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ENVIRONMENTAL MONITORING REPORT

BALLARPUR OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



43770

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 Air quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A20	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	BALLARPUR AREA	YEAR	2019
NAME OF PROJECT	BALLARPUR OC	MONTH	NOVEMBER

MANAGER OFFICE- BALLARPUR UG: BBOA1					
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
11-11-19	471	368	58	51	15
30-11-19	395	288	61	45	14
TLV	600	300	60	120	120

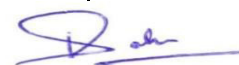
SUBSTATION: BBOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/l)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-11-19	342	267	64	40	12
26-11-19	536	391	69	47	14
TLV	600	300	60	120	120

PREMISES OF SUB AREA OFFICE: BBOA3					
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
11-11-19	274	214	64	42	13
30-11-19	390	285	58	43	13
TLV	600	300	60	120	120

FILTER PLANT COLONY: BBOA4					
DATE OF SAMPLING	PARAMETERS				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-11-19	171	137	44	34	10
30-11-19	190	141	39	31	<10
TLV	200	100	60	80	80



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FUGITIVE DUST MONITORING DATA

CHP/ COAL LOADING POINT: BBOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/l)		
	SPM*	PM10	PM _{2.5}
DETECTION LIMIT	5	5	2
26-11-19	489	352	61

WEIGHT BRIDGE: BBOF2			
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/l)		
	SPM*	PM10	PM _{2.5}
DETECTION LIMIT	5	5	2
26-11-19	352	253	54

RAILWAY SIDING: BBOF3			
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/l)		
	SPM*	PM10	PM _{2.5}
DETECTION LIMIT	5	5	2
26-11-19	442	318	59



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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W20	DATE OF ISSUE	31.12.19
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	BALLARPUR AREA	YEAR	2019
NAME OF PROJECT	BALLARPUR OC	MONTH	NOVEMBER

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
30-11-19	7.58	34	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
11-11-19	7.58	54	44	<2
26-11-19	7.62	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: 2019
MONTH: NOVEMBER

CHP: BBON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	12-11-19	58.8	57.5
NOV 2019	29-11-19	60.2	59.5
TLV		75	70

COLONY (BALLARPUR UG): BBON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	12-11-19	43.8	42.4
NOV 2019	29-11-19	44.3	43.7
TLV		55	45

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BALLARPUR UG

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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.

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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A19	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	BALLARPUR AREA	YEAR	2019
NAME OF PROJECT	BALLARPUR UG	MONTH	NOVEMBER


MANAGER OFFICE- BALLARPUR UG: BBUA1					
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
11-11-19	471	368	58	51	15
30-11-19	395	288	61	45	14
TLV	600	300	60	120	120

SUBSTATION: BBUA2					
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
11-11-19	342	267	64	40	12
26-11-19	536	391	69	47	14
TLV	600	300	60	120	120

PREMISES OF SUB AREA OFFICE: BBUA3					
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
11-11-19	274	214	64	42	13
30-11-19	390	285	58	43	13
TLV	600	300	60	120	120

FILTER PLANT COLONY: BBUA4					
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
11-11-19	171	137	44	34	10
30-11-19	190	141	39	31	<10
TLV	200	100	60	80	80


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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W19	DATE OF ISSUE	31.12.19
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	BALLARPUR AREA	YEAR	2019
NAME OF PROJECT	BALLARPUR UG	MONTH	NOVEMBER

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
26-11-19	7.14	34	32	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

NAME OF AREA: BALLARPUR AREA YEAR: 2019
NAME OF PROJECT: BALLARPUR UG MONTH: NOVEMBER

FAN HOUSE: BBUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	12-11-19	70.1	68.7
NOV 2019	29-11-19	68.8	67.3
TLV		75	70

COLONY: BBUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	12-11-19	43.8	42.4
NOV 2019	29-11-19	44.3	43.7
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

GOURI- I& II (A) OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

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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:	#REF!

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.

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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A21	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	BALLARPUR AREA	YEAR	2019
NAME OF PROJECT	GOURI- I& II (A) OC	MONTH	NOVEMBER


MANAGER OFFICE- GOURI - I O/C: BGOA1					
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
15-11-19	416	315	68	41	12
29-11-19	414	302	65	47	14
TLV	600	300	60	120	120

SAM OFFICE GOURI- SUB AREA: BGOA2					
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
14-11-19	313	237	61	43	13
30-11-19	212	176	28	24	<10
TLV	600	300	60	120	120

GOURI COLONY/ FILTER PLANT: BGOA3					
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
15-11-19	194	155	50	39	12
30-11-19	68	50	14	11	<10
TLV	200	100	60	80	80

GOURI VILLAGE: BGOA2					
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
13-11-19	180	144	46	36	11
28-11-19	143	106	30	23	<10
TLV	200	100	60	80	80


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TSET REPORT NO.	RIN/NOVEMBER-19/W21	DATE OF ISSUE	31.12.19
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	BALLARPUR AREA	YEAR	2019
NAME OF PROJECT	GOURI- I& II (A) OC	MONTH	NOVEMBER

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
28-11-19	7.28	42	36	<2
TLV	5.5 - 9.0	100	250	10

ETP DISCHARGE BGOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
14-11-19	7.42	34	32	<2
29-11-19	7.22	54	44	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

NAME OF AREA: BALLARPUR AREA
NAME OF PROJECT: GOURI- I& II (A) OC

YEAR: 2019
MONTH: NOVEMBER

CHP: BGON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	12-11-19	59.9	58.2
NOV 2019	29-11-19	59.4	58.2
TLV		75	70

GOURI COLONY: BGON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	12-11-19	44.5	43.6
NOV 2019	29-11-19	43.2	42.4
TLV		55	45

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GOURI DEEP OC

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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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A23	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	BALLARPUR AREA	YEAR	2019
NAME OF PROJECT	GOURI DEEP OC	MONTH	NOVEMBER


MANAGER OFFICE: BGDO1					
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
12-11-19	325	246	54	35	11
27-11-19	323	236	56	32	10
TLV	600	300	60	120	120

MUTRA VILLAGE: BGDO2					
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
12-11-19	195	156	50	39	12
27-11-19	263	195	55	43	13
TLV	200	100	60	80	80

GOUEGAON VILLAGE: BGDO3					
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
12-11-19	216	173	55	37	11
27-11-19	203	150	42	33	10
TLV	200	100	60	80	80

ANTARGAON VILLAGE: BGDO4					
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
12-11-19	161	129	41	32	10
27-11-19	175	130	36	29	<10
TLV	200	100	60	80	80


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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W23	DATE OF ISSUE	31.12.19
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	BALLARPUR AREA	YEAR	2019
NAME OF PROJECT	GOURI DEEP OC	MONTH	NOVEMBER

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
26-11-19	7.52	34	28	<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
11-11-19	7.56	46	44	<2
26-11-19	7.46	56	44	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

NAME OF AREA: BALLARPUR AREA YEAR: 2019
NAME OF PROJECT: GOURI DEEP OC MONTH: NOVEMBER

MANAGER OFFICE: BGDN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	12-11-19	50.8	49.7
NOV 2019	29-11-19	50.5	47.9
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

NEW DHOPTALA OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

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

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Fugitive Dust Monitoring locations:

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

Noise Level Monitoring location :


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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A18	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	BALLARPUR AREA	YEAR	2019
NAME OF PROJECT	NEW DHOPTALA OC	MONTH	NOVEMBER


SAM OFFICE- DHOPTALA SUB AREA: BNDOA1					
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
15-11-19	375	293	68	43	13
30-11-19	180	135	38	19	<10
TLV	600	300	60	120	120

MANAGER OFFICE- DHOPTALA OC: BNDOA2					
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
15-11-19	353	276	63	42	13
30-11-19	184	134	38	30	<10
TLV	600	300	60	120	120

SASTI COLONY: BNDOA3					
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
15-11-19	110	88	28	22	<10
30-11-19	128	95	27	21	<10
TLV	200	100	60	80	80

SASTI VILLAGE: BNDOA4					
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
15-11-19	201	161	52	40	12
30-11-19	147	109	31	24	<10
TLV	200	100	60	80	80


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NOISE LEVEL DATA

NAME OF AREA: BALLARPUR AREA YEAR: 2019
NAME OF PROJECT: NEW DHOPTALA OC MONTH: NOVEMBER

CHP: BNDN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	12-11-19	60.7	59.4
NOV 2019	29-11-19	59.4	56.8
TLV		75	70

SASTI COLONY: BNDN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	12-11-19	43.8	42.2
NOV 2019	29-11-19	44.5	43.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

PAUNI O/C II OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



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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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A24	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	BALLARPUR AREA	YEAR	2019
NAME OF PROJECT	PAUNI O/C II OC	MONTH	NOVEMBER


MINE OFFICE: BP2OA1					
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
14-11-19	393	298	59	37	11
29-11-19	253	184	52	41	12
TLV	600	300	60	120	120

SUBSTATION: BP2OA2					
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
14-11-19	290	220	56	50	15
29-11-19	363	265	54	38	11
TLV	600	300	60	120	120

SAKHARI VILLAGE: BP2OA3					
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
14-11-19	206	165	53	41	12
29-11-19	168	124	35	27	<10
TLV	200	100	60	80	80

WORKSHOP: BP2OA4					
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
13-11-19	451	342	63	47	14
28-11-19	230	185	31	25	<10
TLV	600	300	60	120	120


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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W24	DATE OF ISSUE	31.12.19
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	BALLARPUR AREA	YEAR	2019
NAME OF PROJECT	PAUNI O/C II OC	MONTH	NOVEMBER

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
28-11-19	7.32	42	36	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

NAME OF AREA: BALLARPUR AREA YEAR: 2019
NAME OF PROJECT: PAUNI O/C II OC MONTH: NOVEMBER

MANAGER OFFICE: BP2ON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	12-11-19	50.9	48.5
NOV 2019	29-11-19	49.6	48.1
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

PAUNI O/C

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

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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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A22	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	BALLARPUR AREA	YEAR	2019
NAME OF PROJECT	PAUNI O/C	MONTH	NOVEMBER


MANAGER OFFICE- PAUNI O/C: BPOA1					
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
13-11-19	424	321	66	42	13
28-11-19	311	227	53	40	12
TLV	600	300	60	120	120

WORKSHOP- PAUNI O/C: BPOA2					
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
13-11-19	451	342	63	47	14
28-11-19	230	185	31	25	<10
TLV	600	300	60	120	120

PAUNI VILLAGE: BPOA3					
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
13-11-19	178	142	45	36	11
28-11-19	250	185	52	41	12
TLV	200	100	60	80	80

GOURI VILLAGE: BPOA4					
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
13-11-19	180	144	46	36	11
28-11-19	143	106	30	23	<10
TLV	200	100	60	80	80


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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W22	DATE OF ISSUE	31.12.19
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	BALLARPUR AREA	YEAR	2019
NAME OF PROJECT	PAUNI O/C	MONTH	NOVEMBER

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
27-11-19	7.26	46	40	<2
TLV	5.5 - 9.0	100	250	10

ETP DISCHARGE: BPOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
12-11-19	7.52	42	40	<2
27-11-19	7.28	48	44	<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 O/C

YEAR: 2019
MONTH: NOVEMBER

MANAGER OFFICE: BPON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	12-11-19		
NOV 2019	29-11-19	49.8	48.8
TLV		75	70

GOURI COLONY: BPON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	12-11-19	44.5	43.6
NOV 2019	29-11-19	43.2	42.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

PAUNI O/C II OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



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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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A24	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	BALLARPUR AREA	YEAR	2019
NAME OF PROJECT	PAUNI O/C II OC	MONTH	NOVEMBER


MINE OFFICE: BP2OA1					
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
14-11-19	393	298	59	37	11
29-11-19	253	184	52	41	12
TLV	600	300	60	120	120

SUBSTATION: BP2OA2					
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
14-11-19	290	220	56	50	15
29-11-19	363	265	54	38	11
TLV	600	300	60	120	120

SAKHARI VILLAGE: BP2OA3					
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
14-11-19	206	165	53	41	12
29-11-19	168	124	35	27	<10
TLV	200	100	60	80	80

WORKSHOP: BP2OA4					
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
13-11-19	451	342	63	47	14
28-11-19	153	112	31	25	<10
TLV	600	300	60	120	120


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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W24	DATE OF ISSUE	31.12.19
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	BALLARPUR AREA	YEAR	2019
NAME OF PROJECT	PAUNI O/C II OC	MONTH	NOVEMBER

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
28-11-19	7.32	42	36	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

NAME OF AREA: BALLARPUR AREA YEAR: 2019
NAME OF PROJECT: PAUNI O/C II OC MONTH: NOVEMBER

MANAGER OFFICE: BP2ON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	12-11-19	50.9	48.5
NOV 2019	29-11-19	49.6	48.1
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

SASTI OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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4	NOISE LEVEL DATA	9

INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Fugitive Dust Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :


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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A16	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	BALLARPUR AREA	YEAR	2019
NAME OF PROJECT	SASTI OC	MONTH	NOVEMBER


SAM OFFICE-SASTI OC: BSOA1					
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
15-11-19	284	222	57	41	12
30-11-19	416	303	65	38	11
TLV	600	300	60	120	120

AREA STORE: BSOA2					
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
15-11-19	219	171	51	38	12
30-11-19	276	201	56	44	13
TLV	600	300	60	120	120

GOURI COLONY FILTER PLANT: BSOA3					
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
15-11-19	194	155	50	39	12
30-11-19	68	50	14	11	<10
TLV	200	100	60	80	80

SASTI VILLAGE: BSOA4					
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
15-11-19	201	161	52	40	12
30-11-19	147	109	31	24	<10
TLV	200	100	60	80	80


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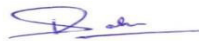
TSET REPORT NO.	RIN/TR/NOVEMBER-19/W16	DATE OF ISSUE	31.12.19
NAME OF CUSTOMER	WCL, NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	BALLARPUR AREA	YEAR	2019
NAME OF PROJECT	SASTI OC	MONTH	NOVEMBER

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
29-11-19	7.32	38	36	<2
TLV	5.5 - 9.0	100	250	10

ETP DISCHARGE: BSOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
14-11-19	7.42	38	36	<2
2-9-11-19	7.36	54	48	<2
TLV	5.5 - 9.0	100	250	10

STP (DOMESTIC EFFLUENT) TREATED BSOW3		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS	BOD
DETECTION LIMIT	10	2
15-11-19	74	12
30-11-19	64	11.2
TLV	100	30


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NOISE LEVEL DATA

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

YEAR: 2019
MONTH: NOVEMBER

CHP: BSON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	12-11-19	59.7	58.2
NOV 2019	29-11-19	60.4	58.7
TLV		75	70

G. COLONY: BSON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	12-11-19	44.5	43.6
NOV 2019	29-11-19	43.2	42.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

SASTI UG

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

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.

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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A17	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	BALLARPUR AREA	YEAR	2019
NAME OF PROJECT	SASTI UG	MONTH	NOVEMBER


SAM OFFICE- DHUPTALA SUB AREA: BSUA1					
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
15-11-19	375	293	68	43	13
30-11-19	180	135	38	19	<10
TLV	600	300	60	120	120

MANAGER OFFICE- DHOPTALA OC: BSUA2					
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
15-11-19	353	276	63	42	13
30-11-19	184	134	38	30	<10
TLV	600	300	60	120	120

SASTI COLONY: BSUA3					
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
15-11-19	110	88	28	22	<10
30-11-19	128	95	27	21	<10
TLV	200	100	60	80	80

SASTI VILLAGE: BSUA4					
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
15-11-19	201	161	52	40	12
30-11-19	147	109	31	24	<10
TLV	200	100	60	80	80


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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W17	DATE OF ISSUE	31.12.19
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	BALLARPUR AREA	YEAR	2019
NAME OF PROJECT	SASTI UG	MONTH	NOVEMBER

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
29-11-19	7.42	42	36	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

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

YEAR: 2019
MONTH: NOVEMBER

FAN HOUSE: BSUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	12-11-19	69.4	68.5
NOV 2019	29-11-19	69.8	67.3
TLV		75	70

SASTI COLONY: BSUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	12-11-19	43.8	42.2
NOV 2019	29-11-19	44.5	43.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

BHATADI OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

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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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A34	DATE OF ISSUE	31.12.19
NAME OF CUSTOMER	WCL, NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WWCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	CHANDRAPUR AREA	YEAR	2019
NAME OF PROJECT	BHATADI OC	MONTH	NOVEMBER

BHATADI SECURITY POST: CBOA1					
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
06-11-19	274	210	54	35	13
29-11-19	293	214	60	29	<10
TLV	600	300	60	120	120

BHATADI MANAGER OFFICE: CBOA2					
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
05-11-19	390	280	59	24	13
19-11-19	301	174	41	16	<10
TLV	600	300	60	120	120

BHATADI VILLAGE: CBOA3					
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
05-11-19	55	40	12	7	<10
19-11-19	48	36	10	8	<10
TLV	200	100	60	80	80

KITADI VILLAGE: CBOA4					
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
07-11-19	44	30	10	8	<10
20-11-19	54	32	19	7	<10
TLV	200	100	60	80	80



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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W34	DATE OF ISSUE	31.12.19
NAME OF CUSTOMER	WCL, NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WWCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	CHANDRAPUR AREA	YEAR	2019
NAME OF PROJECT	BHATADI OC	MONTH	NOVEMBER

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
20-11-19	8.2	18	24	<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
07-11-19	7.3	38	40	<2
20-11-19	8.1	30	32	<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
07-11-19	32	11.4
20-11-19	22	12.6
TLV	100	30


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NOISE LEVEL DATA

NAME OF AREA: CHANDRAPUR AREA YEAR: 2019
NAME OF PROJECT: BHATADI OC MONTH: NOVEMBER

NEAR CHP: CBON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	11-11-19	60.6	56.3
NOV 2019	28-11-19	62.7	62.6
TLV		75	70

COLONY: CBON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	11-11-19	38.5	33.4
NOV 2019	28-11-19	44.2	43.5
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

CRC UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

Environment Laboratory

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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 :	CCR UW1

Noise Level Monitoring location :


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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/NOVEMBER -19/A32	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	CHANDRAPUR AREA	YEAR	2019
NAME OF PROJECT	CRC UG	MONTH	NOVEMBER

MANAGER'S OFFICE MAHAKALI UG: CCRUA1					
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
14-11-19	250	195	59	41	12
22-11-19	121	88	25	19	<10
TLV	600	300	60	120	120

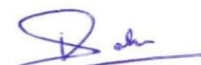
CRC SUBSTATION/ FILTER PLANT: CCRUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/l)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-11-19	367	287	56	46	14
23-11-19	142	104	29	23	<10
TLV	600	300	60	120	120

JATWARA MILK SCHEME: CCRUA3					
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
14-11-19	310	242	53	43	13
22-11-19	168	123	34	27	<10
TLV	600	300	60	120	120

COLONY: CCRUA4					
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
08-11-19	492	384	65	47	14
22-11-19	201	147	41	32	10
TLV	200	100	60	80	80



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TSET REPORT NO.	RIN/TR/NOVEMBER -19/W32	DATE OF ISSUE	31.12.19
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	CHANDRAPUR AREA	YEAR	2019
NAME OF PROJECT	CRC UG	MONTH	NOVEMBER

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
22-11-19	7.8	32	44	<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: 2019
MONTH: NOVEMBER

CHP: CCRUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	63.9	60.3
NOV 2019	28-11-19	63.6	63.2
TLV		75	70

COLONY: CCRUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	39.1	35.2
NOV 2019	28-11-19	43.4	43.2
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

DRC UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

Environment Laboratory

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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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A33	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	CHANDRAPUR AREA	YEAR	2019
NAME OF PROJECT	DRC UG	MONTH	NOVEMBER


PIT OFFICE-DRC- III UG: CDRUA1					
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
15-11-19	243	190	57	40	12
24-11-19	179	158	51	27	<10
TLV	600	300	60	120	120

NEHRU NAGAR/ SUBSTATION: CDRUA2					
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
15-11-19	123	98	31	25	<10
23-11-19	127	94	26	21	<10
TLV	600	300	60	120	120

DRC- V COLONY: CDRUA3					
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
16-11-19	126	87	28	22	<10
23-11-19	100	74	21	16	<10
TLV	200	100	60	80	80

PIT OFFICE DRC-IV: CDRUA4					
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
14-11-19	175	119	44	26	<10
30-11-19	225	143	56	35	18
TLV	200	100	60	80	80


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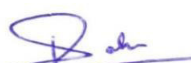
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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W33	DATE OF ISSUE	31.12.19
NAME OF CUSTOMER	WCL, NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	CHANDRAPUR AREA	YEAR	2019
NAME OF PROJECT	DRC UG	MONTH	NOVEMBER

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
23-11-19	7.9	22	28	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

NAME OF AREA: CHANDRAPUR AREA
NAME OF PROJECT: DRC UG

YEAR: 2019
MONTH: NOVEMBER

PIT OFFICE DRC- III UG: CDRUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	62.1	59.5
NOV 2019	28-11-19	71.2	71.7
TLV		75	70

DURGAPUR COLONY: CDRUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	40.9	35.1
NOV 2019	28-11-19	44.2	42.5
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

DURGAPUR OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

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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.

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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A25	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	CHANDRAPUR AREA	YEAR	2019
NAME OF PROJECT	DURGAPUR OC	MONTH	NOVEMBER


MANAGER'S OFFICE- SECTOR V: CDOA1					
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
12-11-19	164	128	38	27	<10
30-11-19	77	59	16	13	<10
TLV	600	300	60	120	120

DURGAPUR VILLAGE: CDOA2					
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
05-11-19	86	59	19	15	<10
19-11-19	102	76	21	17	<10
TLV	200	100	60	80	80

MANAGER OFFICE Q-IV : CDOA3					
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
07-11-19	219	193	48	19	<10
19-11-19	248	188	53	21	9
TLV	600	300	60	120	120

FILTER PLANT DOC/POC COLONY: CDOA4					
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
11-11-19	65	45	14	11	<10
30-11-19	85	48	18	12	<10
TLV	200	100	60	80	80


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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W25	DATE OF ISSUE	31.12.19
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	CHANDRAPUR AREA	YEAR	2019
NAME OF PROJECT	DURGAPUR OC	MONTH	NOVEMBER

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
20-11-19	6.9	32	44	<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
20-11-19	7.4	30	40	<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
10-11-19	7.2	36	40	<2
20-11-19	7.6	22	36	<2
TLV	5.5 - 9.0	100	250	10

STP DISCHARGE: CDOW4		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS (in mg/l)	BOD (in mg/l)
DETECTION LIMIT	10	2
10-11-19	36	12
20-11-19	26	10.2
TLV	100	30



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NOISE LEVEL DATA

NAME OF AREA: CHANDRAPUR AREA YEAR: 2019
NAME OF PROJECT: DURGAPUR OC MONTH: NOVEMBER

CHP: CDON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	63.2	60.1
NOV 2019	28-11-19	63.6	63.4
TLV		75	70

DURGAPUR COLONY: CDON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	40.9	35.1
NOV 2019	28-11-19	44.2	43.5
TLV		50	45

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ENVIRONMENTAL MONITORING REPORT

HLP OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



Nov-19

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Fugitive Dust Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :


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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A28	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	CHANDRAPUR AREA	YEAR	2019
NAME OF PROJECT	HLP OC	MONTH	NOVEMBER

MANAGER OFFICE(NANDGAON UG): CHO1					
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
10-11-19	121	95	28	20	<10
25-11-19	169	123	35	27	<10
TLV	600	300	60	120	120

MANAGER OFFICE(HLP OC): CHO2					
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
09-11-19	209	165	51	40	12
25-11-19	186	136	38	30	<10
TLV	600	300	60	120	120

MANA VILLAGE : CHO3					
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
10-11-19	186	99	38	23	<10
29-11-19	106	78	22	17	<10
TLV	200	100	60	80	80

COLONY (NANDGAON): CHO4					
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
09-11-19	157	108	35	27	<10
25-11-19	143	106	30	23	<10
TLV	200	100	60	80	80



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FUGITIVE DUST MONITORING DATA

WEIGHT BRIDGE: CHOA2			
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/l)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
09-11-19	725	571	98



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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W28	DATE OF ISSUE	31.12.19
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	CHANDRAPUR AREA	YEAR	2019
NAME OF PROJECT	HLP OC	MONTH	NOVEMBER

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
24-11-19	6.2	24	44	<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
08-11-19	7.9	38	48	<2
24-11-19	6.6	20	24	<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: 2019
MONTH: NOVEMBER

CHP: CHON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	61.1	58.4
NOV 2019	28-11-19	64.4	64.2
TLV		75	70

COLONY: CHON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	37.6	33.9
NOV 2019	28-11-19	43.6	43.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

HLP I& III UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

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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.

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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A27	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	CHANDRAPUR AREA	YEAR	2019
NAME OF PROJECT	HLP I& III UG	MONTH	NOVEMBER

SUBSTATION HLC I UG: CHUA1					
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
11-11-19	386	286	51	43	13
30-11-19	279	201	45	23	12
TLV	600	300	60	120	120

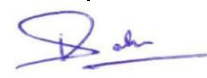
PIT OFFICE - HLC-I INCLINE: CHUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/l)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-11-19	225	176	53	37	11
29-11-19	390	285	61	41	12
TLV	600	300	60	120	120

HLC-III COLONY : CHUA3					
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
09-11-19	228	157	50	39	12
24-11-19	139	103	29	23	<10
TLV	200	100	60	80	80

RAJIV GANDHI ENGG. COLLEGE: CHUA4					
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
15-11-19	80	63	19	13	<10
24-11-19	187	89	36	29	11
TLV	200	100	60	80	80



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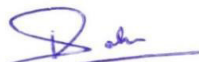
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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W27	DATE OF ISSUE	31.12.19
NAME OF CUSTOMER	WCL, NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	CHANDRAPUR AREA	YEAR	2019
NAME OF PROJECT	HLP I& III UG	MONTH	NOVEMBER

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
24-11-19	7.2	32	48	<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
23-11-19	7.9	18	32	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

NAME OF AREA: CHANDRAPUR AREA YEAR: 2019
NAME OF PROJECT: HLP I& III UG MONTH: NOVEMBER

FAN HOUSE - I UG: CHUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	65.3	62.8
NOV 2019	28-11-19	63.7	62.1
TLV		75	70

COLONY: CHUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	40.5	35.5
NOV 2019	28-11-19	42.7	42.6
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

MAHAKALI UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

Environment Laboratory

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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:

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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A31	DATE OF ISSUE	31.12.19
NAME OF CUSTOMER	WCL, NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-4/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	CHANDRAPUR AREA	YEAR	2019
NAME OF PROJECT	MAHAKALI UG	MONTH	NOVEMBER

MANAGER'S OFFICE MAHAKALI UG: CMUA1					
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
14-11-19	250	195	59	41	12
22-11-19	121	88	25	19	<10
TLV	600	300	60	120	120

CRC SUBSTATION/ FILTER PLANT: CMUA2					
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
12-11-19	367	287	56	46	14
23-11-19	142	104	29	23	<10
TLV	600	300	60	120	120

JATWARA MILK SCHEME: CMUA3					
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
14-11-19	310	242	53	43	13
22-11-19	168	123	34	27	<10
TLV	600	300	60	120	120

COLONY: CMUA4					
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
08-11-19	492	384	65	47	14
22-11-19	201	147	41	32	10
TLV	200	100	60	80	80



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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W31	DATE OF ISSUE	31.12.19
NAME OF CUSTOMER	WCL, NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-4/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	CHANDRAPUR AREA	YEAR	2019
NAME OF PROJECT	MAHAKALI UG	MONTH	NOVEMBER

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
21-11-19	7.4	40	48	<2
TLV	5.5 - 9.0	250	100	10



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NOISE LEVEL DATA

NAME OF AREA: CHANDRAPUR AREA YEAR: 2019
NAME OF PROJECT: MAHAKALI UG MONTH: NOVEMBER

FAN HOUSE: CMUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	68.7	32.6
NOV 2019	28-11-19	70.3	70.2
TLV		75	70

COLONY: CMUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	38.7	32.8
NOV 2019	28-11-19	43.6	43.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

MANA UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

Environment Laboratory

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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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A30	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	CHANDRAPUR AREA	YEAR	2019
NAME OF PROJECT	MANA UG	MONTH	NOVEMBER

MANAGER'S OFFICE: CMUA1					
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
10-11-19	362	283	55	39	12
29-11-19	214	156	44	34	10
TLV	600	300	60	120	120

SUBSTATION MANA INCLINE: CMUA2					
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
10-11-19	332	259	58	44	13
29-11-19	188	137	38	30	<10
TLV	600	300	60	120	120

COLONY (NANDGAON): CMUA3					
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
09-11-19	157	108	35	27	<10
25-11-19	143	106	30	23	<10
TLV	200	100	60	80	80

MANA VILLAGE: CMUA4					
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
10-11-19	139	65	43	21	<10
29-11-19	106	78	22	17	<10
TLV	200	100	60	80	80



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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W30	DATE OF ISSUE	31.12.19
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	CHANDRAPUR AREA	YEAR	2019
NAME OF PROJECT	MANA UG	MONTH	NOVEMBER

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
24-11-19	7.3	26	36	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

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

YEAR: 2019
MONTH: NOVEMBER

FAN HOUSE: CMUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	66.2	60.1
NOV 2019	28-11-19	68.7	68.5
TLV		75	70

COLONY (HLP OC): CMUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	37.6	33.9
NOV 2019	28-11-19	43.6	43.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

NANDGAON UG

CHANDRAPUR AREA

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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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A29	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	CHANDRAPUR AREA	YEAR	2019
NAME OF PROJECT	NANDGAON UG	MONTH	NOVEMBER


MANAGER OFFICE NANDGAON UG: CNUA1					
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
10-11-19	121	95	28	20	<10
25-11-19	169	123	35	27	<10
TLV	600	300	60	120	120

SUBSTATION MANA INCLINE: CNUA2					
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
10-11-19	332	259	58	44	13
29-11-19	188	137	38	30	<10
TLV	600	300	60	120	120

MANA VILLAGE : CNUA3					
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
10-11-19	139	65	43	21	<10
29-11-19	106	78	22	17	<10
TLV	200	100	60	80	80

COLONY (NANDGAON): CNUA4					
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
09-11-19	157	108	35	27	<10
25-11-19	143	106	30	23	<10
TLV	200	100	60	80	80


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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W29	DATE OF ISSUE	31.12.19
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	CHANDRAPUR AREA	YEAR	2019
NAME OF PROJECT	NANDGAON UG	MONTH	NOVEMBER

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
24-11-19	6.2	18	32	<2
TLV	5.5 - 9.0	100	250	10


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
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3	* Test parameter not under NABL scope.

NOISE LEVEL DATA

NAME OF AREA: CHANDRAPUR AREA **YEAR: 2019**
NAME OF PROJECT: NANDGAON UG **MONTH: NOVEMBER**

FAN HOUSE: CNUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	67.7	60.2
NOV 2019	28-11-19	72.7	72.6
TLV		75	70

COLONY HLP OC: CNUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	37.6	33.9
NOV 2019	28-11-19	43.6	43.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

PADMAPUR OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

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-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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A26	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	CHANDRAPUR AREA	YEAR	2019
NAME OF PROJECT	PADMAPUR OC	MONTH	NOVEMBER

MANAGER'S OFFICE-Q-IV: CPOA1					
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
07-11-19	219	193	48	19	<10
19-11-19	248	188	53	21	<10
TLV	600	300	60	120	120

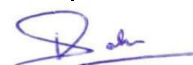
MANAGER OFFICE SECTOR-V: CPOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/l)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-11-19	164	128	38	27	<10
30-11-19	177	159	46	23	<10
TLV	600	300	60	120	120

KITADI VILLAGE : CPOA3					
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
07-11-19	44	30	10	8	<10
20-11-19	54	32	19	7	<10
TLV	200	100	60	80	80

FILTER PLANT DOC/POC COLONY: CPOA4					
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
11-11-19	65	45	14	11	<10
30-11-19	85	48	18	12	<10
TLV	200	100	60	80	80



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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W26	DATE OF ISSUE	31.12.19
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	CHANDRAPUR AREA	YEAR	2019
NAME OF PROJECT	PADMAPUR OC	MONTH	NOVEMBER

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
20-11-19	7.2	28	32	<2
TLV	5.5 - 9.0	100	250	10

ETP DISCHARGE: CPOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
10-11-19	7.1	28	32	<2
20-11-19	7.7	36	44	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

NAME OF AREA: CHANDRAPUR AREA YEAR: 2019
NAME OF PROJECT: PADMAPUR OC MONTH: NOVEMBER

CHP: CPON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	58.7	56.9
NOV 2019	28-11-19	64.5	64.2
TLV		75	70

DURGAPUR COLONY: CPON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	40.9	35.1
NOV 2019	28-11-19	44.2	43.5
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

DHORWASA OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

Environment Laboratory

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INTRODUCTION

Dhorwasa 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	RC OFFICE:	MDOA1
2	TELWASA SECURITY OFFICE:	MDOA2
3	DHORWASA VILLAGE :	MDOA3
4	EKTA NAGAR COLONY:	MDOA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	DETP DISCHARGE:	MDOW1

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER OFFICE:	MDON1
2	EKTA NAGAR COLONY:	MDON2

Frequency of Monitoring:

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

WATER: Water quality is monitored on 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/NOVEMBER-19/A47	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	MAJRI AREA	YEAR	2019
NAME OF PROJECT	DHORWASA OC	MONTH	NOVEMBER

RC OFFICE: MDOA1					
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
06-11-19	34	25	8	6	<10
TLV	600	300	60	120	120

TELWASA SECURITY OFFICE: MDOA2					
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
05-11-19	127	96	29	22	<10
26-11-19	79	61	17	14	<10
TLV	600	300	60	120	120

DHORWASA VILLAGE : MDOA3					
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
06-11-19	59	41	13	10	<10
TLV	200	100	60	80	80

EKTA NAGAR COLONY: MDOA4					
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
04-11-19	121	85	32	18	<10
24-11-19	191	142	40	31	<10
TLV	200	100	60	80	80



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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W47	DATE OF ISSUE	31.12.19
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	2019
NAME OF PROJECT	DHORWASA OC	MONTH	NOVEMBER

DETP DISCHARGE: MDOW1		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS (in mg/l)	BOD (in mg/l)
DETECTION LIMIT	10	2
03-11-19	42	10
23-11-19	40	8
TLV	100	30


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NOISE LEVEL DATA

NAME OF AREA: MAJRI AREA
NAME OF PROJECT: DHORWASA OC

YEAR: 2019
MONTH: NOVEMBER

MANAGER OFFICE: MDON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	04-11-19	44	43.1
NOV 2019	24-11-19	43.2	42.4
TLV		75	70

EKTA NAGAR COLONY: MDON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	04-11-19	43.6	42.3
NOV 2019	24-11-19	44.2	43.5
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

JUNA KUNADA OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

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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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A46	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	MAJRI AREA	YEAR	2019
NAME OF PROJECT	JUNA KUNADA OC	MONTH	NOVEMBER

PIT OFFICE: MJOA1					
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
05-11-19	293	170	35	26	12
25-11-19	435	340	65	35	11
TLV	600	300	60	120	120

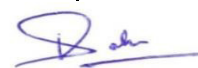
SAM OFFICE CHARGAON: MJOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/l)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-11-19	368	227	58	32	12
25-11-19	506	395	71	47	14
TLV	600	300	60	120	120

EKTA NAGAR COLONY: MJOA3					
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
04-11-19	121	85	32	18	<10
24-11-19	191	142	40	31	<10
TLV	200	100	60	80	80

CHARGAON INTAKE WELL: MJOA4					
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
04-11-19	55	38	12	10	<10
24-11-19	124	94	26	21	<10
TLV	200	100	60	80	80



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FUGITIVE DUST MONITORING DATA

CHARGAON CHP: MJOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{l}$)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
25-11-19	432	311	47



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NOISE LEVEL DATA

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

YEAR: 2019
MONTH: NOVEMBER

MANAGER OFFICE: MJON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	04-11-19	45.3	44.4
NOV 2019	24-11-19	44.4	43.2
TLV		75	70

EKTA NAGAR COLONY: MJON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	04-11-19	43.6	42.3
NOV 2019	24-11-19	44.2	43.5
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

NAVIN KUNADA OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

Environment Laboratory

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INTRODUCTION

Navin 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	SAM OFFICE CHARGAON:	MNOA1
2	EKTA NAGAR COLONY:	MNOA2
3	NEAR DEULWADA VILLAGE:	MNOA3
4	CHARGAON INTAKE WELL:	MNOA4

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHARGAON CHP:	MNON1
2	EKTA NAGAR COLONY:	MNON2

Frequency of Monitoring:

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

WATER: Water quality is monitored on 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/NOVEMBER-19/A45	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	MAJRI AREA	YEAR	2019
NAME OF PROJECT	NAVIN KUNADA OC	MONTH	NOVEMBER

SAM OFFICE CHARGAON: MNOA1					
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
05-11-19	368	227	58	32	12
25-11-19	506	395	71	47	14
TLV	600	300	60	120	120

EKTA NAGAR COLONY: MNOA2					
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
04-11-19	121	85	32	18	<10
24-11-19	191	142	40	31	<10
TLV	200	100	60	80	80

NEAR DEULWADA VILLAGE: MNOA3					
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
04-11-19	74	51	16	13	<10
TLV	200	100	60	80	80

CHARGAON INTAKE WELL: MNOA4					
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
04-11-19	55	38	12	10	<10
24-11-19	124	94	26	21	<10
TLV	200	100	60	80	80



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NOISE LEVEL DATA

NAME OF AREA: MAJRI AREA **YEAR: 2019**
NAME OF PROJECT: NAVIN KUNADA OC **MONTH: NOVEMBER**

CHARGAON CHP: MNON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	04-11-19	51.4	50.3
NOV 2019	24-11-19	50.6	51.4
TLV		75	70

EKTA NAGAR COLONY: MNON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	04-11-19	43.6	42.3
NOV 2019	24-11-19	44.2	43.5
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

NEW MAJRI-II (A)OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A42	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)],PM-2.5 & SPM*		
NAME OF AREA	MAJRI AREA	YEAR	2019
NAME OF PROJECT	NEW MAJRI-II (A)OC	MONTH	NOVEMBER

NMOC SUBSTATION: MMOA1					
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
02-11-19	290	220	56	50	15
22-11-19	336	262	53	38	11
TLV	600	300	60	120	120

PATALA MAGAZINE: MMOA2					
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
02-11-19	189	123	53	33	21
22-11-19	183	126	55	31	21
TLV	600	300	60	120	120

PRIMARY HEALTH CENTRE, MAJRI BASTI: MMOA3					
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
02-11-19	85	72	29	15	<10
22-11-19	79	62	26	14	<10
TLV	200	100	60	80	80

KUCHANA VILLAGE: MMOA4					
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
02-11-19	125	88	34	27	17
03-11-19	104	73	35	19	12
09-11-19	102	76	34	18	13
10-11-19	97	72	33	17	12
15-11-19	71	60	24	23	20
16-11-19	99	74	33	18	15
22-11-19	99	69	34	23	20
23-11-19	71	60	24	23	20
29-11-19	102	73	34	18	12
30-11-19	78	66	26	14	10
TLV	200	100	60	80	80



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FUGITIVE DUST MONITORING DATA

NMOC CHP: MMOF2			
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/l)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
24-11-19	118	85	24



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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W42	DATE OF ISSUE	31.12.19
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	2019
NAME OF PROJECT	NEW MAJRI-II (A)OC	MONTH	NOVEMBER

MINE WATER DISCHARGE: MMOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
29-11-19	7.2	60	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
04-11-19	7.7	52	56	<2
29-11-19	7.4	46	48	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

NAME OF AREA: MAJRI AREA YEAR: 2019
NAME OF PROJECT: NEW MAJRI-II (A)OC MONTH: NOVEMBER

FIELD MAIN.SHED: MMON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	55.2	54.4
NOV 2019	24-11-19	56.2	55.3
TLV		75	70

KUCHNA COLONY: MMON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	44	43.3
NOV 2019	24-11-19	43.9	42.6
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

NEW MAJRI-UG TO OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

Environment Laboratory

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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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A43	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	MAJRI AREA	YEAR	2019
NAME OF PROJECT	NEW MAJRI-UG TO OC	MONTH	NOVEMBER

PATALA MAGAZINE: MMUA1					
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
02-11-19	189	123	53	33	21
22-11-19	183	126	55	31	21
TLV	600	300	60	120	120

MANAGER OFFICE UG TO OC: MMUA2					
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
04-11-19	321	231	48	37	14
24-11-19	490	383	57	44	13
TLV	600	300	60	120	120

NMOC SUBSTATION: MMUA3					
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
02-11-19	290	220	56	50	15
22-11-19	336	262	53	38	11
TLV	600	300	60	120	120

KUCHANA COLONY: MMUA4					
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
02-11-19	125	88	34	27	17
03-11-19	104	73	35	19	12
09-11-19	102	76	34	18	13
10-11-19	97	72	33	17	12
15-11-19	71	60	24	23	20
16-11-19	99	74	33	18	15
22-11-19	99	69	34	23	20
23-11-19	71	60	24	23	20
29-11-19	102	73	34	18	12
30-11-19	78	66	26	14	10
TLV	200	100	60	80	80



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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W43	DATE OF ISSUE	31.12.19
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	2019
NAME OF PROJECT	NEW MAJRI-UG TO OC	MONTH	NOVEMBER

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
29-11-19	8.2	68	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
08-11-19	7.9	38	40	<2
29-11-19	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: 2019
NAME OF PROJECT: NEW MAJRI-UG TO OC MONTH: NOVEMBER

FAN HOUSE - MAJRI: MMUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	04-11-19	45.3	44.2
NOV 2019	24-11-19	44.6	43.4
TLV		75	70

COLONY NAGLON COLONY: MMUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	04-11-19	42.7	41
NOV 2019	24-11-19	43.4	42.5
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

TELWASA OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

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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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A43	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	MAJRI AREA	YEAR	2019
NAME OF PROJECT	TELWASA OC	MONTH	NOVEMBER

TELWASA SECURITY OFFICE: MTOA1					
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
05-11-19	127	96	29	22	<10
26-11-19	79	61	17	14	<10
TLV	600	300	60	120	120

SAM OFFICE: MTOA2					
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
05-11-19	323	148	55	31	11
26-11-19	458	358	80	39	12
TLV	600	300	60	120	120

CHARGAON VILLAGE: MTOA3					
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
06-11-19	154	87	38	28	11
26-11-19	246	182	51	40	12
TLV	200	100	60	80	80

EKTA NAGAR COLONY: MTOA4					
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
04-11-19	121	85	32	18	<10
24-11-19	191	142	40	31	<10
TLV	200	100	60	80	80



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FUGITIVE DUST MONITORING DATA

GROUND STOCK YARD: MTOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/l)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
25-11-19	356	256	52

WEIGHT BRIDGE: MTOF2			
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/l)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
26-11-19	336	242	54



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NOISE LEVEL DATA

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

YEAR: 2019
MONTH: NOVEMBER

NEAR PIT OFFICE: MTON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	04-11-19	53	52.7
NOV 2019	24-11-19	54	53.6
TLV		75	70

EKTA NAGAR COLONY: MTON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	04-11-19	43.6	42.3
NOV 2019	24-11-19	44.2	43.5
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

YEKONA I & II OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

Environment Laboratory

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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	PIT OFFICE:	MYOA1
2	PENZUNI VILLAGE :	MYOA2
3	ASHIT VILLAGE:	MYOA3
4	SANSKAR BHARTI:	MYOA4

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/NOVEMBER-19/A48	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	MAJRI AREA	YEAR	2019
NAME OF PROJECT	YEKONA I & II OC	MONTH	NOVEMBER

PIT OFFICE: MYOA1					
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
07-11-19	116	88	26	20	<10
27-11-19	351	274	57	41	12
TLV	600	300	60	120	120

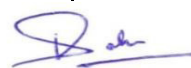
PENZUNI VILLAGE : MYOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/l)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-11-19	39	27	8	7	<10
27-11-19	113	61	35	20	11
TLV	200	100	60	80	80

ASHIT VILLAGE: MYOA3					
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
07-11-19	46	32	10	8	<10
27-11-19	112	85	24	19	<10
TLV	200	100	60	80	80

SANSKAR BHARTI: MYOA4					
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
07-11-19	39	27	8	7	<10
27-11-19	88	67	19	15	<10
TLV	200	100	60	80	80



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FUGITIVE DUST MONITORING DATA

GROUND STOCK YARD: MTOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/l)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
07-11-19	216	170	44



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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W48	DATE OF ISSUE	31.12.19
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	2019
NAME OF PROJECT	YEKONA I& II OC	MONTH	NOVEMBER

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
26-11-19	7.7	42	44	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

NAME OF AREA: MAJRI AREA
NAME OF PROJECT: YEKONA I& II OC

YEAR: 2019
MONTH: NOVEMBER

PIT OFFICE: MYON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	04-11-19	56	55.4
NOV 2019	24-11-19	55.7	54.3
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

ADASA UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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.

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.

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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A5	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	NAGPUR AREA	YEAR	2019
NAME OF PROJECT	ADASA UG	MONTH	NOVEMBER

PROJECT MANAGER OFFICE: NAUA1					
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
06-11-19	413	285	56	60	18
21-11-19	210	130	42	26	13
TLV	600	300	60	120	120

AT PATHAKHEDI GP OFFICE : NAUA2					
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
06-11-19	120	89	27	22	<10
21-11-19	171	127	36	28	<10
TLV	200	100	60	80	80

COLONY WATER FILTER PLANT : NAUA3					
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
07-11-19	120	89	27	22	<10
22-11-19	153	113	32	25	<10
TLV	200	100	60	80	80

KOTODI VILLAGE : NAUA4					
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
07-11-19	243	180	54	35	11
21-11-19	93	69	19	15	<10
TLV	200	100	60	80	80

J. Shrivastava

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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W5	DATE OF ISSUE	31.12.19
NAME OF CUSTOMER	WCL, NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	NAGPUR AREA	YEAR	2019
NAME OF PROJECT	ADASA UG	MONTH	NOVEMBER

MINE WATER DISCHARGE: NAUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	Ph	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
20-11-19	7.8	18	28	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

NAME OF AREA: NAGPUR AREA
YEAR: 2019

NAME OF PROJECT: ADASA UG
MONTH: NOVEMBER

FAN HOUSE: NAUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	07-11-19	68.9	67.5
NOV 2019	20-11-19	69.8	67.5
TLV		75	70

MANAGER OFFICE: NAUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	07-11-19	51.2	49.7
NOV 2019	20-11-19	50.7	48.5
TLV		75	70

COLONY (SAONER): NAUN3			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	07-11-19	43.8	42.3
NOV 2019	20-11-19	43.6	41.9
TLV		55	50

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ENVIRONMENTAL MONITORING REPORT

BHANEGAON OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

Environment Laboratory

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CMPDI

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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.

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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A9	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	NAGPUR AREA	YEAR	2019
NAME OF PROJECT	BHANEGAON OC	MONTH	NOVEMBER

NEAR MANGER OFFICE: NBOA1					
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
09-11-19	302	208	42	34	10
22-11-19	308	233	58	31	9
TLV	600	300	60	120	120

BINA SANGAM TEMPLE: NBOA2					
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
09-11-19	236	175	53	41	12
22-11-19	251	186	52	41	12
TLV	200	100	60	80	80

BINA VILLAGE: NBOA3					
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
10-11-19	246	182	55	35	11
22-11-19	203	150	42	33	10
TLV	200	100	60	80	80

DORLI VILLAGE : NBOA4					
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
09-11-19	266	197	59	39	12
23-11-19	201	149	42	33	10
TLV	200	100	60	80	80

J. Shrivastava

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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W9	DATE OF ISSUE	31.12.19
NAME OF CUSTOMER	WCL, NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	NAGPUR AREA	YEAR	2019
NAME OF PROJECT	BHANEGAON OC	MONTH	NOVEMBER

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
21-11-19	7.9	14	24	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

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

YEAR: 2019
MONTH: NOVEMBER

CONTRACTOR CAMP: NBON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	50.4	48.8
NOV 2019	23-11-19	50.4	49.2
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

GONDEGAON OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

Environment Laboratory

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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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A6	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	NAGPUR AREA	YEAR	2019
NAME OF PROJECT	GONDEGAON OC	MONTH	NOVEMBER

NEAR SUBSTATION: NGOA1					
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
06-11-19	206	142	43	30	<10
25-11-19	104	79	22	17	<10
TLV	600	300	60	120	120

GONDEGAON VILLAGE SCHOOL: NGOA2					
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
10-11-19	153	113	34	28	<10
23-11-19	181	134	38	29	<10
TLV	200	100	60	80	80

COLONY/GUEST HOUSE: NGOA3					
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
10-11-19	257	190	57	38	11
24-11-19	167	123	35	27	<10
TLV	200	100	60	80	80

GHATRONHA VILLAGE: NGOA4					
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
10-11-19	197	146	44	37	11
24-11-19	169	125	35	28	<10
TLV	200	100	60	80	80

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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W6	DATE OF ISSUE	31.12.19
NAME OF CUSTOMER	WCL, NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	NAGPUR AREA	YEAR	2019
NAME OF PROJECT	GONDEGAON OC	MONTH	NOVEMBER

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
23-11-19	7.7	20	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
05-11-19	7.4	22	32	<2
23-11-19	7.5	24	32	<2
TLV	5.5 - 9.0	100	250	10

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NOISE LEVEL DATA

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

YEAR: 2019
MONTH: NOVEMBER

CHP: NGON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	59.8	58.3
NOV 2019	23-11-19	60.3	57.9
TLV		75	70

COLONY: NGON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	40.5	39.3
NOV 2019	23-11-19	42.6	41.8
TLV		55	45

GHATROHNA VILLAGE NGON3			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	41.2	40.4
NOV 2019	23-11-19	40.5	39.2
TLV		55	45

JUNI KAMPTEE VILLAGE: NGON4			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	42.3	41.7
NOV 2019	23-11-19	41.6	40.3
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

INDRE UG TO OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

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NOVEMBER 2019

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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.

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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A8	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	NAGPUR AREA	YEAR	2019
NAME OF PROJECT	INDRE UG TO OC	MONTH	NOVEMBER

NEAR PIT NO.6 / MANAGER OFFICE: NIOA1					
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
05-11-19	355	245	54	33	10
24-11-19	127	96	27	21	<10
TLV	600	300	60	120	120

CMPDI TEKADI STORE: NIOA2					
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
05-11-19	410	283	55	37	11
25-11-19	341	258	62	37	11
TLV	600	300	60	120	120

COLONY WATER TREATMENT PLANT: NIOA3					
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
07-11-19	120	89	27	22	<10
22-11-19	153	113	32	25	<10
TLV	200	100	60	80	80

G.P. OFFICE KANDRI VILLAGE: NIOA4					
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
06-11-19	227	168	50	36	11
25-11-19	210	156	44	34	10
TLV	200	100	60	80	80

J. Shrivastava

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Deepanshu Sahu

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FUGITIVE DUST MONITORING DATA

NEAR COAL STOCK- YARD: NIOF2			
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/l)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
05-11-19	454	357	93



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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W8	DATE OF ISSUE	31.12.19
NAME OF CUSTOMER	WCL, NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	NAGPUR AREA	YEAR	2019
NAME OF PROJECT	INDRE UG TO OC	MONTH	NOVEMBER

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
24-11-19	8.5	18	28	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

NAME OF AREA: NAGPUR AREA **YEAR: 2019**
NAME OF PROJECT: INDRE UG TO OC **MONTH: NOVEMBER**

R.C. OFFICE: NION1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	50.7	49.7
NOV 2019	23-11-19	49.8	48.4
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

KAMPTEE DEEP OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

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

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.

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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A7	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	NAGPUR AREA	YEAR	2019
NAME OF PROJECT	KAMPTEE DEEP OC	MONTH	NOVEMBER

SUBSTATION KAMPTEE : NKCA1					
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
05-11-19	410	283	55	39	12
24-11-19	339	257	54	27	<10
TLV	600	300	60	120	120

JUNI KAMPTEE VILLAGE: NKCA2					
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
06-11-19	244	181	54	37	11
23-11-19	211	156	44	34	10
TLV	200	100	60	80	80

COLONY WATER TREATMENT PALNT: NKCA3					
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
06-11-19	145	108	32	27	<10
25-11-19	177	131	37	29	<10
TLV	200	100	60	80	80

G.P. OFFICE KANDRI VILLAGE: NKCA4					
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
06-11-19	227	168	50	36	11
25-11-19	210	156	44	34	10
TLV	200	100	60	80	80

J. Shany

SCIENTIFIC ASSISTANT

Deepanshu Sahu

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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W7	DATE OF ISSUE	31.12.19
NAME OF CUSTOMER	WCL, NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	NAGPUR AREA	YEAR	2019
NAME OF PROJECT	KAMPTEE DEEP OC	MONTH	NOVEMBER

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
24-11-19	8.2	14	24	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

NAME OF AREA: NAGPUR AREA **YEAR: 2019**
NAME OF PROJECT: KAMPTEE DEEP OC **MONTH: NOVEMBER**

CHP: NKC1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	61.4	60.1
NOV 2019	23-11-19	60.3	57.9
TLV		75	70

COLONY: NKC2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	45.1	44.2
NOV 2019	23-11-19	43.8	41.6
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

PATANSAONGI UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019



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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
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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A3	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	NAGPUR AREA	YEAR	2019
NAME OF PROJECT	PATANSAONGI UG	MONTH	NOVEMBER

COLLIERY MANGER OFFICE: NPTUA1					
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
05-11-19	129	89	27	19	<10
21-11-19	107	81	23	18	<10
TLV	600	300	60	120	120

SADBHAVAN NAGAR (FILTER PLANT): NPTUA2					
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
06-11-19	95	71	21	18	<10
20-11-19	165	122	34	27	<10
TLV	200	100	60	80	80

NEAR LCH QR.: NPTUA3					
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
05-11-19	119	88	26	22	<10
20-11-19	139	103	29	23	<10
TLV	200	100	60	80	80

SAWARMENDHA VILLAGE NPTUA4					
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
06-11-19	115	85	26	21	<10
20-11-19	170	126	35	28	<10
TLV	200	100	60	80	80

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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W3	DATE OF ISSUE	31.12.19
NAME OF CUSTOMER	WCL, NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	NAGPUR AREA	YEAR	2019
NAME OF PROJECT	PATANSAONGI UG	MONTH	NOVEMBER

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
19-11-19	7.9	14	24	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

NAME OF AREA: NAGPUR AREA **YEAR: 2019**
NAME OF PROJECT: PATANSAONGI UG **MONTH: NOVEMBER**

FAN HOUSE: NPTUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	07-11-19	60.2	59.4
NOV 2019	20-11-19	60.4	58.7
TLV		75	70

COLONY: NPTUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	07-11-19	44.3	43.1
NOV 2019	20-11-19	44.1	43.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

PIPLA UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

Environment Laboratory

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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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A2	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	NAGPUR AREA	YEAR	2019
NAME OF PROJECT	PIPLA UG	MONTH	NOVEMBER

NEAR MAGZINE / MANAGER OFFICE: NPUA1					
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
05-11-19	177	122	35	26	<10
20-11-19	347	263	54	38	11
TLV	600	300	60	120	120

IN ZONE- 4: NPUA2					
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
07-11-19	110	76	23	16	<10
20-11-19	190	144	40	32	10
TLV	600	300	60	120	120

FILTER PLANT: NPUA3					
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
08-11-19	207	153	46	38	11
20-11-19	274	203	57	45	13
TLV	200	100	60	80	80

SHIV MANDIR: NPUA4					
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
05-11-19	279	207	58	42	13
20-11-19	201	149	42	33	10
TLV	200	100	60	80	80

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NOISE LEVEL DATA

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

YEAR: 2019
MONTH: NOVEMBER

FAN HOUSE: NPUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	07-11-19	50.40	49.3
NOV 2019	20-11-19	50.1	49.3
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

SAONER UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019



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CMPDI

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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 quality monitoring data	Air	 TC-7102
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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A4	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	NAGPUR AREA	YEAR	2019
NAME OF PROJECT	SAONER UG	MONTH	NOVEMBER

C.M. OFFICE - SAONER - I UG : NSNUA1					
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
07-11-19	206	142	43	30	<10
22-11-19	322	244	58	24	<10
TLV	600	300	60	120	120

C.M. OFFICE- SAONER- II UG : NSNUA2					
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
07-11-19	184	127	38	27	<10
22-11-19	115	87	24	19	<10
TLV	600	300	60	120	120

COLONY WATER FILTER PLANT: NSNUA3					
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
07-11-19	120	89	27	22	<10
22-11-19	153	113	32	25	<10
TLV	200	100	60	80	80

KOTODI VILLAGE : NSNUA4					
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
07-11-19	243	180	54	35	11
21-11-19	93	69	19	15	<10
TLV	200	100	60	80	80

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Deepanshu Sahu
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FUGITIVE DUST MONITORING DATA

CHP: NSNUF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/l)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
22-11-19	116	84	23



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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W4	DATE OF ISSUE	31.12.19
NAME OF CUSTOMER	WCL, NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	NAGPUR AREA	YEAR	2019
NAME OF PROJECT	SAONER UG	MONTH	NOVEMBER

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
21-11-19	7.7	18	32	<2
TLV	5.5 - 9.0	100	250	10

MINE WATER DISCHARGE II UG: NSNUW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
21-11-19	8.2	16	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
21-11-19	8.4	14	24	<2
TLV	5.5 - 9.0	100	250	10

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NOISE LEVEL DATA

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

YEAR: 2019
MONTH: NOVEMBER

FAN HOUSE I UG: NSNUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	07-11-19	68.7	67.2
NOV 2019	20-11-19	68.4	67.9
TLV		75	70

FAN HOUSE II UG: NSNUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	07-11-19	69.8	68.4
NOV 2019	20-11-19	69.7	68.5
TLV		75	70

FAN HOUSE III UG: NSNUN3			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	07-11-19	67.9	66.2
NOV 2019	20-11-19	68.9	67.6
TLV		75	70

COLONY: NSNUN4			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	07-11-19	43.8	42.3
NOV 2019	20-11-19	43.6	41.9
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

SILEWARA UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

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

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :


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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A1	DATE OF ISSUE	31.12.19
NAME OF CUSTOMER	WCL, NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	NAGPUR AREA	YEAR	2019
NAME OF PROJECT	SILEWARA UG	MONTH	NOVEMBER

WATER FILTER FLANT: NSUA1					
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
07-11-19	211	156	47	39	12
20-11-19	313	232	58	51	15
TLV	600	300	60	120	120

V.T.C. SILEWARA: NSUA2					
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
07-11-19	187	129	37	27	<10
23-11-19	378	286	65	33	10
TLV	600	300	60	120	120

MANDIR NEAR KANHAN RIVER: NSUA3					
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
07-11-19	265	183	53	38	12
21-11-19	215	163	46	36	11
TLV	200	100	60	80	80

CHANKAPUR PUMP HOUSE/ COLONY: NSUA4					
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
08-11-19	250	185	56	46	14
21-11-19	252	187	52	41	12
TLV	200	100	60	80	80

J. Shrivastava

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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W1	DATE OF ISSUE	31.12.19
NAME OF CUSTOMER	WCL, NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	NAGPUR AREA	YEAR	2019
NAME OF PROJECT	SILEWARA UG	MONTH	NOVEMBER

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
19-11-19	8.1	16	28	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

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

YEAR: 2019
MONTH: NOVEMBER

FAN HOUSE: NSUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	07-11-19	69.8	67.3
NOV 2019	20-11-19	69.7	68.4
TLV		75	70

COLONY: NSUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	07-11-19	43.1	42.4
NOV 2019	20-11-19	43.8	42.1
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

SINGORI OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

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

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INTRODUCTION

Singori OC mine is situated in Nagpur District of Maharashtra State and is administered by the Nagpur area of the Western Coalfields Limited. The drainage is principally controlled by Kolar river. The area has tropical climate. The above-mentioned industries are also expected to contribute in increasing the pollution load of the area. The air pollution due to working of the UG mine is insignificant

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CONTRACTOR CAMP:	NSOA1
2	SOHOLI VILLAGE :	NSOA2
3	HINGNA VILLAGE:	NSOA3
4	DORLI VILLAGE:	NSOA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NEAR COAL STOCK YARD:	NSOF1
2	WEIGHT BRIDGE:	NSOF2

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	NSOW1

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CONTRACTOR CAMP:	NSON1
2	SOHOLI VILLAGE :	NSON2

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A10	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	NAGPUR AREA	YEAR	2019
NAME OF PROJECT	SINGORI OC	MONTH	NOVEMBER

CONTRACTOR CAMP: NSOA1					
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
09-11-19	353	243	53	41	12
21-11-19	354	268	55	39	12
TLV	600	300	60	120	120

SOHOLI VILLAGE : NSOA2					
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
08-11-19	96	71	21	18	<10
21-11-19	150	111	31	24	<10
TLV	200	100	60	80	80

HINGNA VILLAGE: NSOA3					
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
08-11-19	244	181	54	35	11
22-11-19	178	132	37	29	<10
TLV	200	100	60	80	80

DORLI VILLAGE: NSOA4					
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
09-11-19	266	197	59	39	12
23-11-19	201	149	42	33	10
TLV	200	100	60	80	80

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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W10	DATE OF ISSUE	31.12.19
NAME OF CUSTOMER	WCL, NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	NAGPUR AREA	YEAR	2019
NAME OF PROJECT	SINGORI OC	MONTH	NOVEMBER

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
20-11-19	7.2	18	32	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

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

YEAR: 2019
MONTH: NOVEMBER

CONTRACTOR CAMP: NSON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	49.8	48.6
NOV 2019	23-11-19	49.7	48.6
TLV		75	70

SOHOLI VILLAGE : NSON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	43.2	42.1
NOV 2019	23-11-19	40.6	39.4
TLV		55	45

DRILLING SITE			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	52.4	51.2
NOV 2019	20-11-19	54.6	53.2
TLV		55	45

DOSING SITE			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	52.3	51.1
NOV 2019	20-11-19	52.8	57.3
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

DINESH OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

Environment Laboratory

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CMPDI

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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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TSET REPORT NO.	RIN/TR/NOVEMBER -19/A14	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	UMRER AREA	YEAR	2019
NAME OF PROJECT	DINESH OC	MONTH	NOVEMBER

MANAGER OFFICE: UM30A1					
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
05-11-19	271	187	56	39	12
21-11-19	276	209	59	26	8
TLV	600	300	60	120	120

NEAR RLY. WEIGHT BRIDGE: UM30A2					
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
06-11-19	590	298	59	48	14
21-11-19	454	268	55	49	15
TLV	600	300	60	120	120

KANWA VILLAGE : UM30A3					
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
08-11-19	158	83	44	11	<10
24-11-19	188	93	43	34	10
TLV	200	100	60	80	80

SIRPUR VILLAGE: UM30A4					
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
15-11-19	139	78	29	7	<10
23-11-19	154	84	32	10	<10
TLV	200	100	60	80	80

R. Annapurna

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W14	DATE OF ISSUE	31.12.19
NAME OF CUSTOMER	WCL, NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14.1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	UMRER AREA	YEAR	2019
NAME OF PROJECT	DINESH OC	MONTH	NOVEMBER

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
24-11-19	7.1	20	32	<2
TLV	5.5 - 9.0	100	250	10

ETP (WORKSHOP): UM3OW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
12-11-19	6.9	26	36	<2
20-11-19	6.6	18	28	<2
TLV	5.5 - 9.0	100	250	10

R. Annapurna

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Deepanshu Sahu

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NOISE LEVEL DATA

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

YEAR: 2019
MONTH: NOVEMBER

NEAR PIT OFFICE: UM30N1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	11-11-19	55.3	54.7
NOV 2019	28-11-19	54.6	53.7
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

GOKUL OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019



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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.

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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A14	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	UMRER AREA	YEAR	2019
NAME OF PROJECT	GOKUL OC	MONTH	NOVEMBER

CONTRACTOR CAMP: UGOA1					
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
12-11-19	47	32	10	7	<10
20-11-19	376	285	58	33	10
TLV	600	300	60	120	120

BESUR VILLAGE : UGOA2					
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
03-11-19	116	83	27	21	<10
05-11-19	118	84	27	21	<10
11-11-19	42	30	10	7	<10
12-11-19	56	40	13	10	<10
20-11-19	126	93	26	20	<10
21-11-19	130	96	27	21	<10
26-11-19	117	87	24	19	<10
27-11-19	115	85	24	19	<10
TLV	200	100	60	80	80

NAND VILLAGE: UGOA3					
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
03-11-19	70	50	16	12	<10
05-11-19	132	94	30	24	<10
11-11-19	57	41	13	10	<10
12-11-19	43	31	10	8	<10
20-11-19	167	124	35	27	<10
05-11-19	213	158	44	35	10
11-11-19	188	139	39	31	<10
12-11-19	32	24	7	5	<10
TLV	200	100	60	80	80

POLGAON VILLAGE : UGOA4					
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
03-11-19	133	95	30	24	<10
05-11-19	112	80	26	20	<10
11-11-19	115	82	26	21	<10
12-11-19	106	76	24	19	<10
20-11-19	107	79	22	17	<10
21-11-19	128	95	27	21	<10
26-11-19	113	84	24	18	<10
27-11-19	104	77	22	17	<10
TLV	200	100	60	80	80

R. Annapurna

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DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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NAME OF CUSTOMER	WCL, NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	UMRER AREA	YEAR	2019
NAME OF PROJECT	GOKUL OC	MONTH	NOVEMBER

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
20-11-19	6.9	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
11-11-19	7.2	22	32	<2
19-11-19	7.2	42	56	<2
TLV	5.5 - 9.0	100	250	10

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NOISE LEVEL DATA

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

YEAR: 2019
MONTH: NOVEMBER

CONTRACTOR CAMP: UGON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	11-11-19	56.6	55.8
NOV 2019	28-11-19	53.4	52.6
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

MAKARDHOKRA- II OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

Environment Laboratory

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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.

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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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	UMRER AREA	YEAR	2019
NAME OF PROJECT	MAKARDHOKRA- II OC	MONTH	NOVEMBER

NEAR MANAGER OFFICE: UMOA1					
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
10-11-19	58	40	12	8	<10
25-11-19	33	25	7	6	<10
TLV	600	300	60	120	120

SAM OFFICE: UMOA2					
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
07-11-19	110	76	23	16	<10
25-11-19	45	34	10	8	<10
TLV	600	300	60	120	120

KANWA VILLAGE : UMOA3					
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
08-11-19	158	83	44	11	<10
24-11-19	188	93	43	34	10
TLV	200	100	60	80	80

NEAR PUMP HOUSE COLONY: UMOA4					
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
08-11-19	137	98	31	25	<10
24-11-19	81	60	17	13	<10
TLV	200	100	60	80	80

R. Annapurna

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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W12	DATE OF ISSUE	31.12.19
NAME OF CUSTOMER	WCL, NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	UMRER AREA	YEAR	2019
NAME OF PROJECT	MAKARDHOKRA- II OC	MONTH	NOVEMBER

MINE WATER DISCHARGE: UMOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
-	-	-	-	-
TLV	5.5 - 9.0	100	250	10

ETP DISCHARGE: UMOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
12-11-19	7.1	24	36	<2
21-11-19	6.4	20	32	<2
TLV	5.5 - 9.0	100	250	10

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NOISE LEVEL DATA

NAME OF AREA: UMRER AREA YEAR: 2019
NAME OF PROJECT: MAKARDHOKRA- II OC MONTH: NOVEMBER

NEAR PIT OFFICE: UMON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	55.4	54.7
NOV 2019	28-11-19	56.3	55.7
TLV		75	70

COLONY (UMRER OC): UMON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	42.6	41.5
NOV 2019	28-11-19	42.6	41.2
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

MAKARDHOKHRA- I OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

Environment Laboratory

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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.

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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A13	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	UMRER AREA	YEAR	2019
NAME OF PROJECT	MAKARDHOKHRA- I OC	MONTH	NOVEMBER

PIT OFFICE: UM10A1					
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
08-11-19	138	95	29	20	<10
24-11-19	46	35	10	8	<10
TLV	600	300	60	120	120

NEAR PUMP HOUSE COLONY: UM10A2					
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
08-11-19	137	98	31	25	<10
24-11-19	81	60	17	13	<10
TLV	200	100	60	80	80

KANWA VILLAGE : UM10A3					
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
08-11-19	158	83	44	11	<10
24-11-19	188	93	43	34	10
TLV	200	100	60	80	80

SIRPUR VILLAGE : UM10A4					
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
15-11-19	139	78	29	7	<10
23-11-19	154	84	32	10	<10
TLV	200	100	60	80	80

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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W13	DATE OF ISSUE	31.12.19
NAME OF CUSTOMER	WCL, NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	UMRER AREA	YEAR	2019
NAME OF PROJECT	MAKARDHOKHRA- I OC	MONTH	NOVEMBER

MINE WATER DISCHARGE: UM10W1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
23-11-19	6.9	22	32	<2
TLV	5.5 - 9.0	100	250	10

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NOISE LEVEL DATA

NAME OF AREA: UMRER AREA YEAR: 2019
NAME OF PROJECT: MAKARDHOKHRA- I OC MONTH: NOVEMBER

NEAR PIT OFFICE: UM10N1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	56.2	55.6
NOV 2019	28-11-19	55.2	54.6
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

MURPAR UG

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

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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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A15	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	UMRER AREA	YEAR	2019
NAME OF PROJECT	MURPAR UG	MONTH	NOVEMBER

NEAR PIT OFFICE: UMUA1					
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
04-11-19	116	83	27	21	<10
30-11-19	54	40	11	9	<10
TLV	600	300	60	120	120

NEAR MAGAZINE BUILDING: UMUA2					
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
04-11-19	119	85	27	21	<10
30-11-19	167	124	35	27	<10
TLV	600	300	60	120	120

COLONY : UMUA3					
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
04-11-19	210	145	46	36	11
30-11-19	196	145	41	32	10
TLV	200	100	60	80	80

MORPAR VILLAGE : UMUA4					
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
04-11-19	202	139	44	35	10
30-11-19	189	140	39	31	<10
TLV	200	100	60	80	80

R. Annapurna

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Deepanshu Sahu

DEEPANSHU SAHU
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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W15	DATE OF ISSUE	31.12.19
NAME OF CUSTOMER	WCL, NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	UMRER AREA	YEAR	2019
NAME OF PROJECT	MURPAR UG	MONTH	NOVEMBER

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
30-11-19	6.9	26	36	<2
TLV	5.5 - 9.0	100	250	10

R. Annapurna

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NOISE LEVEL DATA

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

YEAR: 2019
MONTH: NOVEMBER

FAN HOUSE: UMUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	11-11-19	69.2	68.6
NOV 2019	28-11-19	69.2	68.6
TLV		75	70

COLONY: UMUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	11-11-19	41.2	40.4
NOV 2019	28-11-19	41.6	40.7
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

UMRER OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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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.

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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A11	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	UMRER AREA	YEAR	2019
NAME OF PROJECT	UMRER OC	MONTH	NOVEMBER

UMRER MANAGER OFFICE: UUA01					
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
09-11-19	57	39	12	8	<10
24-11-19	83	63	18	14	<10
TLV	600	300	60	120	120

NEAR WORKSHOP: UUA02					
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
10-11-19	55	38	11	8	<10
24-11-19	75	57	16	13	<10
TLV	600	300	60	120	120

KANWA VILLAGE : UUA03					
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
08-11-19	58	43	14	11	<10
24-11-19	206	153	43	34	10
TLV	200	100	60	80	80

NEAR PUMP HOUSE COLONY: UUA04					
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
08-11-19	137	98	31	25	<10
24-11-19	81	60	17	13	<10
TLV	200	100	60	80	80

R. Annapurna

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FUGITIVE DUST MONITORING DATA

CHP: UUOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/l)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
10-11-19	452	356	93

RLY. SIDING: UUOF3			
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/l)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
10-11-19	368	290	75

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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W11	DATE OF ISSUE	31.12.19
NAME OF CUSTOMER	WCL, NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	UMRER AREA	YEAR	2019
NAME OF PROJECT	UMRER OC	MONTH	NOVEMBER

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
23-11-19	7.1	36	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
12-11-19	7.1	22	32	<2
23-11-19	6.5	32	44	<2
TLV	5.5 - 9.0	100	250	10

STP DISCHARGE : UUOW3		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS (in mg/l)	BOD (in mg/l)
DETECTION LIMIT	10	2
14-11-19	40	10.8
19-11-19	56	11.4
TLV	100	30

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NOISE LEVEL DATA

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

YEAR: 2019
MONTH: NOVEMBER

CHP: UJON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	65.2	64.4
NOV 2019	28-11-19	67.2	66.4
TLV		75	70

COLONY: UJON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	42.6	41.5
NOV 2019	28-11-19	42.6	41.2
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

GHUGUS OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

Environment Laboratory

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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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A38	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	WANI AREA	YEAR	2019
NAME OF PROJECT	GHUGUS OC	MONTH	NOVEMBER

ACC PATCH NEAR ACC COLONY: WGOA1					
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
10-11-19	262	198	59	45	13
25-11-19	63	46	13	10	<10
TLV	600	300	60	120	120

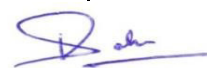
SAM OFFICE: WGOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/l)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-11-19	256	175	52	37	14
24-11-19	145	106	30	23	<10
TLV	600	300	60	120	120

RAM NAGAR COLONY : WGOA3					
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
09-11-19	113	91	28	23	<10
25-11-19	175	130	36	28	<10
TLV	200	100	60	80	80

GHUGUS VILLAGE (GP OFFICE): WGOA4					
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
10-11-19	297	205	54	38	11
25-11-19	238	176	49	29	9
TLV	200	100	60	80	80



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FUGITIVE DUST MONITORING DATA

CHP: WGOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/l)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
10-11-19	324	255	66



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NOISE LEVEL DATA

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

YEAR: 2019
MONTH: NOVEMBER

CHP: WGON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	60.5	56.5
NOV 2019	24-11-19	64.9	63.8
TLV		75	70

COLONY: WGON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	46.1	44.9
NOV 2019	24-11-19	45.5	44.9
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

KOLGAON OC

WANI AREA

WESTERN COALFIELDS LTD.

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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 heavy road traffic are also expected to contribute in increasing the pollution.

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :


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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A39	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	WANI AREA	YEAR	2019
NAME OF PROJECT	KOLGAON OC	MONTH	NOVEMBER

MANAGER OFFICE: WKOA1					
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
12-11-19	459	348	69	48	14
30-11-19	176	128	36	28	<10
TLV	600	300	60	120	120

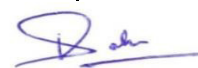
SAM OFFICE: WKOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/l)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-11-19	256	175	52	37	14
24-11-19	145	106	30	23	<10
TLV	600	300	60	120	120

KOLGAON VILLAGE : WKOA3					
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
12-11-19	83	57	18	14	<10
30-11-19	50	37	10	8	<10
TLV	200	100	60	80	80

KAILSHNAGAR TOWNSHIP - FILTER PLANT: WKOA4					
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
13-11-19	40	32	10	8	<10
30-11-19	62	46	13	10	<10
TLV	200	100	60	80	80



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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W39	DATE OF ISSUE	31.12.19
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	WANI AREA	YEAR	2019
NAME OF PROJECT	KOLGAON OC	MONTH	NOVEMBER

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
29-11-19	7.8	22	24	<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: 2019
MONTH: NOVEMBER

MANAGER OFFICE: WKON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	50.2	47.4
NOV 2019	24-11-19	55.8	54.6
TLV		75	70

COLONY (MUGOLI): WKON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	46.7	43.8
NOV 2019	24-11-19	43.9	42.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

MUGOLI OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

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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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A36	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	WANI AREA	YEAR	2019
NAME OF PROJECT	MUGOLI OC	MONTH	NOVEMBER

SUB - STATION: WMOA1					
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
13-11-19	124	94	28	21	<10
29-11-19	90	65	18	14	<10
TLV	600	300	60	120	120

SAM OFFICE: WMOA2					
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
13-11-19	235	178	53	40	12
30-11-19	140	102	29	22	<10
TLV	600	300	60	120	120

KAILSHNAGAR TOWNSHIP FILTER PLANT : WMOA3					
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
13-11-19	40	32	10	8	<10
30-11-19	62	46	13	10	<10
TLV	200	100	60	80	80

TUBEWELL NEAR SAKHARA VILLAGE: WMOA4					
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
13-11-19	91	73	23	18	<10
30-11-19	185	137	38	30	<10
TLV	200	100	60	80	80



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FUGITIVE DUST MONITORING DATA

SECURITY CHECK POST OFFICE: WMOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/l)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
12-11-19	171	135	35



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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W36	DATE OF ISSUE	31.12.19
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	WANI AREA	YEAR	2019
NAME OF PROJECT	MUGOLI OC	MONTH	NOVEMBER

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
30-11-09	6.7	48	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
11-11-19	6.6	54	48	<2
30-11-19	6.4	60	56	<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: 2019
MONTH: NOVEMBER

CHP: WMON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	62.4	58.6
NOV 2019	24-11-19	65.6	64.9
TLV		75	70

COLONY: WMON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	46.7	43.8
NOV 2019	24-11-19	43.9	42.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

NAIGAON OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

Environment Laboratory

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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	SAM OFFICE:	WNGOA1
2	WORKSHOP ETP NOCM - I:	WNGOA2
3	BELLORA REHABILITATION VILLAGE:	WNGOA3
4	FILTER PLANT NEAR VIP GUEST HOUSE:	WNGOA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	WEIGHT BRIDGE:	WNGOF1

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP:	WNGON1
2	COLONY (GHUGUS):	WNGON3

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A37	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	WANI AREA	YEAR	2019
NAME OF PROJECT	NAIGAON OC	MONTH	NOVEMBER

SAM OFFICE: WNGO1					
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
09-11-19	296	224	67	50	15
24-11-19	270	197	55	43	13
TLV	600	300	60	120	120

WORKSHOP ETP NOCM - I: WNGO2					
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
05-11-19	462	350	74	49	15
19-11-19	287	145	43	21	15
TLV	600	300	60	120	120

BELLORA REHABILITATION VILLAGE: WNGO3					
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
10-11-19	230	184	59	46	14
24-11-19	114	84	24	19	<10
TLV	200	100	60	80	80

FILTER PLANT NEAR VIP GUEST HOUSE: WNGO4					
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
09-11-19	215	172	53	33	10
24-11-19	148	109	31	24	<10
TLV	200	100	60	80	80



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NOISE LEVEL DATA

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

YEAR: 2019
MONTH: NOVEMBER

CHP: WNGON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	56.4	54.2
NOV 2019	24-11-19	62.9	62.6
TLV		75	70

COLONY (GHUGUS): WNGON3			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	46.1	44.9
NOV 2019	24-11-19	45.5	44.9
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

NILJAI DEEP OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

Environment Laboratory

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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	ETP(DOMESTIC EFFLUENT) - TREATED WATER	WNOW3

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP:	WNON1
2	CHP (S):	WNON2
3	COLONY:	WNON3

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A35	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	WANI AREA	YEAR	2019
NAME OF PROJECT	NILJAI DEEP OC	MONTH	NOVEMBER

CIVIL OFFICE- NILJAI: WNOA1					
DATE OF SAMPLING	PARAMETERS				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-11-19	198	150	45	34	10
19-11-19	62	45	13	10	<10
TLV	600	300	60	120	120

WORKSHOP ETP NOCM: WNOA2					
DATE OF SAMPLING	PARAMETERS				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-11-19	462	350	74	49	15
19-11-19	287	145	43	21	15
TLV	600	300	60	120	120

NILJAI COLONY: WNOA3					
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
05-11-19	118	94	30	24	<10
19-11-19	178	132	37	29	<10
TLV	200	100	60	80	80

TARODA VILLAGE: WNOA4					
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
05-11-19	121	97	31	24	<10
19-11-19	70	52	15	11	<10
TLV	200	100	60	80	80



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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W35	DATE OF ISSUE	31.12.19
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	WANI AREA	YEAR	2019
NAME OF PROJECT	NILJAI DEEP OC	MONTH	NOVEMBER

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
19-11-19	6.6	42	36	<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
05-11-19	7.3	48	44	<2
19-11-19	7	34	32	<2
TLV	5.5 - 9.0	100	250	10

P(DOMESTIC EFFLUENT) - TREATED WATER: WNOW3		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS (in mg/l)	BOD (in mg/l)
DETECTION LIMIT	10	2
05-11-19	28	9
19-11-19	58	12
TLV	100	30



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NOISE LEVEL DATA

NAME OF AREA: WANI AREA
NAME OF PROJECT: NILJAI DEEP OC

YEAR: 2019
MONTH: NOVEMBER

CHP: WNON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	61.1	58.7
NOV 2019	24-11-19	64.5	63.8
TLV		75	70

CHP (S): WNON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	60.9	57.2
NOV 2019	24-11-19	63.9	62.7
TLV		75	70

COLONY: WNON3			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	45.6	42.9
NOV 2019	24-11-19	44.7	43.9
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

PENGANGA OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

Environment Laboratory

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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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A40	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	WANI AREA	YEAR	2019
NAME OF PROJECT	PENGANGA OC	MONTH	NOVEMBER

MANAGER OFFICE: WPOA1					
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
11-11-19	331	250	65	51	15
25-11-19	212	154	43	34	10
TLV	600	300	60	120	120

NEAR MINE: WPOA2					
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
11-11-19	465	352	68	49	15
29-11-19	282	158	42	26	12
TLV	600	300	60	120	120

VIRUR VILLAGE : WPOA3					
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
11-11-19	238	164	51	41	12
29-11-19	120	86	24	22	17
TLV	200	100	60	80	80

GADEGAON VILLAGE: WPOA4					
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
12-11-19	139	88	29	18	<10
29-11-19	65	48	13	11	<10
TLV	200	100	60	80	80



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FUGITIVE DUST MONITORING DATA

NEAR WORKSHOP: WPOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/l)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
11-11-19	510	401	104



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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W40	DATE OF ISSUE	31.12.19
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	WANI AREA	YEAR	2019
NAME OF PROJECT	PENGANGA OC	MONTH	NOVEMBER

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
28-11-19	7	40	44	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

NAME OF AREA: WANI AREA
NAME OF PROJECT: PENGANGA OC

YEAR: 2019
MONTH: NOVEMBER

NEAR WORKSHOP: WPON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	55.7	48.6
NOV 2019	24-11-19	57.9	56.5
TLV		75	

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ENVIRONMENTAL MONITORING REPORT

GHONSA OC

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A55	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	WANI NORTH	YEAR	2019
NAME OF PROJECT	GHONSA OC	MONTH	NOVEMBER

MANAGER OFFICE: WNGO1					
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
12-11-19	374	275	62	43	13
28-11-19	279	218	51	38	11
TLV	600	300	60	120	120

SAM OFFICE/ CANTEEN: WNGO2					
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
13-11-19	154	113	29	26	<10
28-11-19	120	93	26	21	<10
TLV	600	300	60	120	120

GHONSA VILLAGE: WNGO3					
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
11-11-19	273	188	58	37	11
28-11-19	154	117	33	26	<10
TLV	200	100	60	80	80

GUEST HOUSE/ COLONY: WNGO4					
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
13-11-19	233	161	50	40	12
28-11-19	199	151	42	33	10
TLV	200	100	60	80	80



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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W55	DATE OF ISSUE	31.12.19
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	WANI NORTH	YEAR	2019
NAME OF PROJECT	GHONSA OC	MONTH	NOVEMBER

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
27-11-19	7.48	38	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: GHONSA OC

YEAR: 2019
MONTH: NOVEMBER

MANAGER OFFICE: WNGON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	07-11-19	55.4	54.3
NOV 2019	19-11-19	56.8	55.9
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

JUNAD OC

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

Environment Laboratory

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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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A53	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	WANI NORTH	YEAR	2019
NAME OF PROJECT	JUNAD OC	MONTH	NOVEMBER

SAM OFFICE: WNJOA1					
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
06-11-19	377	277	65	34	10
22-11-19	298	233	65	46	14
TLV	600	300	60	120	120

BORGAON VILLAGE: WNJOA2					
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
07-11-19	325	224	59	42	13
23-11-19	235	178	50	39	12
TLV	200	100	60	80	80

BHALAR TOWNSHIP: WNJOA3					
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
08-11-19	107	81	24	19	<10
23-11-19	85	66	19	15	<10
TLV	200	100	60	80	80

UKNI VILLAGE: WNJOA4					
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
08-11-19	338	256	57	39	12
23-11-19	410	320	90	43	13
TLV	200	100	60	80	80



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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W53	DATE OF ISSUE	31.12.19
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	WANI NORTH	YEAR	2019
NAME OF PROJECT	JUNAD OC	MONTH	NOVEMBER

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
21-11-19	7.48	32	28	<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
05-11-19	7.52	38	36	<2
21-11-19	7.36	36	32	<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: 2019
MONTH: NOVEMBER

MANAGER OFFICE: WNJON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	07-11-19	55.7	48.6
NOV 2019	19-11-19	56.8	55.9
TLV		75	70

BHALAR COLONY: WNJON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	07-11-19	45.3	42.9
NOV 2019	19-11-19	44.8	43.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

KOLARPIMPRI OC

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

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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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A50	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	WANI NORTH	YEAR	2019
NAME OF PROJECT	KOLARPIMPRI OC	MONTH	NOVEMBER

SUBSTATION KOLARPIMPRI: WNKO1					
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
11-07-19	83	76	22	17	18
22-07-19	78	64	23	19	25
TLV	600	300	60	120	120

REST SHELTER: WNKO2					
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
11-07-19	59	50	35	26	11
22-07-19	106	70	45	22	22
TLV	600	300	60	120	120

PIMPRI VILLAGE: WNKO3					
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
11-07-19	82	73	25	22	13
21-07-19	107	23	16	20	28
TLV	200	100	60	80	80

WATER FILTER PLANT PRAGATI NAGAR: WNKO4					
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
06-07-19	76	52	27	25	20
20-07-19	125	60	6	21	22
TLV	200	100	60	80	80



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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W50	DATE OF ISSUE	31.12.19
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	WANI NORTH	YEAR	2019
NAME OF PROJECT	KOLARPIMPRI OC	MONTH	NOVEMBER

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	4	2
25-11-19	7.38	54	48	<2
TLV	5.5 - 9.0	100	250	10

ETP (TREATED): WNKOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
12-11-19	7.32	30	28	<2
25-11-19	7.48	34	32	<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: 2019
MONTH: NOVEMBER

CHP: WNKON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	07-11-19	64.7	63.5
NOV 2019	19-11-19	62.8	61.9
TLV		75	70

COLONY PRAGATI NAGAR: WNKON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	07-11-19	46.2	44.6
NOV 2019	19-11-19	45.6	44.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

KUMBHARKHANI UG

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 8000003



Nov-19

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A54	DATE OF ISSUE	31.12.19
NAME OF CUSTOMER	WCL, NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/17-K/520-522 DATED: 18.04.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	WANI NORTH	YEAR	2019
NAME OF PROJECT	KUMBHARKHANI UG	MONTH	NOVEMBER

PROJECT MANAGER OFFICE: WNKUA1					
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
13-11-19	304	224	58	41	12
27-11-19	302	236	66	42	13
TLV	600	300	60	120	120

SAM OFFICE/ CANTEEN: WNKUA2					
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
13-11-19	154	113	29	26	<10
28-11-19	120	93	26	21	<10
TLV	600	300	60	120	120

GUEST HOUSE / COLONY: WNKUA3					
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
13-11-19	233	161	50	40	12
28-11-19	199	151	42	33	10
TLV	200	100	60	80	80

GHONSA VILLAGE: WNKUA4					
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
11-11-19	273	188	58	37	11
28-11-19	154	117	33	26	<10
TLV	200	100	60	80	80



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NOISE LEVEL DATA

NAME OF AREA: WANI NORTH YEAR: 2019
NAME OF PROJECT: KUMBHARKHANI UG MONTH: NOVEMBER

FAN HOUSE: WNKUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	07-11-19	43.2	42.3
NOV 2019	19-11-19	46.7	45.5
TLV		75	70

COLONY: WNKUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	07-11-19	42.6	41.4
NOV 2019	19-11-19	43.6	42.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

PIMPALGAON OC

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

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

Pimpalgaon Opencast Project is located in Wani Tahsil of Yeotmal district of Maharashtra State. It is administered by Wani North Area of Western Coalfields Limited. Wardha river which flows from North to west acts as the main drainage of the area and is about 2.5 km to 3 km from Pimpalgaon. The climate of this area is tropical. The above-mentioned industries are also expected to contribute in increasing the pollution load of the area.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	SAM OFFICE:	WNPOA1
2	WORKSHOP:	WNPOA2
3	WATER FILTER PLANT PRAGATI NAGAR:	WNPOA3
4	BORGAON VILLAGE:	WNPOA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	WEIGHT BRIDGE:	WNPOF1
2	CHP:	WNPOF2

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP:	WNPON1
2	COLONY PRAGATI NAGAR:	WNPON2

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A51	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	WANI NORTH	YEAR	2019
NAME OF PROJECT	PIMPALGAON OC	MONTH	NOVEMBER

SAM OFFICE: WNPOA1					
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
14-11-19	393	289	67	36	11
22-11-19	412	322	70	41	12
TLV	600	300	60	120	120

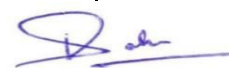
WORKSHOP: WNPOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/l)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-11-19	366	269	64	42	13
22-11-19	308	241	67	33	10
TLV	600	300	60	120	120

WATER FILTER PLANT PRAGATI NAGAR: WNPOA3					
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
14-11-19	335	231	52	41	12
22-11-19	160	121	34	27	<10
TLV	200	100	60	80	80

BORGAON VILLAGE: WNPOA4					
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
07-11-19	325	224	59	42	13
23-11-19	235	178	50	39	12
TLV	200	100	60	80	80



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NOISE LEVEL DATA

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

YEAR: 2019
MONTH: NOVEMBER

CHP: WNPN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	07-11-19	61.7	60.1
NOV 2019	19-11-19	63.7	62.9
TLV		75	70

COLONY PRAGATI NAGAR: WNPN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	07-11-19	46.2	44.6
NOV 2019	19-11-19	45.6	44.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

RAJUR UG

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A52	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	WANI NORTH	YEAR	2019
NAME OF PROJECT	RAJUR UG	MONTH	NOVEMBER

NEAR BANDEWADA INCLINE: WNRUA1					
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
08-11-19	307	226	58	38	11
28-11-19	271	212	59	37	11
TLV	600	300	60	120	120

SAM OFFICE: WNRUA2					
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
08-11-19	420	309	63	41	12
28-11-19	229	179	50	39	12
TLV	600	300	60	120	120

PIT OFFICE/ COLONY: WNRUA3					
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
08-11-19	225	139	37	25	14
28-11-19	108	84	24	18	<10
TLV	600	300	60	120	120

HUTMENT: WNRUA4					
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
08-11-19	364	251	58	43	13
28-11-19	164	124	35	27	<10
TLV	200	100	60	80	80



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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W52	DATE OF ISSUE	31.12.19
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	WANI NORTH	YEAR	2019
NAME OF PROJECT	RAJUR UG	MONTH	NOVEMBER

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
27-11-19	7.36	34	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: RAJUR UG

YEAR: 2019
MONTH: NOVEMBER

FAN HOUSE: WNRUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	07-11-19	63.6	62.3
NOV 2019	19-11-19	69.5	68.9
TLV		75	70

COLONY: WNRUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	07-11-19	43	42.4
NOV 2019	19-11-19	44.6	43.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

UKNI OC

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

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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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A49	DATE OF ISSUE	31.12.19
NAME OF CUSTOMER	WCL, NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	31.12.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	WANI NORTH	YEAR	2019
NAME OF PROJECT	UKNI OC	MONTH	NOVEMBER

WORKSHOP PREMISES: WNUOA1					
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
08-11-19	220	152	47	38	11
23-11-19	95	72	20	16	<10
TLV	600	300	60	120	120

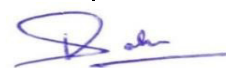
BHALAR TOWNSHIP: WNUOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/l)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-11-19	107	81	24	19	<10
23-11-19	85	66	19	15	<10
TLV	200	100	60	80	80

UKNI VILLAGE: WNUOA3					
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
08-11-19	338	256	57	39	12
23-11-19	410	320	90	43	13
TLV	200	100	60	80	80

PIMPRI VILLAGE: WNUOA4					
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
08-11-19	125	86	27	22	<10
20-11-19	111	84	24	19	<10
TLV	200	100	60	80	80



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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W49	DATE OF ISSUE	31.12.19
NAME OF CUSTOMER	WCL, NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	31.12.19		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	WANI NORTH	YEAR	2019
NAME OF PROJECT	UKNI OC	MONTH	NOVEMBER

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
22-11-19	7.46	52	44	<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
07-11-19	7.62	34	32	<2
22-11-19	7.38	48	36	<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
07-11-19	64	11.4
22-11-19	68	10.6
TLV	100	30



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NOISE LEVEL DATA

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

YEAR: 2019
MONTH: NOVEMBER

CHP: WNUON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	07-11-19	60.2	59.2
NOV 2019	19-11-19	64.9	63.9
TLV		75	70

BHALAR COLONY: WNUON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	07-11-19	45.3	42.9
NOV 2019	19-11-19	44.8	43.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

WANI RAILWAY SIDING

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

Environment Laboratory

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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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A56	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	WANI NORTH AREA	YEAR	2019
NAME OF PROJECT	WANI RAILWAY SIDING	MONTH	NOVEMBER

FARMHOUSE NEAR MSH6 : WNRS1					
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
06-11-19	282	208	54	48	14
07-11-19	388	285	6	51	15
12-11-19	299	220	57	48	15
11-11-19	392	288	55	53	16
20-11-19	348	272	56	45	14
21-11-19	256	195	45	38	12
26-11-19	243	182	43	32	11
27-11-19	353	276	67	42	13
TLV	600	300	60	120	120

SHETHKARI DHANYA BAZAR : WNRS2					
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
06-11-19	141	97	30	24	<10
07-11-19	202	139	50	35	10
12-11-19	232	160	58	40	12
11-11-19	273	188	58	47	14
20-11-19	145	110	31	24	<10
21-11-19	132	100	28	22	<10
26-11-19	151	115	32	25	<10
27-11-19	135	102	29	22	<10
TLV	200	100	60	80	80

ENV. MONITORING REPORT
WANI RAILWAY SIDING

RES.HOUSE VITTALWADI WANI: WNRS3					
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
06-11-19	86	60	21	15	<10
07-11-19	174	120	43	30	<10
12-11-19	291	201	62	41	12
11-11-19	210	145	52	36	11
20-11-19	128	97	27	21	<10
21-11-19	117	89	25	20	<10
26-11-19	116	88	25	19	<10
27-11-19	125	95	27	21	<10
TLV	200	100	60	80	80



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NOISE LEVEL DATA

NAME OF AREA: WANI NORTH AREA YEAR: 2019
NAME OF PROJECT: WANI RAILWAY SIDING MONTH: NOVEMBER

COAL STOCK YARD: WNRS1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	07-11-19	46.6	44.4
NOV 2019	19-11-19	44.9	43.8
TLV		75	70

NEAR INCHARGE OFFICE: WNRS2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	07-11-19	52.9	47.7
NOV 2019	19-11-19	61.5	59.7
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

AMBARA OC

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



NOVEMBER 2019

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

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Fugitive Dust Monitoring locations:

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

Noise Level Monitoring location :


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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A74	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	KANHAN AREA	YEAR	2019
NAME OF PROJECT	AMBARA OC	MONTH	NOVEMBER

MANAGER OFFICE : KAOA1					
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
15-11-19	245	179	46	39	12
30-11-19	381	297	59	45	14
TLV	600	300	60	120	120

PIT OFFICE- MOHAN: KAOA2					
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
15-11-19	259	189	50	42	12
30-11-19	372	291	58	44	13
TLV	600	300	60	120	120

COLONY- HEALTH CENTRE: KAOA3					
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
15-11-19	203	140	41	29	<10
23-11-19	228	173	48	28	8
TLV	200	100	60	80	80

AMBARA VILLAGE: KAOA4					
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
15-11-19	60	26	18	12	<10
23-11-19	47	36	10	8	<10
TLV	200	100	60	80	80

Lakshmi

SCIENTIFIC ASSISTANT

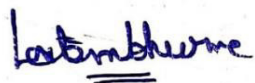
Deepanshu

DEEPANSHU SAHU
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FUGITIVE DUST MONITORING DATA

CHP: KAOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/l)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
15-11-19	135	106	28



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NOISE LEVEL DATA

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

YEAR: 2019
MONTH: NOVEMBER

MANAGER OFFICE: KAON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	14-11-19	55.4	54.9
NOV 2019	25-11-19	49.7	45.8
TLV		75	70

COLONY (MOHAN/MAORI): KAON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	14-11-19	44.8	43.9
NOV 2019	25-11-19	46.5	43.6
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

AMBARA UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



43770



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

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A72	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	KANHAN AREA	YEAR	2019
NAME OF PROJECT	AMBARA UG	MONTH	NOVEMBER

SAM OFFICE- AMBARA : KAUA1					
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
15-11-19	281	205	56	45	14
30-11-19	511	399	64	48	14
TLV	600	300	60	120	120

PIT OFFICE- MOHAN: KAUA2					
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
15-11-19	259	189	50	42	12
30-11-19	372	291	58	44	13
TLV	600	300	60	120	120

COLONY- HEALTH CENTRE: KAUA3					
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
15-11-19	203	140	41	29	<10
23-11-19	228	173	48	28	8
TLV	200	100	60	80	80

AMBARA VILLAGE: KAUA4					
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
15-11-19	60	26	18	12	<10
23-11-19	47	36	10	8	<10
TLV	200	100	60	80	80

Labambhurne

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
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NOISE LEVEL DATA

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

YEAR: 2019
MONTH: NOVEMBER

COLONY(MOHAN/MAORI) KAUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	14-11-19	44.8	43.9
NOV 2019	25-11-19	46.5	43.6
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

AREA WORKSHOP

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



43770

Environment Laboratory

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CMPDI

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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.

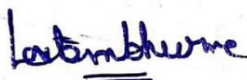
WATER: Water quality is monitored on fortnightly basis

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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A80	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	KANHAN AREA	YEAR	2019
NAME OF PROJECT	AREA WORKSHOP	MONTH	NOVEMBER

AREA WORKSHOP : KAWA1					
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
15-11-19	279	190	50	42	13
30-11-19	245	176	49	39	12
TLV	600	300	60	120	120



SCIENTIFIC ASSISTANT



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NOISE LEVEL DATA

NAME OF AREA: KANHAN AREA **YEAR: 2019**
NAME OF PROJECT: AREA WORKSHOP **MONTH: NOVEMBER**

WORKSHOP PREMISES: KAWN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	14-11-19	56.9	55.9
NOV 2019	25-11-19	46.4	42.8
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

DAMUA OC

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



43770

Environment Laboratory

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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Noise Level Monitoring location :


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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A78	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	KANHAN AREA	YEAR	2019
NAME OF PROJECT	DAMUA OC	MONTH	NOVEMBER

OC OFFICE : KDOA1					
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
15-11-19	218	148	55	33	10
24-11-19	161	85	38	14	<10
TLV	600	300	60	120	120

SAM OFFICE- DAMUA: KDOA2					
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
14-11-19	91	62	23	14	<10
25-11-19	52	41	11	9	3
TLV	600	300	60	120	120

RESCUE STATION (NEAR INCLINE 24&25): KDOA3					
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
14-11-19	325	221	52	49	15
25-11-19	355	277	68	61	18
TLV	600	300	60	120	120

NANDORA VILLAGE: KDOA4					
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
15-11-19	49	34	10	7	<10
25-11-19	77	58	16	13	<10
TLV	200	100	60	80	80

Latambhurne

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
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NOISE LEVEL DATA

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

YEAR: 2019
MONTH: NOVEMBER

NEAR MANAGER OFFICE: KDON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	14-11-19	42.9	42.2
NOV 2019	25-11-19	47.4	45.6
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

DAMUA UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



Nov-19

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

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REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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4	NOISE LEVEL DATA	5

INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Noise Level Monitoring location :


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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

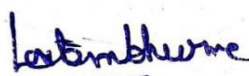
Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A77	DATE OF ISSUE	31.12.19
NAME OF CUSTOMER	WCL, NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	KANHAN AREA	YEAR	2019
NAME OF PROJECT	DAMUA UG	MONTH	NOVEMBER

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
14-11-19	91	62	23	14	<10
25-11-19	52	41	11	9	3
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
14-11-19	325	221	52	49	15
25-11-19	355	277	68	61	18
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
15-11-19	49	34	10	7	<10
25-11-19	77	58	16	13	<10
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: 2019
MONTH: NOVEMBER

COLONY: KDUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	14-11-19	43.8	42.9
NOV 2019	25-11-19	44.1	42.8
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

GHORAWARI OC

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



Nov-19

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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A76	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	KANHAN AREA	YEAR	2019
NAME OF PROJECT	GHORAWARI OC	MONTH	NOVEMBER

MANAGER OFFICE-OC : KGOA1					
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
15-11-19	231	157	58	35	10
23-11-19	273	213	60	47	14
TLV	600	300	60	120	120

SAM - OFFICE GHORAWARI : KGOA2					
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
15-11-19	77	56	21	12	<10
24-11-19	48	37	10	8	<10
TLV	600	300	60	120	120

COLONY- HEALTH CENTRE JHARNA: KGOA3					
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
15-11-19	212	146	42	31	<10
24-11-19	187	142	40	31	<10
TLV	200	100	60	80	80

PANARA VILLAGE: KGOA4					
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
15-11-19	244	168	49	35	11
23-11-19	223	169	47	27	8
TLV	200	100	60	80	80

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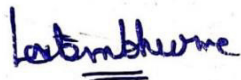
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FUGITIVE DUST MONITORING DATA

PALACHAURI: KGOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/l)		
	SPM*	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
15-11-19	830	654	79



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NOISE LEVEL DATA

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

YEAR: 2019
MONTH: NOVEMBER

MANAGER OFFICE: KGON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	14-11-19	52.6	51.9
NOV 2019	25-11-19	48.6	44.2
TLV		75	70

COLONY (JHARNA UG) KGON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	14-11-19	44.8	43.7
NOV 2019	25-11-19	44.7	41.5
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

JHARNA - UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



43770

Environment Laboratory

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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.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A75	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	KANHAN AREA	YEAR	2019
NAME OF PROJECT	JHARNA - UG	MONTH	NOVEMBER

MANAGER OFFICE- JHARNA UG : KJUA1					
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
15-11-19	123	90	33	20	<10
24-11-19	116	90	25	20	<10
TLV	600	300	60	120	120

SAM OFFICE- GHORAWARI: KJUA2					
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
15-11-19	77	56	21	12	<10
24-11-19	48	37	10	8	<10
TLV	600	300	60	120	120

COLONY- HEALTH CENTRE JHARNA: KJUA3					
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
15-11-19	212	146	42	31	<10
24-11-19	187	142	40	31	<10
TLV	200	100	60	80	80

PANARA VILLAGE: KJUA4					
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
15-11-19	244	168	49	35	11
23-11-19	223	169	47	27	<10
TLV	200	100	60	80	80

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NOISE LEVEL DATA

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

YEAR: 2019
MONTH: NOVEMBER

FAN HOUSE: KJUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	14-11-19	69.9	68.7
NOV 2019	25-11-19	68.6	65.9
TLV		75	70

COLONY: KJUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	14-11-19	44.8	43.7
NOV 2019	25-11-19	44.7	41.5
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

MOHAN/ MAORI UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



Nov-19

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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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A73	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	KANHAN AREA	YEAR	2019
NAME OF PROJECT	MOHAN/ MAORI UG	MONTH	NOVEMBER

SAM OFFICE- AMBARA : KMUA1					
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
15-11-19	281	205	56	45	14
30-11-19	511	399	64	48	14
TLV	600	300	60	120	120

PIT OFFICE- MOHAN: KMUA2					
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
15-11-19	259	189	50	42	12
30-11-19	372	291	58	44	13
TLV	600	300	60	120	120

COLONY- HEALTH CENTRE: KMUA3					
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
15-11-19	203	140	41	29	<10
23-11-19	228	173	48	28	8
TLV	200	100	60	80	80

AMBARA VILLAGE: KMUA4					
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
15-11-19	60	26	18	12	<10
23-11-19	47	36	10	8	<10
TLV	200	100	60	80	80

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Deepanshu Sahu

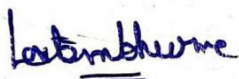
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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W73	DATE OF ISSUE	31.12.19
NAME OF CUSTOMER	WCL, NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	KANHAN AREA	YEAR	2019
NAME OF PROJECT	MOHAN/ MAORI UG	MONTH	NOVEMBER

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
26-11-19	6.2	28	32	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

NAME OF AREA: KANHAN AREA YEAR: 2019
NAME OF PROJECT: MOHAN/ MAORI UG MONTH: NOVEMBER

FAN HOUSE: KMUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	14-11-19	68.9	67.8
NOV 2019	25-11-19	69.5	67.6
TLV		75	70

COLONY: KMUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	14-11-19	44.8	43.9
NOV 2019	25-11-19	46.5	43.6
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

NANDAN UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



Nov-19

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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.

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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A71	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	KANHAN AREA	YEAR	2019
NAME OF PROJECT	NANDAN UG	MONTH	NOVEMBER

SAM OFFICE- NANDAN I UG: KNUA1					
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
14-11-19	81	59	22	13	<10
26-11-19	121	94	26	21	<10
TLV	600	300	60	120	120

PIT OFFICE- NANDAN II UG: KNUA2					
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
14-11-19	312	193	43	34	18
25-11-19	258	201	56	44	13
TLV	600	300	60	120	120

HEALTH CENTRE- NANDAN UG: KNUA3					
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
13-11-19	44	30	11	6	<10
26-11-19	110	88	23	22	10
TLV	200	100	60	80	80

NANDAN WATER FILTER PLANT: KNUA4					
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
13-11-19	92	54	15	9	<10
26-11-19	152	115	32	25	<10
TLV	200	100	60	80	80

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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W71	DATE OF ISSUE	31.12.19
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	KANHAN AREA	YEAR	2019
NAME OF PROJECT	NANDAN UG	MONTH	NOVEMBER

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
25-11-19	7.1	26	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: NANDAN UG

YEAR: 2019
MONTH: NOVEMBER

FAN HOUSE UG II: KNUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	14-11-19	61.5	60.9
NOV 2019	25-11-19	67.7	66.9
TLV		75	70

COLONY: KNUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	14-11-19	45.7	44.9
NOV 2019	25-11-19	44.8	42.7
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

NANDAN WASHERY

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



Nov-19

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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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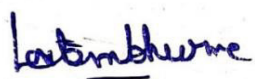
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NAME OF CUSTOMER	WCL, NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	KANHAN AREA	YEAR	2019
NAME OF PROJECT	NANDAN WASHERY	MONTH	NOVEMBER

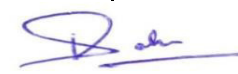
SUBSTATION : KNWA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/l)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-11-19	189	99	34	13	<10
27-11-19	273	213	54	37	11
TLV	600	300	60	120	120

SAM OFFICE- NANDAN I UG: KNWA2					
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
14-11-19	81	59	22	13	<10
26-11-19	121	94	26	21	<10
TLV	600	300	60	120	120

COLONY-GUEST HOUSE: KNWA3					
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
13-11-19	54	37	13	8	<10
26-11-19	166	126	35	28	<10
TLV	200	100	60	80	80

NANDAN WATER FILTER PLANT: KNWA4					
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
13-11-19	92	54	15	9	<10
26-11-19	152	115	32	25	<10
TLV	200	100	60	80	80


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NOISE LEVEL DATA

NAME OF AREA: KANHAN AREA YEAR: 2019
NAME OF PROJECT: NANDAN WASHERY MONTH: NOVEMBER

WASHERY: KNWN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	14-11-19	48.6	47.8
NOV 2019	25-11-19	52.9	47.7
TLV		75	70

COLONY: KNWN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	14-11-19	44.8	43.9
NOV 2019	25-11-19	45.6	42.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

TANDSI UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



Nov-19

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

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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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A79	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	KANHAN AREA	YEAR	2019
NAME OF PROJECT	TANDSI UG	MONTH	NOVEMBER

WORKSHOP : KTUA1					
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
12-11-19	87	59	22	13	<10
27-11-19	28	20	6	<6	<10
TLV	600	300	60	120	120

LAMP ROOM: KTUA2					
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
12-11-19	90	61	23	13	<10
27-11-19	117	84	24	19	<10
TLV	600	300	60	120	120

COLONY-NEAR HEALTH CENTRE: KTUA3					
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
12-11-19	114	86	34	13	<10
27-11-19	116	88	25	19	<10
TLV	200	100	60	80	80

JET HOSTEL: KTUA4					
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
12-11-19	45	31	9	7	<10
28-11-19	35	24	7	<6	<10
TLV	200	100	60	80	80

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Deepanshu Sahu

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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W79	DATE OF ISSUE	31.12.19
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	KANHAN AREA	YEAR	2019
NAME OF PROJECT	TANDSI UG	MONTH	NOVEMBER

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
24-11-19	7.2	20	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: 2019
MONTH: NOVEMBER

FAN HOUSE: KTUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	14-11-19	69.9	68.8
NOV 2019	25-11-19	69.2	67.4
TLV		75	70

COLONY: KTUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	14-11-19	44.8	43.9
NOV 2019	25-11-19	44.4	41.9
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

CHATTARPUR-I & II UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



NOVEMBER 2019

Environment Laboratory

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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.

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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A81	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	PATHAKHERA AREA	YEAR	2019
NAME OF PROJECT	CHATTARPUR-I & II UG	MONTH	NOVEMBER

SUBSTATION- CHATTARPUR I UG: PKCUA1					
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
08-11-19	244	166	51	37	11
28-11-19	181	130	36	29	<10
TLV	600	300	60	120	120

SAM OFFICE: PKCUA2					
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
08-11-19	288	196	53	43	13
29-11-19	143	103	29	23	<10
TLV	600	300	60	120	120

SUBSTATION- CHATTARPUR II UG: PKCUA3					
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
08-11-19	204	139	51	30	<10
28-11-19	140	99	31	23	<10
TLV	600	300	60	120	120

CHATTARPUR VILLAGE: PKCUA4					
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
08-11-19	154	106	31	22	<10
28-11-19	115	87	24	19	<10
TLV	200	100	60	80	80



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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W81	DATE OF ISSUE	31.12.19
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	PATHAKHERA AREA	YEAR	2019
NAME OF PROJECT	CHATTARPUR-I & II UG	MONTH	NOVEMBER

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
28-11-19	8.3	18	36	<2
TLV	5.5 - 9.0	100	250	10

MINE DISCHARGE-II UG: PKCUW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
28-11-19	8.1	26	32	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

NAME OF AREA: PATHAKHERA AREA YEAR: 2019
NAME OF PROJECT: CHATTARPUR-I & II UG MONTH: NOVEMBER

FAN HOUSE- I UG: PKCUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	11-11-19	70.5	69.8
NOV 2019	29-11-19	69.3	68.1
TLV		75	70
FAN HOUSE- II UG: PKCUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	11-11-19	69.9	68.5
NOV 2019	29-11-19	69.2	68.4
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

SARNI UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



NOVEMBER 2019



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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TSET REPORT NO.	RIN/TR/SEPTEMBER-19/A83	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	PATHAKHERA AREA	YEAR	2019
NAME OF PROJECT	SARNI UG	MONTH	NOVEMBER

SUBSTATION SARNI UG: PKSUA1					
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
11-11-19	200	136	50	30	<10
30-11-19	187	111	36	21	13
TLV	600	300	60	120	120

NEAR DY. CME OFFICE: PKSUA2					
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
11-11-19	225	153	57	34	10
30-11-19	190	132	46	27	12
TLV	600	300	60	120	120

GM OFFICE ENTRANCE GATE: PKSUA3					
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
11-11-19	213	145	54	32	10
30-11-19	141	69	31	17	<10
TLV	200	100	60	80	80

PATHAKHERA COLONY: PKSUA4					
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
10-11-19	56	40	11	9	<10
30-11-19	65	49	14	11	<10
TLV	200	100	60	80	80



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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W83	DATE OF ISSUE	31.12.19
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	PATHAKHERA AREA	YEAR	2019
NAME OF PROJECT	SARNI UG	MONTH	NOVEMBER

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
29-11-19	7.6	30	48	<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: 2019
MONTH: NOVEMBER

FAN HOUSE: PKSUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	11-11-19	68.9	67.8
NOV 2019	29-11-19	69.9	67.5
TLV		75	70

COLONY: PKSUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	11-11-19	44.9	43.7
NOV 2019	29-11-19	46.5	43.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

SHOBHAPUR UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



NOVEMBER 2019

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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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A82	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	PATHAKHERA AREA	YEAR	2019
NAME OF PROJECT	SHOBHAPUR UG	MONTH	NOVEMBER


SAM OFFICE: PKSUA1					
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
09-11-19	259	176	48	39	12
29-11-19	371	267	65	59	18
TLV	600	300	60	120	120

SUBSTATION: PKSUA2					
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
09-11-19	235	160	59	35	11
29-11-19	256	172	55	39	13
TLV	600	300	60	120	120

SHOBHAPUR VILLAGE: PKSUA3					
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
09-11-19	53	38	11	8	<10
29-11-19	42	32	9	7	<10
TLV	200	100	60	80	80

SHOBHAPUR COLONY: PKSUA4					
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
11-11-19	66	45	30	7	<10
30-11-19	51	39	11	9	<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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W82	DATE OF ISSUE	31.12.19
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	PATHAKHERA AREA	YEAR	2019
NAME OF PROJECT	SHOBHAPUR UG	MONTH	NOVEMBER

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
29-11-19	7.4	26	44	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

NAME OF AREA: PATHAKHERA AREA YEAR: 2019
NAME OF PROJECT: SHOBHAPUR UG MONTH: NOVEMBER

FAN HOUSE: PKSUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	11-11-19	69.6	68.9
NOV 2019	29-11-19	70.1	68.9
TLV		75	70

COLONY: PKSUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	11-11-19	45.7	44.9
NOV 2019	29-11-19	45.2	42.6
TLV		44.5	45

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ENVIRONMENTAL MONITORING REPORT

TAWA II UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



NOVEMBER 2019



Environment Laboratory
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CMPDI

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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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A85	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	PATHAKHERA AREA	YEAR	2019
NAME OF PROJECT	TAWA II UG	MONTH	NOVEMBER

MANAGER OFFICE- TAWA II: PKT2UA1					
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
10-11-19	159	108	40	24	<10
30-11-19	179	88	29	13	<10
TLV	600	300	60	120	120

SAM OFFICE: PKT2UA2					
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
10-11-19	273	186	59	41	12
30-11-19	210	188	44	23	14
TLV	600	300	60	120	120

MPEB COLONY: PKT2UA3					
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
10-11-19	53	38	11	<6	<10
30-11-19	36	27	8	6	<10
TLV	200	100	60	80	80

HIRA PALLA/BHAGIKHAAPA VILLAGE: PKT2UA4					
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
09-11-19	54	39	11	9	<10
30-11-19	71	54	15	12	<10
TLV	200	100	60	80	80



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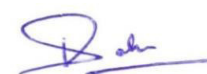
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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W85	DATE OF ISSUE	31.12.19
NAME OF CUSTOMER	WCL, NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	PATHAKHERA AREA	YEAR	2019
NAME OF PROJECT	TAWA II UG	MONTH	NOVEMBER

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
30-11-19	7.4	24	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: 2019
MONTH: NOVEMBER

FAN HOUSE: PKTUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	11-11-19	69.9	68.6
NOV 2019	29-11-19	69.1	67.9
TLV		75	70

COLONY: PKTUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	11-11-19	45.5	43.7
NOV 2019	29-11-19	44.9	43.2
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

TAWA UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



NOVEMBER 2019

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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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A84	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	PATHAKHERA AREA	YEAR	2019
NAME OF PROJECT	TAWA UG	MONTH	NOVEMBER

SAM OFFICE: PKTUA1					
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
10-11-19	273	186	59	41	12
30-11-19	210	188	44	23	14
TLV	600	300	60	120	120

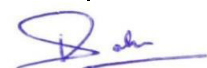
MANAGER OFFICE- TAWA II: PKTUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/l)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-11-19	159	108	40	24	<10
30-11-19	179	88	29	13	<10
TLV	600	300	60	120	120

MPEB COLONY: PKTUA3					
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
10-11-19	53	38	11	<6	<10
30-11-19	36	27	8	6	<10
TLV	200	100	60	80	80

HIRA PALLA/BHAGIKHAAPA VILLAGE: PKTUA4					
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
09-11-19	54	39	11	9	<10
30-11-19	71	54	15	12	<10
TLV	200	100	60	80	80



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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W84	DATE OF ISSUE	31.12.19
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	PATHAKHERA AREA	YEAR	2019
NAME OF PROJECT	TAWA UG	MONTH	NOVEMBER

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
30-11-19	7.2	22	36	<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: 2019
MONTH: NOVEMBER

FAN HOUSE: PKTUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	11-11-19	69.8	68.9
NOV 2019	29-11-19	68.2	67.5
TLV		75	70

COLONY: PKTUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	11-11-19	44.5	43.7
NOV 2019	29-11-19	44.9	43.2
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

BARKUHI OC

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



NOVEMBER 2019

Environment Laboratory
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CMPDI
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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 :	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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A57	DATE OF ISSUE	31.12.19
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(04:1999), NO _x (06:2006), SO ₂ (02:2001)], PM-2.5 & SPM*		
NAME OF AREA	PENCH AREA	YEAR	2019
NAME OF PROJECT	BARKUHI OC	MONTH	NOVEMBER

MANAGER OFFICE : PBOA1					
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
14-11-19	238	175	46	39	12
29-11-19	164	98	36	23	<10
TLV	600	300	60	120	120

SAM OFFICE: PBOA2					
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
14-11-19	320	235	57	42	13
29-11-19	115	90	25	20	<10
TLV	600	300	60	120	120

CHANDAMETA WORKSHOP: PBOA3					
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
14-11-19	145	106	39	23	<10
29-11-19	393	307	56	38	11
TLV	600	300	60	120	120

CENTRAL SCHOOL: PBOA4					
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
14-11-19	348	240	66	40	12
29-11-19	121	92	26	20	<10
TLV	200	100	60	80	80

J. Shan

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
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NOISE LEVEL DATA

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

YEAR: 2019
MONTH: NOVEMBER

NEAR BARKUHI HOSPITAL: PBON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	05-11-19	46.4	44.3
NOV 2019	28-11-19	47.9	43.6
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

CHANDAMETA WORKSHOP

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



NOVEMBER 2019

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INTRODUCTION

Chandameta Workshop is located in Chhindwara district of Madhya Pradesh. The project is administered by

ENV. MONITORING REPORT
CHANDAMETA WORKSHOP

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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A58	DATE OF ISSUE	31.12.19
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(04:1999), NO _x (06:2006), SO ₂ (02:2001)], PM-2.5 & SPM*		
NAME OF AREA	PENCH AREA	YEAR	2019
NAME OF PROJECT	CHANDAMETA WORKSHOP	MONTH	NOVEMBER

CHANDAMETA WORKSHOP : PCWA1					
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
14-11-19	145	106	39	23	<10
29-11-19	393	307	56	38	11
TLV	600	300	60	120	120

J. Shrivastava

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Deepanshu Sahu

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ENVIRONMENTAL MONITORING REPORT

CHINDA OC

PENCH AREA

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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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A64	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	PENCH AREA	YEAR	2019
NAME OF PROJECT	CHINDA OC	MONTH	NOVEMBER

SAM OFFICE: PCOA1					
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
11-11-19	180	102	32	19	<10
26-11-19	396	309	57	38	11
TLV	600	300	60	120	120

CHINDA OC - SITE: PCOA2					
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
11-11-19	113	83	31	18	<10
26-11-19	275	215	58	37	11
TLV	600	300	60	120	120

CHINDA VILLAGE: PCOA3					
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
05-11-19	90	62	22	13	<10
20-11-19	178	135	38	30	<10
TLV	200	100	60	80	80

CHINDA COLONY: PCOA4					
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
10-11-19	229	158	57	33	10
22-11-19	197	149	42	33	10
TLV	200	100	60	80	80

J. Shany

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

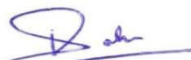
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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W64	DATE OF ISSUE	31.12.19
NAME OF CUSTOMER	WCL, NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	PENCH AREA	YEAR	2019
NAME OF PROJECT	CHINDA OC	MONTH	NOVEMBER

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
22-11-19	7.4	14	20	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

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

YEAR: 2019
MONTH: NOVEMBER

NEAR MANAGER OFFICE: PCON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	05-11-19	52.4	50.2
NOV 2019	28-11-19	47.6	43.2
TLV		75	70

COLONY: PCON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	05-11-19	49.9	47.2
NOV 2019	28-11-19	46.6	43.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

GANPATI UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



NOVEMBER 2019

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

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 contribute to the pollution.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	LAMP ROOM :	PGUA1
2	MANAGER OFFICE:	PGUA2
3	COLONY EDC- DISPENSARY:	PGUA3
4	GUEST HOUSE- PARASIA:	PGUA4

Fugitive Dust Monitoring locations:

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

Noise Level Monitoring location :


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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis.

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A60	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	PENCH AREA	YEAR	2019
NAME OF PROJECT	GANPATI UG	MONTH	NOVEMBER

LAMP ROOM : PGUA1					
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
10-11-19	138	101	37	22	<10
22-11-19	412	322	68	41	12
TLV	600	300	60	120	120

MANAGER OFFICE: PGUA2					
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
11-11-19	325	239	58	33	10
26-11-19	180	141	39	31	<10
TLV	600	300	60	120	120

COLONY EDC- DISPENSARY: PGUA3					
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
10-11-19	260	179	54	38	11
22-11-19	128	97	27	21	<10
TLV	200	100	60	80	80

GUEST HOUSE- PARASIA: PGUA4					
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
11-11-19	283	195	58	41	12
26-11-19	117	89	25	20	<10
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: GANPATI UG

YEAR: 2019
MONTH: NOVEMBER

FAN HOUSE: PGUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	28-11-19	45.6	44.2
TLV		75	70

COLONY: PGUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	05-11-19	47.6	45.8
NOV 2019	28-11-19	45.6	44.2
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

JAMUNIYA UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



NOVEMBER 2019

Environment Laboratory

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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 contributes to the pollution.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER OFFICE :	PJUA1
2	SUBSTATION:	PJUA2
3	JAMUNIYA VILLAGE:	PJUA3

Water Quality Monitoring location:

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

Noise Level Monitoring location :


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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A69	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	PENCH AREA	YEAR	2019
NAME OF PROJECT	JAMUNIYA UG	MONTH	NOVEMBER

MANAGER OFFICE : PJUA1					
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
09-11-19	360	263	57	38	11
25-11-19	311	243	53	34	10
TLV	600	300	60	120	120

SUBSTATION: PJUA2					
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
09-11-19	91	66	24	15	<10
25-11-19	120	94	26	21	<10
TLV	600	300	60	120	120

JAMUNIYA VILLAGE: PJUA3					
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
09-11-19	222	153	55	32	10
25-11-19	92	70	19	15	<10
TLV	200	100	60	80	80

J. Shan

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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W69	DATE OF ISSUE	31.12.19
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	PENCH AREA	YEAR	2019
NAME OF PROJECT	JAMUNIYA UG	MONTH	NOVEMBER

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
24-11-19	7.8	20	28	<2
TLV	5.5 - 9.0	100	250	10


 J. Shany
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NOISE LEVEL DATA

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

YEAR: 2019
MONTH: NOVEMBER

MANAGER OFFICE: PJUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	14-11-19	53.6	48.2
NOV 2019	19-11-19	49.2	44.8
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

MAHADEOPURI UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



NOVEMBER 2019

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

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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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A59	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	PENCH AREA	YEAR	2019
NAME OF PROJECT	MAHADEOPURI UG	MONTH	NOVEMBER

MANAGER OFFICE : PMUA1					
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
11-11-19	325	239	58	33	10
26-11-19	180	141	39	31	<10
TLV	600	300	60	120	120

LAMP ROOM: PMUA2					
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
10-11-19	138	101	37	22	<10
22-11-19	412	322	68	41	12
TLV	600	300	60	120	120

GUEST HOUSE PARASIA: PMUA3					
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
11-11-19	283	195	58	41	12
26-11-19	117	89	25	20	<10
TLV	200	100	60	80	80

COLONY EDC- DISPENSARY: PMUA4					
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
10-11-19	260	179	54	38	11
22-11-19	128	97	27	21	<10
TLV	200	100	60	80	80

J. Shany

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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W59	DATE OF ISSUE	31.12.19
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	PENCH AREA	YEAR	2019
NAME OF PROJECT	MAHADEOPURI UG	MONTH	NOVEMBER

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
25-11-19	6.7	24	36	<2
TLV	5.5 - 9.0	100	250	10

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NOISE LEVEL DATA

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

YEAR: 2019
MONTH: NOVEMBER

FAN HOUSE: PMUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	05-11-19	60.2	58.9
NOV 2019	28-11-19	69.9	67.6
TLV		75	70

COLONY: PMUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	05-11-19	44.8	43.2
NOV 2019	28-11-19	45.2	41.2
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

NEHARIA UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



NOVEMBER 2019

Environment Laboratory
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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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A67	DATE OF ISSUE	31.12.19
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(04:1999), NO _x (06:2006), SO ₂ (02:2001)], PM-2.5 & SPM*		
NAME OF AREA	PENCH AREA	YEAR	2019
NAME OF PROJECT	NEHARIA UG	MONTH	NOVEMBER

SAM OFFICE : PNUA1					
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
08-11-19	203	148	55	33	10
24-11-19	138	108	30	24	<10
TLV	600	300	60	120	120

LAMP ROOM/ SUBSTATION: PNUA2					
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
08-11-19	247	180	49	40	12
24-11-19	265	207	58	36	11
TLV	600	300	60	120	120

NEHARIA VILLAGE: PNUA3					
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
08-11-19	118	81	29	17	<10
24-11-19	189	143	40	32	<10
TLV	200	100	60	80	80

BOKAI TOWNSHIP: PNUA4					
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
08-11-19	170	117	42	25	<10
24-11-19	236	179	50	39	12
TLV	200	100	60	80	80

J. Shany

SCIENTIFIC ASSISTANT

Deepanshu Sahu

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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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W67	DATE OF ISSUE	31.12.19
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	PENCH AREA	YEAR	2019
NAME OF PROJECT	NEHARIA UG	MONTH	NOVEMBER

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
23-11-19	8.2	18	36	<2
TLV	5.5 - 9.0	100	250	10

J. Shany

SCIENTIFIC ASSISTANT

Deepanshu Sahu

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NOISE LEVEL DATA

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

YEAR: 2019
MONTH: NOVEMBER

FAN HOUSE: PNUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	14-11-19	68.9	66.3
NOV 2019	19-11-19	69.7	67.4
TLV		75	70

COLONY: PNUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	14-11-19	48.9	44.4
NOV 2019	19-11-19	44.9	42.6
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

NEW SETHIA OC

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



NOVEMBER 2019

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

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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A1	DATE OF ISSUE	31.12.19
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(04:1999), NO _x (06:2006), SO ₂ (02:2001)], PM-2.5 & SPM*		
NAME OF AREA	PENCH AREA	YEAR	2019
NAME OF PROJECT	NEW SETHIA OC	MONTH	NOVEMBER

NEW SETHIA OC SITE: PSOA1					
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
10-11-19	134	98	36	22	<10
22-11-19	346	270	56	39	12
TLV	600	300	60	120	120

SAM OFFICE: PSOA2					
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
11-11-19	180	102	32	19	<10
26-11-19	396	309	57	38	11
TLV	600	300	60	120	120

CHINDA VILLAGE: PSOA3					
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
05-11-19	90	62	22	13	<10
20-11-19	178	135	38	30	<10
TLV	200	100	60	80	80

CHINDA COLONY: PSOA4					
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
10-11-19	229	158	57	33	10
22-11-19	197	149	42	33	10
TLV	200	100	60	80	80

J. Shrivastava

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W65	DATE OF ISSUE	31.12.19
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	PENCH AREA	YEAR	2019
NAME OF PROJECT	NEW SETHIA OC	MONTH	NOVEMBER

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
22-11-19	7.5	16	28	<2
TLV	5.5 - 9.0	100	250	10

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NOISE LEVEL DATA

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

YEAR: 2019
MONTH: NOVEMBER

NEAR MANAGER OFFICE: PSON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	05-11-19	54.7	52.9
NOV 2019	19-11-19	52.6	46.2
TLV		75	70

COLONY- CHINDA: PSON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	05-11-19	49.2	47.2
NOV 2019	19-11-19	46.6	43.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

SHIVPURI OC

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



NOVEMBER 2019

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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:	PSO1
2	COLONY:	PSO2

Frequency of Monitoring:

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

WATER: Water quality is monitored on 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/NOVEMBER-19/A63	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	PENCH AREA	YEAR	2019
NAME OF PROJECT	SHIVPURI OC	MONTH	NOVEMBER

SITE OFFICE: PSOA1					
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
05-11-19	351	258	55	57	17
20-11-19	349	273	56	40	12
TLV	600	300	60	120	120

SUBSTATION-VISHNUPURI UG: PSOA2					
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
07-11-19	119	88	32	19	<10
23-11-19	312	244	62	34	10
TLV	600	300	60	120	120

COLONY GUEST HOUSE SHIVPURI: PSOA3					
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
06-11-19	239	165	59	35	10
20-11-19	170	129	36	28	<10
TLV	200	100	60	80	80

CHINDA VILLAGE: PSOA4					
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
05-11-19	90	62	22	13	<10
20-11-19	178	135	38	30	<10
TLV	200	100	60	80	80

J. Shan

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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W63	DATE OF ISSUE	31.12.19
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	PENCH AREA	YEAR	2019
NAME OF PROJECT	SHIVPURI OC	MONTH	NOVEMBER

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
20-11-19	7.6	18	28	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

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

YEAR: 2019
MONTH: NOVEMBER

NEAR MANAGER OFFICE: PSON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	14-11-19	55.6	51.8
NOV 2019	19-11-19	52.3	46.3
TLV		75	70

COLONY: PSON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	14-11-19	51.4	48.6
NOV 2019	19-11-19	46.7	43.5
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

THESGORA MATHANI -UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



NOVEMBER 2019

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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A66	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	PENCH AREA	YEAR	2019
NAME OF PROJECT	THESGORA MATHANI -UG	MONTH	NOVEMBER

MATHANI VILLAGE: PTUA1					
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
07-11-19	245	169	61	35	11
23-11-19	180	136	38	30	<10
TLV	200	100	60	80	80

SAM OFFICE: PTUA2					
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
07-11-19	275	201	44	34	10
23-11-19	407	318	69	40	12
TLV	600	300	60	120	120


MANAGER OFFICE- MATHANI: PTUA3					
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
07-11-19	33	24	9	<6	<10
23-11-19	169	132	37	29	<10
TLV	600	300	60	120	120

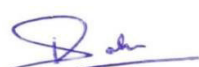
JHURE COLONY- FILTER PLANT PTUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/l)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-11-19	204	141	51	30	<10
20-11-19	167	127	35	28	<10
TLV	200	100	60	80	80

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Effluent water quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W66	DATE OF ISSUE	31.12.19
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	PENCH AREA	YEAR	2019
NAME OF PROJECT	THESGORA MATHANI -UG	MONTH	NOVEMBER

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
22-11-19	6.8	22	32	<2
TLV	5.5 - 9.0	100	250	10


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ENVIRONMENTAL MONITORING REPORT

URDHAN OC

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



NOVEMBER 2019

Environment Laboratory

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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 Gunorr river and Dhankasanallah. 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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A68	DATE OF ISSUE	31.12.19
NAME OF CUSTOMER	WCL, NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/17-K/520-522 DATED: 18.04.19		
TEST REQUIRED	IS-5182 [PM-10(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	PENCH AREA	YEAR	2019
NAME OF PROJECT	URDHAN OC	MONTH	NOVEMBER

URDHAN MANAGER OFFICE: PUOA1					
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
09-11-19	203	148	55	33	10
25-11-19	61	48	13	10	<10
TLV	600	300	60	120	120

URDHAN VILLAGE: PUOA2					
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
08-11-19	310	214	57	45	13
25-11-19	170	129	36	28	<10
TLV	200	100	60	80	80

NEHARIA VILLAGE: PUOA3					
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
08-11-19	118	81	29	17	<10
24-11-19	189	143	40	32	<10
TLV	200	100	60	80	80

BOKAI TOWNSHIP: PUOA4					
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
08-11-19	170	117	42	25	<10
24-11-19	236	179	50	39	12
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: URDHAN OC

YEAR: 2019
MONTH: NOVEMBER

NEAR MANGER OFFICE: PUON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	14-11-19	53.7	49.8
NOV 2019	19-11-19	46.3	42.9
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

VISHNUPURI -II UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



NOVEMBER 2019

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

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

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	SAM OFFICE:	PV2UA1
2	SUBSTATION:	PV2UA2
3	COLONY GUEST HOUSE SHIVPURI:	PV2UA3
4	CHINDA VILLAGE:	PV2UA4

Water Quality Monitoring location:

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

Noise Level Monitoring location :


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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A62	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	PENCH AREA	YEAR	2019
NAME OF PROJECT	VISHNUPURI -II UG	MONTH	NOVEMBER

SAM OFFICE: PV2UA1					
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
05-11-19	169	124	46	27	<10
20-11-19	173	135	38	30	9
TLV	600	300	60	120	120

SUBSTATION: PV2UA2					
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
07-11-19	119	88	32	19	<10
23-11-19	312	244	62	34	10
TLV	600	300	60	120	120

COLONY GUEST HOUSE SHIVPURI: PV2UA3					
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
06-11-19	189	138	42	26	11
20-11-19	170	129	36	28	<10
TLV	200	100	60	80	80

CHINDA VILLAGE: PV2UA4					
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
05-11-19	90	62	22	13	<10
20-11-19	178	135	38	30	<10
TLV	200	100	60	80	80

J. Shrivastava

SCIENTIFIC ASSISTANT

Deepanshu Sahu

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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TSET REPORT NO.	RIN/TR/NOVEMBER-19/W62	DATE OF ISSUE	31.12.19
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	PENCH AREA	YEAR	2019
NAME OF PROJECT	VISHNUPURI -II UG	MONTH	NOVEMBER

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
24-11-19	8.2	14	24	<2
TLV	5.5 - 9.0	100	250	10


 J. Shan
 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
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ENVIRONMENTAL MONITORING REPORT

VISHNUPURI -I UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 8000004



NOVEMBER 2019

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	CHINDA VILLAGE:	PV1UA4

Noise Level Monitoring location :

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

Frequency of Monitoring:

AIR: Frequency of monitoring is on Fortnightly basis

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report quality monitoring data	Air	 TC-7102
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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A61	DATE OF ISSUE	31.12.19
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(04:1999), NO _x (06:2006), SO ₂ (02:2001)], PM-2.5 & SPM*		
NAME OF AREA	PENCH AREA	YEAR	2019
NAME OF PROJECT	VISHNUPURI -I UG	MONTH	NOVEMBER

SAM OFFICE: PV1UA1					
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
05-11-19	169	124	46	27	<10
20-11-19	173	135	38	30	9
TLV	600	300	60	120	120

SUBSTATION: PV1UA2					
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
07-11-19	119	88	32	19	<10
23-11-19	312	244	62	34	10
TLV	600	300	60	120	120

COLONY GUEST HOUSE SHIVPURI: PV1UA3					
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
06-11-19	189	138	42	26	11
20-11-19	170	129	36	28	<10
TLV	200	100	60	80	80

CHINDA VILLAGE: PV1UA4					
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
05-11-19	90	62	22	13	<10
20-11-19	178	135	38	30	<10
TLV	200	100	60	80	80

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NOISE LEVEL DATA

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

YEAR: 2019
MONTH: NOVEMBER

FAN HOUSE UG-I: PV1UN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV2019	19-11-19	46.8	42.3
TLV		75	70

COLONY (VISHNUPURI -I): PV1UN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	14-11-19	46.2	45.1
NOV 2019	19-11-19	47.6	42.3
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

CWS TADALI

CWS TADALI

WESTERN COALFIELDS LTD.

JOB NO. 8000003



NOVEMBER 2019

Environment Laboratory

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INTRODUCTION

Central Workshop Tadali is located in Chandrapur Tahsil of Chandrapur district of Maharashtra State. It is administered by Central Workshop Tadali of Western Coalfields Limited. The drainage of the area is controlled by Wardha River. The climate of this area is tropical with The above-mentioned industries are also expected to contribute in increasing the pollution load of the area.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	SUB STATION:	CWSA1
2	NEAR FILTER PLANT:	CWSA2
3	ADMINISTRATIVE BUILDING:	CWSA3

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	ETP DISCHARGE:	CWSW1

Noise Level Monitoring location :


SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NEAR WORKSHOP:	CWSN1
2	COLONY:	CWSN2

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.


Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Air quality monitoring data	 TC-7102
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TSET REPORT NO.	RIN/TR/NOVEMBER-19/A41	DATE OF ISSUE	31.12.19
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(04:1999), NOx(06:2006), SO2(02:2001)], PM-2.5 & SPM*		
NAME OF AREA	CWS TADALI	YEAR	2019
NAME OF PROJECT	CWS TADALI	MONTH	NOVEMBER

SUB STATION: CWSA1					
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
14-11-19	352	230	42	27	12
30-11-19	501	286	52	31	13
TLV	600	300	60	120	120

NEAR FILTER PLANT: CWSA2					
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
14-11-19	296	224	57	50	15
30-11-19	365	267	65	39	12
TLV	600	300	60	120	120

ADMINISTRATIVE BUILDING: CWSA3					
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
14-11-19	355	269	51	31	12
30-11-19	248	185	42	28	11
TLV	600	300	60	120	120



SCIENTIFIC ASSISTANT



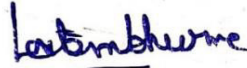
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TSET REPORT NO.	RIN/TR/OCTBER-19/W41	DATE OF ISSUE	31.12.19
NAME OF CUSTOMER	WCL, NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/1400-1414 DATED: 28.09.19		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, IS 3025(Part 58):2006 & IS 3025(Part 39):1991		
NAME OF AREA	CWS TADALI	YEAR	2019
NAME OF PROJECT	CWS TADALI	MONTH	NOVEMBER

ETP DISCHARGE: CWSW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
13-11-19	7.5	38	48	3.2
30-11-19	7.4	48	44	3.4
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

NAME OF AREA: CWS TADALI
NAME OF PROJECT: CWS TADALI

YEAR: 2019
MONTH: NOVEMBER

NEAR WORKSHOP: CWSN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	57.1	56.3
NOV 2019	24-11-19	57.6	56.8
TLV		75	70

COLONY: CWSN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
NOV 2019	08-11-19	42.9	41.5
NOV 2019	24-11-19	43.8	42.9
TLV		55	45