REPORT NO.	RIN/TR/JANUARY-20/A54	DATE OF ISSUE	29.02.2020
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	WANI NORTH	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	KUMBHARKHANI UG	SAMPLING PLAN : LQR 47	


PROJECT MANAGER OFFICE: WNKUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
16-01-20	362	186	66	38	24
24-01-20	380	210	70	36	24
TLV	600	300	60	120	120

SAM OFFICE/ CANTEEN: WNKUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-01-20	154	70	40	20	18
23-01-20	140	80	40	18	14
TLV	600	300	60	120	120

GUEST HOUSE / COLONY: WNKUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-01-20	128	72	42	26	16
23-01-20	166	74	44	26	21
TLV	200	100	60	80	80

GHONSA VILLAGE: WNKUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-01-20	176	78	46	28	24
23-01-20	180	86	42	28	24
TLV	200	100	60	80	80


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NOISE LEVEL DATA

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

FAN HOUSE: WNKUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	13-01-20	45.6	44.8
JAN 2020	21-01-20	44.7	43.5
TLV		75	70

COLONY: WNKUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	13-01-20	43.7	42.9
JAN 2020	21-01-20	43.1	42.6
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

PIMPALGAON OC

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 8000003



JANUARY-2020

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

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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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TEST REPORT NO.	RIN/TR/JANUARY-20/A51	DATE OF ISSUE	29.02.2020
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	WANI NORTH	SAMPLING METHOD :	LSOP 4
NAME OF PROJECT	PIMPALGAON OC	SAMPLING PLAN :	LQR 47

SAM OFFICE: WNPOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-01-20	256	138	54	24	20
25-01-20	288	168	52	36	24
TLV	600	300	60	120	120


WORKSHOP: WNPOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-01-20	216	120	50	28	20
18-01-20	256	154	56	24	16
TLV	600	300	60	120	120

WATER FILTER PLANT PRAGATI NAGAR: WNPOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-01-20	136	80	42	20	17
17-01-20	136	74	34	16	12
TLV	200	100	60	80	80

BORGAON VILLAGE: WNPOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-01-20	218	128	52	34	24
25-01-20	248	156	60	36	20
TLV	200	100	60	80	80



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JANUARY

CHP: WNPN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	09-01-20	64.2	63.1
JAN 2020	17-01-20	63.3	61.2
TLV		75	70

COLONY PRAGATI NAGAR: WNPN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	09-01-20	42.4	41.5
JAN 2020	17-01-20	42.7	41.3
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

RAJUR UG

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 8000003



JANUARY 2020

Environment Laboratory
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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.

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TEST REPORT NO.	RIN/TR/JANUARY-20/A52	DATE OF ISSUE	29.02.2020
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	WANI NORTH	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	RAJUR UG	SAMPLING PLAN : LQR 47	


NEAR BANDEWADA INCLINE: WNRUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-01-20	318	168	58	34	16
22-01-20	362	192	66	36	24
TLV	600	300	60	120	120

SAM OFFICE: WNRUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-01-20	274	128	48	24	22
22-01-20	280	154	60	24	20
TLV	600	300	60	120	120


PIT OFFICE/ COLONY: WNRUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-01-20	188	90	48	26	16
22-01-20	198	94	52	36	24
TLV	600	300	60	120	120

HUTMENT: WNRUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-01-20	156	86	40	20	17
22-01-20	148	82	34	18	16
TLV	200	100	60	80	80


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TEST REPORT NO.	RIN/TR/JANUARY-20/W52	DATE OF ISSUE	29.02.2020
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
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
12-01-20	7.2	20	28	<2
21-01-20	6.9	26	36	<2
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: JANUARY

FAN HOUSE: WNRUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	13-01-20	68.7	67.9
JAN 2020	21-01-20	68.4	67.8
TLV		75	70

COLONY: WNRUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	13-01-20	43.7	42.6
JAN 2020	21-01-20	43.5	42.5
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

UKNI OC

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 8000003



JANUARY-2020

Environment Laboratory
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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.

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TEST REPORT NO.	RIN/TR/JANUARY-20/A49	DATE OF ISSUE	29-02-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	43890		
TEST REQUIRED	IS-5182 [PM-10(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	WANI NORTH	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	UKNI OC	SAMPLING PLAN : LQR 47	

WORKSHOP PREMISES: WNUOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-01-20	200	92	40	24	20
28-01-20	224	100	48	24	20
TLV	600	300	60	120	120

BHALAR TOWNSHIP: WNUOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-01-20	178	96	44	22	17
29-01-20	136	76	38	20	18
TLV	200	100	60	80	80

UKNI VILLAGE: WNUOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-01-20	160	82	36	28	24
25-01-20	138	84	36	20	17
TLV	200	100	60	80	80

PIMPRI VILLAGE: WNUOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-01-20	144	74	40	18	16
24-01-20	176	92	44	24	16
TLV	200	100	60	80	80




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TEST REPORT NO.	RIN/TR/JANUARY-20/W49	DATE OF ISSUE	29-02-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	43890		
TEST REQUIRED	IS 3025 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
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
10-01-20	6.9	28	36	<2
17-01-20	7.4	48	68	<2
TLV	5.5 - 9.0	100	250	10

ETP (TREATED): WNUOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
10-01-20	6.7	36	44	<2
17-01-20	6.9	52	76	<2
TLV	5.5 - 9.0	100	250	10

STP DISCHARGE: WNUOW3		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS (in mg/l)	BOD (in mg/l)
DETECTION LIMIT	10	2
10-01-20	44	14
17-01-20	36	12
TLV	100	30



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JANUARY

CHP: WNUON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	09-01-20	65.1	63.8
JAN 2020	17-01-20	64.2	62.8
TLV		75	70

BHALAR COLONY: WNUON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	09-01-20	42.5	41.1
JAN 2020	17-01-20	41.5	40.6
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

WANI RAILWAY SIDING

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 800003



JANUARY 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

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3	WATER QUALITY MONITORING DATA	-
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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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TEST REPORT NO.	RIN/TR/JANUARY-20/A56	DATE OF ISSUE	29.02.2020
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	WANI NORTH AREA	SAMPLING METHOD :	LSOP 4
NAME OF PROJECT	WANI RAILWAY SIDING	SAMPLING PLAN :	LQR 47

FARMHOUSE NEAR MSH6 : WNRS1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-01-20	376	248	64	36	18
09-01-20	338	224	60	28	22
15-01-20	330	218	54	44	28
16-01-20	378	244	68	40	26
17-01-20	366	244	76	50	38
18-01-20	324	222	58	44	26
28-01-20	350	210	54	48	36
29-01-20	386	260	66	44	28
TLV	600	300	60	120	120

SHETHKARI DHANYA BAZAR : WNRS2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-01-20	158	92	50	20	16
09-01-20	190	108	56	34	22
15-01-20	174	92	50	24	18
16-01-20	196	94	46	26	20
17-01-20	142	90	42	26	21
18-01-20	198	94	46	18	12
28-01-20	184	98	54	24	16
29-01-20	176	90	58	28	12
TLV	200	100	60	80	80

RES.HOUSE VITTALWADI WANI: WNRS3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-01-20	136	82	40	20	16
09-01-20	158	86	42	24	18
15-01-20	138	80	46	20	17
16-01-20	168	86	50	36	18
17-01-20	162	80	50	24	21
18-01-20	148	86	46	36	24
28-01-20	174	90	60	28	20
29-01-20	186	96	56	36	24
TLV	200	100	60	80	80



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NOISE LEVEL DATA

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

COAL STOCK YARD: WNRS1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	09-01-20	42.8	41.3
JAN 2020	17-01-20	43.4	42.1
TLV		75	70

NEAR INCHARGE OFFICE: WNRS2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	09-01-20	54.5	53.1
JAN 2020	17-01-20	53.9	52.6
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

AMBARA OC

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



JANUARY-2020

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

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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INTRODUCTION

Ambara OC Project is located in Chhindwara district of Madhya Pradesh. The project is administered by Kanhan

ENV. MONITORING REPORT
AMBARA OC

Area of Western Coalfields Limited. The climate of the area is tropical. Transportation roads, agricultural and local activities, vehicular traffic etc also contribute to the pollution.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER OFFICE :	KAOA1
2	PIT OFFICE- MOHAN:	KAOA2
3	COLONY- HEALTH CENTRE:	KAOA3
4	AMBARA VILLAGE:	KAOA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP:	KAOF1

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER OFFICE:	KAON1
2	COLONY (MOHAN/MAORI):	KAON2

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TEST REPORT NO.	RIN/TR/JANAURY-20/A74	DATE OF ISSUE	29-02-2020
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	AMBARA OC	SAMPLING PLAN : LQR 47	

MANAGER OFFICE : KAOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-01-2020	203	169	40	24	19
25-01-2020	175	139	28	19	14
TLV	600	300	60	120	120

PIT OFFICE- MOHAN: KAOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-01-2020	137	114	35	22	19
31-01-2020	196	174	41	20	15
TLV	600	300	60	120	120

COLONY- HEALTH CENTRE: KAOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-01-2020	166	137	34	20	19
25-01-2020	150	125	43	19	11
TLV	200	100	60	80	80

AMBARA VILLAGE: KAOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-01-2020	109	82	37	21	17
25-01-2020	141	110	32	21	16
TLV	200	100	60	80	80

Labimbhume

SCIENTIFIC ASSISTANT

Deepanshu Sahu

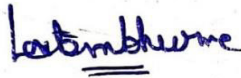
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FUGITIVE DUST MONITORING DATA

CHP			
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/l)		
	SPM*	PM10	PM _{2.5}
DETECTION LIMIT	5	5	2
31.01.2020	493	380	86



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JANUARY

MANAGER OFFICE: KAON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN-2020	07-01-2020	50.8	46.9
JAN-2020	21-01-2020	51.7	47.9
TLV		75	70

COLONY (MOHAN/MAORI): KAON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN-2020	07-01-2020	47.8	44.7
JAN-2020	21-01-2020	48.8	45.9
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

AMBARA UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



JANUARY-2020



Environment Laboratory
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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
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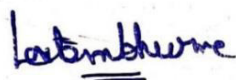
TEST REPORT NO.	RIN/TR/JANUARY-20/A72	DATE OF ISSUE	29-02-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(23:1999), NO _x (06:2006), SO ₂ (02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	AMBARA UG	SAMPLING PLAN : LQR 47	

SAM OFFICE- AMBARA : KAUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-01-20	154	125	42	19	17
31-01-20	187	155	34	19	12
TLV	600	300	60	120	120

PIT OFFICE- MOHAN: KAUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-01-20	137	114	35	22	19
31-01-20	196	174	41	20	15
TLV	600	300	60	120	120

COLONY- HEALTH CENTRE: KAUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-01-20	166	137	34	20	19
25-01-20	150	125	43	19	11
TLV	200	100	60	80	80

AMBARA VILLAGE: KAUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-01-20	109	82	37	21	17
25-01-20	141	110	32	21	16
TLV	200	100	60	80	80



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JANUARY

COLONY(MOHAN/MAORI) KAUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN-2020	07-01-20	47.8	44.7
JAN-2020	21-01-20	48.8	45.9
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

AREA WORKSHOP

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



JANUARY-2020



Environment Laboratory
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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.

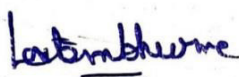
WATER: Water quality is monitored on fortnightly basis

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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TEST REPORT NO.	RIN/TR/JANUARY-20/A80	DATE OF ISSUE	29-02-20
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD	: LSOP 4
NAME OF PROJECT	AREA WORKSHOP	SAMPLING PLAN	: LQR 47

AREA WORKSHOP : KAWA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-01-20	187	151	29	20	14
31-01-20	140	118	39	21	16
TLV	600	300	60	120	120



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NOISE LEVEL DATA

NAME OF AREA: KANHAN AREA YEAR: 2020
NAME OF PROJECT: AREA WORKSHOP MONTH: JANUARY

WORKSHOP PREMISES: KAWN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	07-01-20	47.6	43.9
JAN 2020	21-01-20	49.9	48.4
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

DAMUA OC

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



JANUARY-2020

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4	NOISE LEVEL DATA	5

INTRODUCTION

Damua OC Project is located in Chhindwara district of Madhya Pradesh. The project is administered by Kanhan Area of Western Coalfields Limited. Drainage of the area is mainly controlled by Kanhan river and Bhor nalla (a tributary of Kanhan river).The climate of the area is tropical.Transportation roads, agricultural and local activities ,vehicular traffic etc also contributes to the pollution.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	OC OFFICE :	KDOA1
2	SAM OFFICE- DAMUA:	KDOA2
3	RESCUE STATION (NEAR INCLINE 24&25):	KDOA3
4	NANDORA VILLAGE:	KDOA4

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NEAR MANAGER OFFICE:	KDON1

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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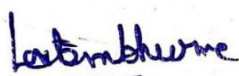
TEST REPORT NO.	RIN/TR/JANUARY-20/A78	DATE OF ISSUE	29-02-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	DAMUA OC	SAMPLING PLAN : LQR 47	

OC OFFICE : KDOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-01-2020	204	169	33	24	17
24-01-2020	215	182	35	20	14
TLV	600	300	60	120	120

SAM OFFICE- DAMUA: KDOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-01-2020	201	177	34	23	17
23-01-2020	182	160	26	15	<10
TLV	600	300	60	120	120

RESCUE STATION (NEAR INCLINE 24&25): KDOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-01-2020	122	100	44	22	17
24-01-2020	113	93	24	16	<10
TLV	600	300	60	120	120

NANDORA VILLAGE: KDOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-01-2020	215	185	49	21	16
23-01-2020	229	191	36	19	14
TLV	200	100	60	80	80



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JANUARY

NEAR MANAGER OFFICE: KDON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN-2020	07-01-2020	48.5	46.7
JAN-2020	21-01-2020	48.7	44.8
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

DAMUA UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



JANUARY-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

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INTRODUCTION

Damua UG is located in Chhindwara district of Madhya Pradesh. The project is administered by Kanhan Area of Western Coalfields Limited. Drainage of the area is mainly controlled by Kanhan river and Bhor nalla (a tributary of Kanhan river). The climate of the area is tropical. Transportation roads, agricultural and local activities ,vehicular traffic etc also contributes to the pollution.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	SAM OFFICE- DAMUA:	KDUA1
2	RESCUE STATION (NEAR INCLINE 24&25):	KDUA2
3	NANDORA VILLAGE:	KDUA3

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	COLONY:	KDUN1

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TEST REPORT NO.	RIN/TR/JANUARY-20/A77	DATE OF ISSUE	29-02-20
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	DAMUA UG	SAMPLING PLAN : LQR 47	

SAM OFFICE- DAMUA: KDUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/l)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-01-20	201	177	34	23	17
23-01-20	182	160	26	15	<10
TLV	600	300	60	120	120

RESCUE STATION (NEAR INCLINE 24&25): KDUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/l)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-01-20	122	100	44	22	17
24-01-20	113	93	24	16	<10
TLV	600	300	60	120	120

NANDORA VILLAGE: KDUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/l)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-01-20	215	185	49	21	16
23-01-20	229	191	36	19	14
TLV	200	100	60	80	80



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JANUARY

COLONY: KDUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN-2020	07-01-20	45.2	43.9
JAN-2020	21-01-20	42.4	41.6
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

GHORAWARI OC

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



JANUARY-2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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INTRODUCTION

Ghorawadi OC Project is located in Chhindwara district of Madhya Pradesh state. The project is administered by Kanhan Area of Western Coalfields Limited. The climate of the area is tropical.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER OFFICE-OC :	KGOA1
2	SAM - OFFICE GHORAWARI :	KGOA2
3	COLONY- HEALTH CENTRE JHARNA:	KGOA3
4	PANARA VILLAGE:	KGOA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	PALACHAURI:	KGOF1

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER OFFICE:	KGON1
2	COLONY (JHARNA UG)	KGON2

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TEST REPORT NO.	RIN/TR/JANUARY-20/A76	DATE OF ISSUE	29-02-20
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	GHORAWARI OC	SAMPLING PLAN : LQR 47	

MANAGER OFFICE-OC : KGOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{M}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-01-20	225	188	37	18	13
25-01-20	257	233	23	15	12
TLV	600	300	60	120	120

SAM - OFFICE GHORAWARI : KGOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{M}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-01-20	232	190	30	19	13
24-01-20	252	182	49	25	18
TLV	600	300	60	120	120

COLONY- HEALTH CENTRE JHARNA: KGOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{M}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-01-20	103	85	33	21	15
25-01-20	147	113	24	14	<10
TLV	200	100	60	80	80

PANARA VILLAGE: KGOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{M}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-01-20	149	116	42	19	13
25-01-20	162	128	30	20	11
TLV	200	100	60	80	80

Labankhume

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

NAME OF AREA: KANHAN AREA
NAME OF PROJECT: GHORAWARI OC

YEAR: 2020
MONTH: JANUARY

MANAGER OFFICE: KGON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN-2020	07-01-20	49.7	45.3
JAN-2020	21-1--20	49.8	46.4
TLV		75	70

COLONY (JHARNA UG) KGON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN-2020	07-01-20	45.7	42.5
JAN-2020	21-01-20	45.5	43.6
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

JHARNA - UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



JANUARY-2020

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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.

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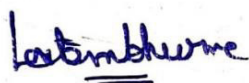
TEST REPORT NO.	RIN/TR/JANUARY-20/A75	DATE OF ISSUE	29-02-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD	:LSOP 4
NAME OF PROJECT	JHARNA - UG	SAMPLING PLAN	: LQR 47

MANAGER OFFICE- JHARNA UG : KJUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{M}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-01-2020	175	149	32	20	16
24-01-2020	162	132	37	23	14
TLV	600	300	60	120	120

SAM OFFICE- GHORAWARI: KJUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{M}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-01-2020	232	190	30	19	13
24-01-2020	252	182	49	25	18
TLV	600	300	60	120	120

COLONY- HEALTH CENTRE JHARNA: KJUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{M}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-01-2020	103	85	33	21	15
25-01-2020	147	113	24	14	<10
TLV	200	100	60	80	80

PANARA VILLAGE: KJUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{M}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-01-2020	149	116	42	19	13
25-01-2020	162	128	30	20	11
TLV	200	100	60	80	80



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NOISE LEVEL DATA

NAME OF AREA: KANHAN AREA YEAR: 2020
NAME OF PROJECT: JHARNA - UG MONTH: JANUARY

FAN HOUSE: KJUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN-2020	07-01-2020	69.7	66.9
JAN-2020	21-01-2020	70.8	67.9
TLV		75	70

COLONY: KJUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN-2020	07-01-2020	45.7	42.5
JAN-2020	21-01-2020	45.5	43.6
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

MOHAN/ MAORI UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



JANUARY-2020

Environment Laboratory

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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :


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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TEST REPORT NO.	RIN/TR/JANUARY-20/A73	DATE OF ISSUE	29-02-2020
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	MOHAN/ MAORI UG	SAMPLING PLAN : LQR 47	

SAM OFFICE- AMBARA : KMUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-01-2020	154	125	42	19	17
31-01-2020	187	155	34	19	12
TLV	600	300	60	120	120

PIT OFFICE- MOHAN: KMUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-01-2020	137	114	35	22	19
31-01-2020	196	174	41	20	15
TLV	600	300	60	120	120

COLONY- HEALTH CENTRE: KMUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-01-2020	166	137	34	20	19
25-01-2020	150	125	43	19	11
TLV	200	100	60	80	80

AMBARA VILLAGE: KMUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-01-2020	109	82	37	21	17
25-01-2020	141	110	32	21	16
TLV	200	100	60	80	80

Labambhurne

SCIENTIFIC ASSISTANT

Deepanshu Sahu

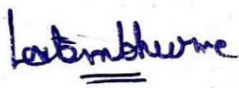
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TEST REPORT NO.	RIN/TR/JANUARY-20/W73	DATE OF ISSUE	29-02-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS 3025 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
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
09-01-2020	6.4	52	32	<2
22-01-2020	6.9	56	36	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

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

FAN HOUSE: KMUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	07-01-2020	70.6	68.9
JAN 2020	21-01-2020	71.5	69.8
TLV		75	70

COLONY: KMUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	07-01-2020	47.8	44.7
JAN 2020	21-01-2020	48.8	45.9
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

NANDAN UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



JANUARY-2020

Environment Laboratory

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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	SAM OFFICE- NANDAN I UG:	KNUA1
2	PIT OFFICE- NANDAN II UG:	KNUA2
3	HEALTH CENTRE- NANDAN UG:	KNUA3
4	NANDAN WATER FILTER PLANT:	KNUA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE DISCHARGE:	KNUW1

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE UG II:	KNUN1
2	COLONY:	KNUN2

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TEST REPORT NO.	RIN/TR/JANUARY-20/A71	DATE OF ISSUE	29-02-2020
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	NANDAN UG	SAMPLING PLAN : LQR 47	

SAM OFFICE- NANDAN I UG: KNUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-01-2020	225	193	56	20	18
23-01-2020	247	224	33	19	13
TLV	600	300	60	120	120

PIT OFFICE- NANDAN II UG: KNUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-01-2020	218	182	42	16	13
23-01-2020	225	173	45	23	17
TLV	600	300	60	120	120

HEALTH CENTRE- NANDAN UG: KNUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-01-2020	222	199	27	18	10
23-01-2020	187	165	33	24	13
TLV	200	100	60	80	80

NANDAN WATER FILTER PLANT: KNUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-01-2020	240	205	41	22	17
22-01-2020	290	264	33	22	20
TLV	200	100	60	80	80

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Deepanshu Sahu

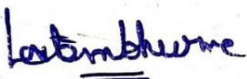
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TEST REPORT NO.	RIN/TR/JANUARY-20/W71	DATE OF ISSUE	29-02-2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS 3025 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	NANDAN UG	SAMPLING PLAN : LQR 47	

MINE DISCHARGE: KNUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
07-01-2020	7.4	34	36	<2
21-01-2020	7.2	24	32	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JANUARY

FAN HOUSE UG II: KNUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN -2020	07-01-2020	68.8	67.9
JAN-2020	21-01-2020	69.7	66.8
TLV		75	70

COLONY: KNUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN-2020	07-01-2020	45.6	43.8
JAN-2020	21-01-2020	45.8	44.9
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

NANDAN WASHERY

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



JANUARY -2020

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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Noise Level Monitoring location :


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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TEST REPORT NO.	RIN/TR/JANUARY-20/A70	DATE OF ISSUE	29-02-20
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	NANDAN WASHERY	SAMPLING PLAN : LQR 47	

SUBSTATION : KNWA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-01-20	224	174	33	22	18
22-01-20	220	168	24	23	16
TLV	600	300	60	120	120

SAM OFFICE- NANDAN I UG: KNWA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-01-20	225	193	56	20	18
23-01-20	247	224	33	19	13
TLV	600	300	60	120	120

COLONY-GUEST HOUSE: KNWA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-01-20	138	101	34	17	12
22-01-20	184	149	30	23	17
TLV	200	100	60	80	80

NANDAN WATER FILTER PLANT: KNWA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-01-20	240	205	41	22	17
22-01-20	290	264	33	22	20
TLV	200	100	60	80	80

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NOISE LEVEL DATA

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

WASHERY: KNWN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN.2020	07-01-20	53.8	48.8
JAN.2020	21-01-20	54.9	47
TLV		75	70

COLONY: KNWN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN.2020	07-01-20	46.7	42.5
JAN.2020	21-01-20	47.8	43.5
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

TANDSI UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



JANUARY-2020

Environment Laboratory
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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :


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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

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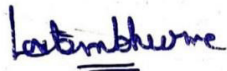
TEST REPORT NO.	RIN/TR/JANUARY-20/A79	DATE OF ISSUE	29-02-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD :	LSOP 4
NAME OF PROJECT	TANDSI UG	SAMPLING PLAN :	LQR 47

WORKSHOP : KTUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-01-20	306	248	49	25	21
21-01-20	273	224	33	22	20
TLV	600	300	60	120	120

LAMP ROOM: KTUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-01-20	202	173	35	20	15
21-01-20	217	190	28	22	17
TLV	600	300	60	120	120

COLONY-NEAR HEALTH CENTRE: KTUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-01-20	291	243	40	25	15
21-01-20	316	264	44	24	20
TLV	200	100	60	80	80

JET HOSTEL: KTUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-01-20	489	423	63	27	22
21-01-20	458	417	74	24	19
TLV	200	100	60	80	80




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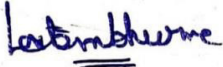
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TEST REPORT NO.	RIN/TR/JANUARY-20/W79	DATE OF ISSUE	29-02-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS 3025 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
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
06-01-20	7.3	24	40	<2
20-01-20	7.1	22	36	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JANUARY

FAN HOUSE: KTUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	07-01-20	70.3	68.5
JAN 2020	21-01-20	45.6	43.9
TLV		75	70

COLONY: KTUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	07-01-20	45.5	42.9
JAN 2020	21-01-20	43.5	42.3
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

CHATTARPUR-I & II UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



JANUARY 2020

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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
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TEST REPORT NO.	RIN/TR/JANUARY -20/A81	DATE OF ISSUE	29-02-20
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	PATHAKHERA AREA	SAMPLING METHOD :	LSOP 4
NAME OF PROJECT	CHATTARPUR-I & II UG	SAMPLING PLAN :	LQR 47

SUBSTATION- CHATTARPUR I UG: PKCUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-01-20	333	166	55	41	13
20-01-20	270	135	54	34	11
TLV	600	300	60	120	120


SAM OFFICE: PKCUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-01-20	132	88	31	26	<10
20-01-20	174	90	36	27	<10
TLV	600	300	60	120	120

SUBSTATION- CHATTARPUR II UG: PKCUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-01-20	228	114	40	34	10
20-01-20	186	98	40	35	11
TLV	600	300	60	120	120

CHATTARPUR VILLAGE: PKCUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-01-20	189	94	35	30	10
20-01-20	182	100	35	30	10
TLV	200	100	60	80	80



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TEST REPORT NO.	RIN/TR/JANUARY -20/W81	DATE OF ISSUE	29-02-20
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
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
05-01-20	7.6	34	36	<2
19-01-20	7.4	22	32	<2
TLV	5.5 - 9.0	100	250	10

MINE DISCHARGE-II UG: PKCUW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
05-01-20	8.01	22	28	<2
19-01-20	8.37	26	36	<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: JANUARY**

FAN HOUSE- I UG: PKCUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	03-01-20	69.4	69.2
JAN 2020	17-01-20	70.6	70.2
TLV		75	70
FAN HOUSE- II UG: PKCUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	03-01-20	69.9	69.5
JAN 2020	17-01-20	70.9	70.6
TLV		75	70
COLONY			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	03-01-20	43.9	41.7
JAN 2020	17-01-20	42.1	42.7
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

SARNI UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



JANUARY -2020

Environment Laboratory

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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
2	NALA WATER:	PKSUW2

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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TEST REPORT NO.	RIN/TR/JANUARY -20/A83	DATE OF ISSUE	29-02-2020
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	PATHAKHERA AREA	SAMPLING METHOD	:LSOP 4
NAME OF PROJECT	SARNI UG	SAMPLING PLAN	: LQR 47

SUBSTATION SARNI UG: PKSUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-01-2020	194	82	33	26	<10
18-01-2020	169	93	37	34	13
TLV	600	300	60	120	120

NEAR DY. CME OFFICE: PKSUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-01-2020	220	132	51	40	12
18-01-2020	240	120	48	42	13
TLV	600	300	60	120	120

GM OFFICE ENTRANCE GATE: PKSUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-01-2020	320	160	45	40	12
18-01-2020	280	140	56	36	16
TLV	200	100	60	80	80

PATHAKHERA COLONY: PKSUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-01-2020	186	77	30	25	<10
18-01-2020	176	90	33	27	<10
TLV	200	100	60	80	80



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TEST REPORT NO.	RIN/TR/JANUARY -20/W83	DATE OF ISSUE	29-02-2020
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
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
03-01-2020	7.77	32	36	<2
17-01-2020	8.1	34	40	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

NAME OF AREA: PATHAKHERA AREA
NAME OF PROJECT: SARNI UG

YEAR: 2020
MONTH: JANUARY

FAN HOUSE: PKSUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	03-01-2020	70.9	68.6
JAN 2020	17-01-2020	48.4	44.8
TLV		75	70

COLONY: PKSUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	03-01-2020	47.6	44.9
JAN 2020	17-01-2020	71.8	69.7
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

SHOBHAPUR UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



JANUARY -2020



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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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TEST REPORT NO.	RIN/TR/JANUARY -20/A82	DATE OF ISSUE	29-02-2020
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	PATHAKHERA AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	SHOBHAPUR UG	SAMPLING PLAN : LQR 47	

SAM OFFICE: PKSUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-01-2020	162	96	36	27	<10
19-01-2020	170	94	30	28	<10
TLV	600	300	60	120	120

SUBSTATION: PKSUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-01-2020	180	99	37	29	<10
19-01-2020	168	84	27	25	<10
TLV	600	300	60	120	120

SHOBHAPUR VILLAGE: PKSUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-01-2020	172	95	38	28	<10
19-01-2020	174	96	38	33	10
TLV	200	100	60	80	80

SHOBHAPUR COLONY: PKSUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-01-2020	180	108	43	37	11
19-01-2020	162	81	32	29	<10
TLV	200	100	60	80	80

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TEST REPORT NO.	RIN/TR/JANUARY-20/W82	DATE OF ISSUE	29-02-2020
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
NAME OF AREA	PATHAKHERA AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	SHOBHAPUR UG	SAMPLING PLAN : LQR 47	

MINE DISCHARGE: PKSUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
04-01-2020	8.23	28	24	<2
18-01-2020	8.04	30	32	<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: JANUARY

FAN HOUSE: PKSUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	03-01-2020	71.2	68.8
JAN 2020	17-01-2020	48.4	44.8
TLV		75	70

COLONY: PKSUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	03-01-2020	46.3	43.7
JAN 2020	17-01-2020	71.8	69.7
TLV		44.5	45

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ENVIRONMENTAL MONITORING REPORT

TAWA II UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



JANUARY 2020



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INTRODUCTION

Tawa UG Project is located in Betul district of Madhya Pradesh. The project is administered by Pathakhera Area of Western Coalfields Limited. The drainage of the area is mainly controlled by Tawa river. A number of seasonal nallahs also flow through the area. The climate of the area is tropical. Transportation roads, agricultural and local activities, vehicular traffic etc also contributes to the pollution

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER OFFICE- TAWA II:	PKT2UA1
2	SAM OFFICE:	PKT2UA2
3	MPEB COLONY:	PKT2UA3
4	HIRA PALLA/BHAGIKHAAPA VILLAGE:	PKT2UA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE DISCHARGE:	PKTUW1

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE:	PKTUN1
2	COLONY:	PKTUN2

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report quality monitoring data	Air	 TC-7102
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TEST REPORT NO.	RIN/TR/JANUARY -20/A85	DATE OF ISSUE	29-02-20
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	PATHAKHERA AREA	SAMPLING METHOD :	LSOP 4
NAME OF PROJECT	TAWA II UG	SAMPLING PLAN :	LQR 47

MANAGER OFFICE- TAWA II: PKT2UA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-01-20	164	98	40	30	10
17-01-20	173	95	38	33	13
TLV	600	300	60	120	120

SAM OFFICE: PKT2UA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-01-20	250	84	34	30	10
17-01-20	242	121	48	34	14
TLV	600	300	60	120	120

MPEB COLONY: PKT2UA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-01-20	120	96	37	26	<10
17-01-20	155	79	32	24	<10
TLV	200	100	60	80	80

HIRA PALLA/BHAGIKHAAPA VILLAGE: PKT2UA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-01-20	140	90	33	24	<10
17-01-20	194	155	54	36	<10
TLV	200	100	60	80	80



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TEST REPORT NO.	RIN/TR/JANUARY-20/W85	DATE OF ISSUE	29-02-20
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
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
03-01-20	7.67	28	20	<2
17-01-20	7.44	30	32	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

NAME OF AREA: PATHAKHERA AREA
NAME OF PROJECT: TAWA II UG

YEAR: 2020
MONTH: JANUARY

FAN HOUSE: PKTUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	03-01-20	70.2	68.9
JAN 2020	17-01-20	71.1	70.2
TLV		75	70

COLONY: PKTUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	03-01-20	45.9	43.3
JAN 2020	17-01-20	42.3	41.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

TAWA UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



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INTRODUCTION

Tawa UG Project is located in Betul district of Madhya Pradesh. The project is administered by Pathakhera Area of Western Coalfields Limited. The drainage of the area is mainly controlled by Tawa river. A number of seasonal nallahs also flow through the area. The climate of the area is tropical. Transportation roads, agricultural and local activities, vehicular traffic etc also contributes to the pollution

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	SAM OFFICE:	PKTUA1
2	MANAGER OFFICE- TAWA II:	PKTUA2
3	MPEB COLONY:	PKTUA3
4	HIRA PALLA/BHAGIKHAAPA VILLAGE:	PKTUA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE DISCHARGE:	PKTUW1

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE:	PKTUN1
2	COLONY:	PKTUN2

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TEST REPORT NO.	RIN/TR/JANUARY-20/A84	DATE OF ISSUE	29-02-20
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	PATHAKHERA AREA	SAMPLING METHOD :	LSOP 4
NAME OF PROJECT	TAWA UG	SAMPLING PLAN :	LQR 47


SAM OFFICE: PKTUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-01-20	250	84	34	30	10
17-01-20	242	121	48	34	14
TLV	600	300	60	120	120

MANAGER OFFICE- TAWA II: PKTUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-01-20	164	98	40	30	10
17-01-20	173	95	38	33	13
TLV	600	300	60	120	120


MPEB COLONY: PKTUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-01-20	120	96	37	26	<10
17-01-20	155	79	32	24	<10
TLV	200	100	60	80	80

HIRA PALLA/BHAGIKHAAPA VILLAGE: PKTUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-01-20	140	90	33	24	<10
17-01-20	194	155	54	36	<10
TLV	200	100	60	80	80


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TEST REPORT NO.	RIN/TR/JANUARY-20/W84	DATE OF ISSUE	29-02-20
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
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
03-01-20	7.74	20	28	<2
17-01-20	7.36	26	18	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

NAME OF AREA: PATHAKHERA AREA
NAME OF PROJECT: TAWA UG

YEAR: 2020
MONTH: JANUARY

FAN HOUSE: PKTUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	03-01-20	69.3	68.6
JAN 2020	17-01-20	66.9	64.4
TLV		75	70

COLONY: PKTUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN 2020	03-01-20	45.9	43.3
JAN 2020	17-01-20	42.3	41.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

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

Noise Level Monitoring location :


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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report quality monitoring data	Air	 TC-7102
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TEST REPORT NO.	RIN/TR/JANUARY-20/A57	DATE OF ISSUE	29-02-2020
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	PENCH AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	BARKUHI OC	SAMPLING PLAN : LQR 47	

MANAGER OFFICE : PBOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-01-2020	165	56	36	28	16
30-01-2020	190	75	38	27	18
TLV	600	300	60	120	120

SAM OFFICE: PBOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-01-2020	210	112	32	26	18
30-01-2020	144	46	28	22	14
TLV	600	300	60	120	120

CHANDAMETA WORKSHOP: PBOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-01-2020	156	65	36	24	17
29-01-2020	165	56	34	24	14
TLV	600	300	60	120	120

CENTRAL SCHOOL: PBOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-01-2020	144	52	38	27	14
30-01-2020	138	56	32	24	16
TLV	200	100	60	80	80

J. Shany

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JANUARY

NEAR BARKUHI HOSPITAL: PBON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN-2020	04-01-2020	45.6	44.2
JAN-2020	27-01-2020	50.2	48.3
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

CHANDAMETA WORKSHOP

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



JANUARY-2020

Environment Laboratory
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INTRODUCTION

Chandameta Workshop is located in Chhindwara district of Madhya Pradesh. The project is administered by Pench Area of Western Coalfields Limited. Drainage of the area is mainly controlled by Pench river. The climate of the area is tropical. Transportation roads, agricultural and local activities, vehicular traffic etc also contributes to the pollution.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHANDAMETA WORKSHOP :	PCWA1

Noise Level Monitoring location :


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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

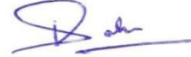
NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report quality monitoring data	Air	 TC-7102
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TEST REPORT NO.	RIN/TR/JANUARY-20/A58	DATE OF ISSUE	29-02-2020
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	PENCH AREA	SAMPLING METHOD:	LSOP 4
NAME OF PROJECT	CHANDAMETA WORKSHOP	SAMPLING PLAN	: LQR 47

CHANDAMETA WORKSHOP : PCWA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-01-2020	156	65	36	24	17
29-01-2020	165	56	34	24	14
TLV	600	300	60	120	120


 J. Shany
 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

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ENVIRONMENTAL MONITORING REPORT

CHINDA OC

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



JANUARY-2020



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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 quality monitoring data	Air	 TC-7102
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TEST REPORT NO.	RIN/TR/JANUARY-20/A64	DATE OF ISSUE	29-02-2020
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	PENCH AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	CHINDA OC	SAMPLING PLAN : LQR 47	

SAM OFFICE: PCOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-01-2020	210	56	38	14	14
28-01-2020	192	45	28	12	14
TLV	600	300	60	120	120

CHINDA OC - SITE: PCOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-01-2020	182	84	42	27	19
30-01-2020	220	82	38	27	17
TLV	600	300	60	120	120


CHINDA VILLAGE: PCOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-01-2020	172	74	38	28	18
18-01-2020	90	39	24	22	12
TLV	200	100	60	80	80

CHINDA COLONY: PCOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-01-2020	165	72	34	24	17
28-01-2020	160	65	38	24	16
TLV	200	100	60	80	80

J. Shan
SCIENTIFIC ASSISTANT

Deepanshu Sahu
DEEPANSHU SAHU
AUTHORIZED SIGNATORY


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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
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TEST REPORT NO.	RIN/TR/JANUARY-20/W64	DATE OF ISSUE	29-02-2020
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
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
11-01-2020	7.3	28	36	<2
19-01-2020	68	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: PENCH AREA
NAME OF PROJECT: CHINDA OC

YEAR: 2020
MONTH: JANAUARY

NEAR MANAGER OFFICE: PCON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN-2020	04-01-2020	49.5	48.3
JAN-2020	23-01-2020	47.8	44.6
TLV		75	70

COLONY: PCON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN-2020	04-01-2020	45.1	44.2
JAN-2020	23-01-2020	45.1	41.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

GANPATI UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



JANUARY-2020



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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 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	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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TEST REPORT NO.	RIN/TR/JANUARY-20/A60	DATE OF ISSUE	29-02-20
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	PENCH AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	GANPATI UG	SAMPLING PLAN : LQR 47	

LAMP ROOM : PGUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-01-20	190	88	38	26	18
25-01-20	230	108	42	28	17
TLV	600	300	60	120	120

MANAGER OFFICE: PGUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-01-20	192	75	38	28	16
29-01-20	236	84	27	22	12
TLV	600	300	60	120	120

COLONY EDC- DISPENSARY: PGUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-01-20	144	52	29	24	18
29-01-20	165	67	38	27	14
TLV	200	100	60	80	80

GUEST HOUSE- PARASIA: PGUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-01-20	156	58	28	22	16
29-01-20	172	74	32	24	16
TLV	200	100	60	80	80

J. Shrivastava

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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FUGITIVE DUST MONITORING DATA

BG SIDDING : PMUF2			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
09-01-20	425	226	65



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JANUARY

FAN HOUSE: PGUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN-2020	04-01-20	49.8	47.6
JAN-2020	27-01-20	69.5	68.2
TLV		75	70

COLONY: PGUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN-2020	04-01-20	45.4	43.9
JAN-2020	27-01-20	43.6	42.5
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

JAMUNIYA UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



JANUARY -2020



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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 :	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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TEST REPORT NO.	RIN/TR/JANUARY-20/A69	DATE OF ISSUE	29-02-20
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	PENCH AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	JAMUNIYA UG	SAMPLING PLAN : LQR 47	

MANAGER OFFICE : PJUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-01-20	177	95	42	26	17
22-01-20	165	108	38	27	17
TLV	600	300	60	120	120


SUBSTATION: PJUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-01-20	145	75	37	27	14
22-01-20	156	65	34	24	16
TLV	600	300	60	120	120

JAMUNIYA VILLAGE: PJUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-01-20	136	62	32	22	18
22-01-20	142	56	32	22	14
TLV	200	100	60	80	80

J. Shan
SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY


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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
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TEST REPORT NO.	RIN/TR/JANUARY -20/W69	DATE OF ISSUE	29-02-20
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
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
06-01-20	7.6	14	24	<2
21-01-20	6.9	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: PENCH AREA
NAME OF PROJECT: JAMUNIYA UG

YEAR: 2020
MONTH: JANUARY

MANAGER OFFICE: PJUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN-2020	09-01-20	51.4	50.2
JAN-2020	23-01-20	46.4	42.7
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

MAHADEOPURI UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



JANUARY-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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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 quality monitoring data	Air	 TC-7102
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TEST REPORT NO.	RIN/TR/JANUARY-20/A59	DATE OF ISSUE	29-02-20
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(23:1999), NO _x (06:2006), SO ₂ (02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	PENCH AREA	SAMPLING METHOD: LSOP 4	
NAME OF PROJECT	MAHADEOPURI UG	SAMPLING PLAN : LQR 47	

MANAGER OFFICE : PMUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-01-20	192	75	38	28	16
29-01-20	236	84	27	22	12
TLV	600	300	60	120	120

LAMP ROOM: PMUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-01-20	190	88	38	26	18
25-01-20	230	108	42	28	17
TLV	600	300	60	120	120

GUEST HOUSE PARASIA: PMUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-01-20	156	58	28	22	16
29-01-20	172	74	32	24	16
TLV	200	100	60	80	80

COLONY EDC- DISPENSARY: PMUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-01-20	144	52	29	24	18
29-01-20	165	67	38	27	14
TLV	200	100	60	80	80

J. Shan
SCIENTIFIC ASSISTANT

Deepanshu Sahu
DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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FUGITIVE DUST MONITORING DATA

EDC SIDING: PMUF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM*	PM10	PM _{2.5}
DETECTION LIMIT	5	5	2
09-01-20	270	112	44




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DEEPANSHU SAHU
AUTHORIZED SIGNATORY


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TEST REPORT NO.	RIN/TR/JANUARY-20/W59	DATE OF ISSUE	29-02-20
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
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
11-01-20	6.8	22	32	<2
29-01-20	7.7	26	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: PENCH AREA
NAME OF PROJECT: MAHADEOPURI UG

YEAR: 2020
MONTH: JANUARY

FAN HOUSE: PMUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN-2020	04-01-20	69.4	68.2
JAN-2020	27-01-20	68.9	67.5
TLV		75	70

COLONY: PMUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN-2020	04-01-20	44.6	43.4
JAN-2020	27-01-20	43.8	42.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

NEHARIA UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



JANUARY 2020

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

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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 quality monitoring data	Air	 TC-7102
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TEST REPORT NO.	RIN/TR/JANUARY-20/A67	DATE OF ISSUE	29-02-20
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(23:1999), NO _x (06:2006), SO ₂ (02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	PENCH AREA	SAMPLING METHOD: LSOP 4	
NAME OF PROJECT	NEHARIA UG	SAMPLING PLAN : LQR 47	

SAM OFFICE : PNUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-01-20	220	116	44	27	12
20-01-20	175	64	38	27	17
TLV	600	300	60	120	120

LAMP ROOM/ SUBSTATION: PNUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-01-20	190	84	38	24	16
20-01-20	184	92	34	24	12
TLV	600	300	60	120	120

NEHARIA VILLAGE: PNUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-01-20	174	66	37	28	18
20-01-20	184	92	34	24	12
TLV	200	100	60	80	80

BOKAI TOWNSHIP: PNUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-01-20	186	92	42	28	14
21-01-20	192	86	38	27	16
TLV	200	100	60	80	80

J. Shrivastava
SCIENTIFIC ASSISTANT

Deepanshu Sahu
DEEPANSHU SAHU
AUTHORIZED SIGNATORY


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TEST REPORT NO.	RIN/TR/JANUARY -20/W67	DATE OF ISSUE	29-02-20
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
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
06-01-20	7.3	18	28	<2
20-01-20	6.8	16	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: JANUARY

FAN HOUSE: PNUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN-2020	09-01-20	69.4	68.2
JAN-2020	23-01-20	69.4	67.2
TLV		75	70

COLONY: PNUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN-2020	09-01-20	44.3	43.8
JAN-2020	23-01-20	44.1	41.5
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

NEW SETHIA OC

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



JANUARY-2020

Environment Laboratory
NABL Accredited vide Cert. No. TC-7102
CMPDI
REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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
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TEST REPORT NO.	RIN/TR/JANUARY-20/A1	DATE OF ISSUE	29-02-20
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(23:1999), NOx(06:2006), SO2(02:2001)], PM-2.5(USEPA)& SPM*		
NAME OF AREA	PENCH AREA	SAMPLING METHOD	: LSOP 4
NAME OF PROJECT	NEW SETHIA OC	SAMPLING PLAN	: LQR 47

NEW SETHIA OC SITE: PSOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-01-20	290	110	56	28	14
28-01-20	230	95	42	27	14
TLV	600	300	60	120	120

SAM OFFICE: PSOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-01-20	210	56	38	14	14
28-01-20	192	45	28	12	14
TLV	600	300	60	120	120

CHINDA VILLAGE: PSOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-01-20	172	74	38	28	18
18-01-20	90	39	24	22	12
TLV	200	100	60	80	80

CHINDA COLONY: PSOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-01-20	165	72	34	24	17
28-01-20	160	65	38	24	16
TLV	200	100	60	80	80

J. Shay

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY


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TEST REPORT NO.	RIN/TR/JANUARY-20/W65	DATE OF ISSUE	29-02-20
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
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
12-01-20	6.9	18	28	<2
20-01-20	6.7	24	32	<2
TLV	5.5 - 9.0	100	250	10


SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JANUARY

NEAR MANAGER OFFICE: PSON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN-2020	04-01-20	49.8	48.5
JAN-2020	23-01-20	52.7	48.6
TLV		75	70

COLONY- CHINDA: PSON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN-2020	04-01-20	45.1	44.2
JAN-2020	23-01-20	45.1	41.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

SHIVPURI OC

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



JANUARY-2020

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

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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
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TEST REPORT NO.	RIN/TR/JANUARY-20/A63	DATE OF ISSUE	29-02-20
NAME OF CUSTOMER	WCL, 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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	PENCH AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	SHIVPURI OC	SAMPLING PLAN : LQR 47	

SITE OFFICE: PSOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-01-20	165	82	36	28	17
18-01-20	310	165	38	27	17
TLV	600	300	60	120	120

SUBSTATION-VISHNUPURI UG: PSOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-01-20	242	110	38	26	14
25-01-20	255	120	44	28	14
TLV	600	300	60	120	120


COLONY GUEST HOUSE SHIVPURI: PSOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-01-20	152	65	32	12	16
18-01-20	138	65	32	24	16
TLV	200	100	60	80	80

CHINDA VILLAGE: PSOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-01-20	172	74	38	28	18
18-01-20	90	39	24	22	12
TLV	200	100	60	80	80

J. Shan
SCIENTIFIC ASSISTANT

Deepanshu Sahu
DEEPANSHU SAHU
AUTHORIZED SIGNATORY


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TEST REPORT NO.	RIN/TR/JANUARY-20/W63	DATE OF ISSUE	29-02-20
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
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
10-01-20	6.9	24	32	<2
18-01-20	7.1	12	20	<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: SHIVPURI OC

YEAR: 2020
MONTH: JANUARY

NEAR MANAGER OFFICE: PSON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN-2020	09-01-20	50.4	49.6
JAN-2020	23-01-20	53.9	51.4
TLV		75	70

COLONY: PSON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN-2020	09-01-20	44.7	43.8
JAN-2020	23-01-20	44.7	42.9
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

THESGORA MATHANI -UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



JANUARY-2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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
5	MANAGER OFFICE- THESGORA	PTUA5

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 quality monitoring data	Air	 TC-7102
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TEST REPORT NO.	RIN/TR/JANUARY-20/A66	DATE OF ISSUE	29-02-2020
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(23:1999), NOx(06:2006), SO2(02:2001)], PM-2.5(USEPA)& SPM*		
NAME OF AREA	PENCH AREA	SAMPLING METHOD	: LSOP 4
NAME OF PROJECT	THESGORA MATHANI -UG	SAMPLING PLAN	: LQR 47


MATHANI VILLAGE: PTUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-01-2020	165	56	29	22	14
20-01-2020	134	45	27	24	16
TLV	200	100	60	80	80

SAM OFFICE: PTUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-01-2020	238	120	46	24	16
20-01-2020	165	74	38	24	18
TLV	600	300	60	120	120

MANAGER OFFICE- MATHANI: PTUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-01-2020	190	84	32	24	16
20-01-2020	140	56	32	28	18
TLV	600	300	60	120	120

JHURE COLONY- FILTER PLANT PTUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-01-2020	174	63	38	22	17
18-01-2020	136	82	44	27	17
TLV	200	100	60	80	80


 SCIENTIFIC ASSISTANT



 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
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TEST REPORT NO.	RIN/TR/JANUARY-20/W66	DATE OF ISSUE	29-02-2020
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
NAME OF AREA	PENCH AREA	SAMPLING METHOD	LSOP 5
NAME OF PROJECT	THESGORA MATHANI -UG	SAMPLING PLAN	LQR 47

MINE DISCHARGE: PTUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
05-01-2020	7.5	26	32	<2
19-01-2020	7.1	28	36	<2
TLV	5.5 - 9.0	100	250	10


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

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ENVIRONMENTAL MONITORING REPORT

URDHAN OC

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



JANUARY-2020

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

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INTRODUCTION

UrdhanOC project is located in Chhindwara district of Madhya Pradesh. The project is administered by Pench Area of Western Coalfields Limited. The drainage of area is mainly controlled by the Perennial Gunorrivier 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
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TEST REPORT NO.	RIN/TR/JANUARY-20/A68	DATE OF ISSUE	29-02-20
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(23:1999), NOx(06:2006), SO2(02:2001)], PM-2.5(USEPA)& SPM*		
NAME OF AREA	PENCH AREA	SAMPLING METHOD :	LSOP 4
NAME OF PROJECT	URDHAN OC	SAMPLING PLAN :	LQR 47

URDHAN MANAGER OFFICE: PUOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-01-20	210	110	38	28	19
20-01-20	235	122	44	32	18
TLV	600	300	60	120	120

URDHAN VILLAGE: PUOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-01-20	152	67	34	26	18
21-01-20	145	75	36	28	19
TLV	200	100	60	80	80

NEHARIA VILLAGE: PUOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-01-20	174	66	37	28	18
20-01-20	184	92	34	24	12
TLV	200	100	60	80	80

BOKAI TOWNSHIP: PUOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-01-20	186	92	42	28	14
21-01-20	192	86	38	27	16
TLV	200	100	60	80	80

J. Shrivastava

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JANUARY

NEAR MANGER OFFICE: PUON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN-2020	09-01-20	50.4	49.6
JAN-2020	23-01-20	50.2	46.4
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

VISHNUPURI -II UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



JANUARY -20

Environment Laboratory
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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	DHALA 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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TEST REPORT NO.	RIN/TR/JANUARY-20/A62	DATE OF ISSUE	29-02-20
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(23:1999), NOx(06:2006), SO2(02:2001)],PM-2.5(USEPA)& SPM*		
NAME OF AREA	PENCH AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	VISHNUPURI -II UG	SAMPLING PLAN : LQR 47	

SAM OFFICE: PV2UA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-01-20	224	96	42	32	16
18-01-20	242	112	46	32	18
TLV	600	300	60	120	120

SUBSTATION: PV2UA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-01-20	242	110	38	26	14
25-01-20	255	120	44	28	14
TLV	600	300	60	120	120


COLONY GUEST HOUSE SHIVPURI: PV2UA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-01-20	152	65	32	12	16
18-01-20	138	65	32	24	16
TLV	200	100	60	80	80

DHALA VILLAGE: PV2UA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-01-20	190	134	38	27	19
TLV	200	100	60	80	80

J. Shany
SCIENTIFIC ASSISTANT

Deepanshu Sahu
DEEPANSHU SAHU
AUTHORIZED SIGNATORY


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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
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TEST REPORT NO.	RIN/TR/JANUARY-20/W62	DATE OF ISSUE	29-02-20
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 (pH(Part 11), O & G (Part 39), TSS (Part 17), BOD (Part 44)), COD: APHA 5220		
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
08-01-20	7.2	26	36	<2
18-01-20	8.2	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 YEAR: 2020
NAME OF PROJECT: VISHNUPURI -II UG MONTH: JANUARY

FAN HOUSE UG-I: PV2UN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN-2020	04-01-20	69.8	67.5
JAN-2020	27-01-20	69.6	68.4
TLV		75	70

COLONY (VISHNUPURI -I): PV2UN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN-2020	04-01-20	43.9	42.8
JAN-2020	27-01-20	44.2	43.1
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

VISHNUPURI -I UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



JANUARY-20

Environment Laboratory
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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	DHALA 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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TEST REPORT NO.	RIN/TR/JANUARY-20/A61	DATE OF ISSUE	31.01.2020
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(23:1999), NO _x (06:2006), SO ₂ (02:2001)], PM-2.5(USEPA)& SPM*		
NAME OF AREA	PENCH AREA	SAMPLING METHOD :	LSOP 4
NAME OF PROJECT	VISHNUPURI -I UG	SAMPLING PLAN :	LQR 47

SAM OFFICE: PV1UA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-01-20	224	96	42	32	16
18-01-20	242	112	46	32	18
TLV	600	300	60	120	120

SUBSTATION: PV1UA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-01-20	242	110	38	26	14
25-01-20	255	120	44	28	14
TLV	600	300	60	120	120

COLONY GUEST HOUSE SHIVPURI: PV1UA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-01-20	152	65	32	12	16
18-01-20	138	65	32	24	16
TLV	200	100	60	80	80

DHALA VILLAGE: PV1UA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-01-20	190	134	38	27	19
TLV	200	100	60	80	80

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: VISHNUPURI -I UG

YEAR: 2020
MONTH: JANUARY

COLONY (VISHNUPURI -I): PV1UN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JAN-2020	04-01-20	43.9	42.8
JAN-2020	27-01-20	44.2	43.1
TLV		55	45