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ENVIRONMENTAL MONITORING REPORT

BALLARPUR OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY -2020

Environment Laboratory

CMPDI

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

AN ISO 9001:2015 COMPANY

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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.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY -20/A20	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	BALLARPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	BALLARPUR OC	SAMPLING PLAN : LQR 47	

MANAGER OFFICE- BALLARPUR UG: BBOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-05-20	132	43	32	14	<10
21-05-20	143	53	34	16	<10
TLV	600	300	60	120	120

SUBSTATION: BBOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-05-20	119	56	37	14	<10
23-05-20	143	64	39	17	10
TLV	600	300	60	120	120

PREMISES OF SUB AREA OFFICE: BBOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-05-20	148	79	48	21	11
23-05-20	139	72	43	16	11
TLV	600	300	60	120	120

FILTER PLANT COLONY: BBOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-05-20	138	56	32	14	<10
23-05-20	133	63	37	15	<10
TLV	200	100	60	80	80



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DEEPANSHU SAHU
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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY -20/W20	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	BALLARPUR AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	BALLARPUR OC	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: BBOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
07-05-20	7.46	34	32	<2
21-05-20	7.27	44	40	<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
07-05-20	7.38	38	36	<2
21-05-20	7.39	46	40	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MAY

CHP: BBON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	05-05-20	51.7	51.5
MAY 2020	19-05-20	52.7	52.6
TLV		75	70

COLONY (BALLARPUR UG): BBON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	05-05-20	43.4	42.6
MAY 2020	19-05-20	42.7	42.2
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

BALLARPUR UG

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



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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.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY -20/A19	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	BALLARPUR AREA	Sampling Method : LSOP 4	
NAME OF PROJECT	BALLARPUR UG	Sampling Plan : LQR 47	

MANAGER OFFICE- BALLARPUR UG: BBUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-05-20	132	43	32	14	<10
21-05-20	143	53	34	16	<10
TLV	600	300	60	120	120

SUBSTATION: BBUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-05-20	119	56	37	14	<10
23-05-20	143	64	39	17	10
TLV	600	300	60	120	120

PREMISES OF SUB AREA OFFICE: BBUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-05-20	148	79	48	21	11
23-05-20	139	72	43	16	11
TLV	600	300	60	120	120

FILTER PLANT COLONY: BBUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-05-20	138	56	32	14	<10
23-05-20	133	63	37	15	<10
TLV	200	100	60	80	80




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Test Report
Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY -20/W19	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.)WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	BALLARPUR AREA	Sampling Method	:LSOP 5
NAME OF PROJECT	BALLARPUR UG	Sampling Method	:LQR 47

MINE WATER DISCHARGE: BBUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
07-05-20	7.34	38	36	<2
21-05-20	7.34	34	32	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

NAME OF AREA: BALLARPUR AREA **YEAR: 2020**
NAME OF PROJECT: BALLARPUR UG **MONTH: MAY**

FAN HOUSE: BBUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	05-05-20	72.5	72.4
MAY 2020	19-05-20	72.6	72.6
TLV		75	70

COLONY: BBUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	05-05-20	43.4	42.6
MAY 2020	19-05-20	42.7	42.2
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

GOURI- I & II (A) OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020

Environment Laboratory

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Fugitive Dust Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data


TSET REPORT NO.	RIN/TR/MAY -20/A21	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	BALLARPUR AREA	Sampling Method : LSOP 4	
NAME OF PROJECT	GOURI- I& II (A) OC	Sampling Plan : LQR 47	


MANAGER OFFICE- GOURI - I O/C: BGOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-05-20	144	67	33	14	<10
25-05-20	137	63	37	13	<10
TLV	600	300	60	120	120

SAM OFFICE GOURI- SUB AREA: BGOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-05-20	143	68	37	19	11
25-05-20	152	64	33	14	<10
TLV	600	300	60	120	120

GOURI COLONY/ FILTER PLANT: BGOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-05-20	143	56	28	13	<10
19-05-20	139	63	39	11	<10
TLV	200	100	60	80	80

GOURI VILLAGE: BGOF2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-05-20	127	57	33	14	<10
24-05-20	118	64	37	12	<10
TLV	200	100	60	80	80


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Test Report


Effluent water quality monitoring data

TSET REPORT NO.	RIN/MAY -20/W21	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL, NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	BALLARPUR AREA	Sampling Method : LSOP 5	
NAME OF PROJECT	GOURI- I& II (A) OC	Sampling Plan : LQR 47	

MINE WATER DISCHARGE: BGOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
10-05-20	7.36	36	32	<2
19-05-20	7.48	40	32	<2
TLV	5.5 - 9.0	100	250	10

ETP DISCHARGE BGOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
10-05-20	7.38	42	36	<2
19-05-20	7.23	34	28	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

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

CHP: BGON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	11-05-20	63.7	63.6
MAY 2020	26-05-20	62.7	62.5
TLV		75	70

GOURI COLONY: BGON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	11-05-20	43.4	43.2
MAY 2020	26-05-20	43.6	43.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

GOURI DEEP OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020

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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY -20/A23	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	BALLARPUR AREA	Sampling Method :	LSOP 4
NAME OF PROJECT	GOURI DEEP OC	Sampling Plan :	LQR 47


MANAGER OFFICE: BGDO1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-05-20	138	62	26	11	<10
19-05-20	126	58	24	12	<10
TLV	600	300	60	120	120

MUTRA VILLAGE: BGDO2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-05-20	128	52	28	14	<10
20-05-20	118	62	22	13	<10
TLV	200	100	60	80	80

GOYEGAON VILLAGE: BGDO3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-05-20	137	58	24	13	10
19-05-20	108	48	26	10	<10
TLV	200	100	60	80	80

ANTARGAON VILLAGE: BGDO4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-05-20	144	49	32	19	11
19-05-20	128	62	23	11	<10
TLV	200	100	60	80	80


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Test Report


Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY -20/W23	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	BALLARPUR AREA	Sampling Method :	LSOP 5
NAME OF PROJECT	GOURI DEEP OC	Sampling Plan :	LQR47

MINE WATER DISCHARGE: BGDW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
11-05-20	7.12	34	32	<2
19-05-20	7.22	38	36	<2
TLV	5.5 - 9.0	100	250	10

ETP (WORKSHOP): BGDW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
11-05-20	7.44	26	28	<2
19-05-20	7.36	36	40	<2
TLV	5.5 - 9.0	100	250	10


SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

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

MANAGER OFFICE: BGDN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	11-05-20	53.4	52.7
MAY 2020	26-05-20	52.7	52.5
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

NEW DHOPTALA OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020

Environment Laboratory

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- DHUPTALA SUB AREA:	BNDOA1
2	MANAGER OFFICE- DHOPTALA OC:	BNDOA2
3	SASTI COLONY:	BNDOA3
4	SASTI VILLAGE:	BNDOA4

Fugitive Dust Monitoring locations:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY -20/A18	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	BALLARPUR AREA	Sampling Method :	LSOP 4
NAME OF PROJECT	NEW DHOPTALA OC	Sampling Plan :	LQR 47


SAM OFFICE- DHOPTALA SUB AREA: BNDOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-05-20	148	53	32	13	<10
21-05-20	144	57	28	10	<10
TLV	600	300	60	120	120

MANAGER OFFICE- DHOPTALA OC: BNDOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-05-20	132	51	34	14	<10
23-05-20	138	53	32	11	<10
TLV	600	300	60	120	120

SASTI COLONY: BNDOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-05-20	160	53	38	14	<10
24-05-20	148	62	32	12	<10
TLV	200	100	60	80	80

SASTI VILLAGE: BNDOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-05-20	144	47	34	15	<10
19-05-20	152	48	32	13	<10
TLV	200	100	60	80	80


SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

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

CHP: BNDN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	05-05-20	52.6	52.3
MAY 2020	19-05-20	52.7	52.4
TLV		75	70

SASTI COLONY: BNDN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	05-05-20	43.5	43.4
MAY 2020	26-05-20	43.4	43.2
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

PAUNI II OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020

Environment Laboratory

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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY -20/A24	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	BALLARPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	PAUNI II OC	SAMPLING PLAN : LQR 47	


MINE OFFICE: BP2OA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-05-20	158	57	33	13	<10
26-05-20	142	63	28	11	<10
TLV	600	300	60	120	120

SUBSTATION: BP2OA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-05-20	128	56	31	14	<10
25-05-20	139	61	33	12	<10
TLV	600	300	60	120	120

SAKHARI VILLAGE: BP2OA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-05-20	153	67	33	16	<10
25-05-20	148	63	38	13	<10
TLV	200	100	60	80	80

WORKSHOP: BP2OA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-05-20	134	63	34	15	<10
26-05-20	127	53	27	14	<10
TLV	600	300	60	120	120


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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY -20/W24	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	BALLARPUR AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	PAUNI II OC	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE BP2OW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
11-05-20	7.42	30	28	<2
26-05-20	7.38	42	40	<2
TLV	5.5 - 9.0	100	250	10


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ENVIRONMENTAL MONITORING REPORT

PAUNI O/C

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY -2020

Environment Laboratory

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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.

Test Report	Air
quality monitoring data	


TSET REPORT NO.	RIN/TR/MAY -20/A22	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	BALLARPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	PAUNI O/C	SAMPLING PLAN : LQR 47	

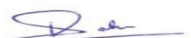
MANAGER OFFICE- PAUNI O/C: BPOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-05-20	147	57	34	13	<10
26-05-20	134	63	29	10	<10
TLV	600	300	60	120	120

WORKSHOP- PAUNI O/C: BPOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-05-20	134	63	34	15	<10
26-05-20	127	53	27	14	<10
TLV	600	300	60	120	120

PAUNI VILLAGE: BPOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-05-20	147	53	37	14	<10
26-05-20	134	48	32	13	<10
TLV	200	100	60	80	80

GOURI VILLAGE: BPOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-05-20	127	57	33	14	<10
24-05-20	118	64	37	12	<10
TLV	200	100	60	80	80


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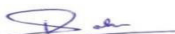
Test Report
Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY -20/W22	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	BALLARPUR AREA	SAMPLING METHOD :	LSOP 5
NAME OF PROJECT	PAUNI O/C	SAMPLING PLAN :	LQR 47

MINE WATER DISCHARGE: BPOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
15-05-20	7.36	38	36	<2
26-05-20	7.42	40	32	<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
15-05-20	7.14	42	40	<2
25-05-20	7.24	36	32	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

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

MANAGER OFFICE: BPON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	11-05-20	52.6	52.5
MAY 2020	26-05-20	53.5	52.6
TLV		75	70

GOURI COLONY: BPON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	11-05-20	43.4	43.2
MAY 2020	26-05-20	43.6	43.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

SASTI OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020

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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Fugitive Dust Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY -20/A16	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	BALLARPUR AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	SASTI OC	SAMPLING PLAN	LQR 47


SAM OFFICE-SASTI OC: BSOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-05-20	138	54	26	15	11
24-05-20	127	48	23	11	<10
TLV	600	300	60	120	120

AREA STORE: BSOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-05-20	148	63	33	14	<10
24-05-20	137	57	27	13	<10
TLV	600	300	60	120	120

GOURI COLONY FILTER PLANT: BSOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-05-20	143	56	28	13	<10
19-05-20	139	63	39	11	<10
TLV	200	100	60	80	80

SASTI VILLAGE: BSOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-05-20	144	47	34	15	<10
19-05-20	152	48	32	13	<10
TLV	200	100	60	80	80


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FUGITIVE DUST MONITORING DATA

RAILWAY SIDING:BSOF3			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
06-05-20	264	184	46



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Test Report


Effluent water quality monitoring data


TSET REPORT NO.	RIN/TR/MAY-20/W16	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	BALLARPUR AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	SASTI OC	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: BSOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
07-05-20	7.42	42	40	<2
23-05-20	7.47	46	40	<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
07-05-20	7.38	30	28	<2
23-05-20	7.53	38	36	<2
TLV	5.5 - 9.0	100	250	10

STP (DOMESTIC EFFLUENT) TREATED BSOW3		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS(in mg/l)	BOD(in mg/l)
DETECTION LIMIT	10	2
07-05-20	68	11.8
23-05-20	72	12
TLV	100	30


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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MAY

CHP: BSON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	11-05-20	64.6	64.5
MAY 2020	26-05-20	63.7	63.5
TLV		75	70

G. COLONY: BSON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	11-05-20	43.4	43.2
MAY 2020	26-05-20	43.6	43.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

SASTI UG

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020

Environment Laboratory

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REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A17	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	BALLARPUR AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	SASTI UG	SAMPLING PLAN	LQR 47


SAM OFFICE- DHUPTALA SUB AREA: BSUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-05-20	148	53	32	13	<10
21-05-20	144	57	28	10	<10
TLV	600	300	60	120	120

MANAGER OFFICE- DHOPTALA OC: BSUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-05-20	132	51	34	14	<10
23-05-20	138	53	32	11	<10
TLV	600	300	60	120	120

SASTI COLONY: BSUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-05-20	160	53	38	14	<10
24-05-20	148	62	32	12	<10
TLV	200	100	60	80	80

SASTI VILLAGE: BSUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-05-20	144	47	34	15	<10
19-05-20	152	48	32	13	<10
TLV	200	100	60	80	80


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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY -20/W17	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	BALLARPUR AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	SASTI UG	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: BSUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
07-05-20	7.49	34	32	<2
20-05-20	7.82	40	36	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

NAME OF AREA: BALLARPUR AREA **YEAR: 2020**
NAME OF PROJECT: SASTI UG **MONTH: MAY**

FAN HOUSE: BSUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	05-05-20	72.6	72.5
MAY 2020	26-05-20	72.6	72.8
TLV		75	70

SASTI COLONY: BSUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	05-05-20	43.5	43.4
MAY 2020	26-05-20	43.4	43.2
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

BHATADI OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY-2020

Environment Laboratory

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INTRODUCTION

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

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

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

Fugitive Dust Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A34	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WWCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD: LSOP 4	
NAME OF PROJECT	BHATADI OC	SAMPLING PLAN : LQR 47	

BHATADI SECURITY POST: CBOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-05-20	80	60	30	26	<10
24-05-20	72	54	24	18	<10
TLV	600	300	60	120	120

BHATADI MANAGER OFFICE: CBOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-05-20	154	87	32	22	<10
24-05-20	169	92	30	24	<10
TLV	600	300	60	120	120

BHATADI VILLAGE: CBOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-05-20	84	60	30	19	<10
24-05-20	92	66	36	32	<10
TLV	200	100	60	80	80

VADHOLI VILLAGE: CBOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-05-20	115	84	28	19	<10
24-05-20	126	98	32	22	<10
TLV	200	100	60	80	80



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FUGITIVE DUST MONITORING DATA

CHP/MGR LOADING POINT: CBOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM	PM10	PM _{2.5}
DETECTION LIMIT	5	5	2
12-05-20	162	88	39

WEIGHT BRIDGE: CBOF2			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM	PM10	PM _{2.5}
DETECTION LIMIT	5	5	2
12-05-20	138	70	26

WORKSHOP CBOF3			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM	PM10	PM _{2.5}
DETECTION LIMIT	5	5	2
12-05-20	148	86	40



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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY -20/W34	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WWCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD :	LSOP 5
NAME OF PROJECT	BHATADI OC	SAMPLING PLAN :	LQR 47

MINE WATER DISCHARGE: CBOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
10-05-20	7.83	26	32	<2
23-05-20	7.19	36	40	<2
TLV	5.5 - 9.0	100	250	10

ETP DISCHARGE: CBOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
10-05-20	7.29	28	44	<2
23-05-20	7.77	32	36	<2
TLV	5.5 - 9.0	100	250	10

STP (DOMESTIC EFFULENT) TREATED: CBOW3		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS(in mg/l)	BOD(in mg/l)
DETECTION LIMIT	10	2
11-05-20	32	10.2
23-05-20	38	12.6
TLV	100	30



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NOISE LEVEL DATA

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

NEAR CHP: CBON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	08-05-20	50.2	47.9
MAY 2020	21-05-20	49.5	47.4
TLV		75	70

COLONY: CBON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	08-05-20	46.6	43.3
MAY 2020	21-05-20	46.8	43.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

CRC UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020



Environment Laboratory

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REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY -20/A32	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(Env), WCL(HQ) NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	CRC UG	SAMPLING PLAN : LQR 47	

MANAGER'S OFFICE MAHAKALI UG: CCRUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-05-20	76	55	26	14	<10
23-05-20	96	64	29	15	<10
TLV	600	300	60	120	120

CRC SUBSTATION/ FILTER PLANT: CCRUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-05-20	100	76	28	19	<10
23-05-20	92	72	30	22	<10
TLV	600	300	60	120	120

JATWARA MILK SCHEME: CCRUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-05-20	94	55	24	12	<10
23-05-20	82	60	26	13	<10
TLV	600	300	60	120	120

COLONY: CCRUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-05-20	110	72	24	16	<10
23-05-20	120	79	30	14	<10
TLV	200	100	60	80	80



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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY -20/W32	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(Env.), WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	CRC UG	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE : CCRUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
09-05-20	7.24	24	36	<2
22-05-20	7.44	16	32	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MAY

CHP: CCRUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	08-05-20	52.2	51.1
MAY 2020	21-05-20	52.5	51.4
TLV		75	70

COLONY: CCRUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	08-05-20	46.6	43.2
MAY 2020	21-05-20	45.8	42.7
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

DRC UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020

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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A33	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	DRC UG	SAMPLING PLAN : LQR 47	

PIT OFFICE-DRC- III UG: CDRUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-05-20	93	46	28	16	<10
22-05-20	82	42	24	15	<10
TLV	600	300	60	120	120

NEHRU NAGAR/ SUBSTATION: CDRUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-05-20	110	72	24	16	<10
22-05-20	184	89	36	32	12
TLV	600	300	60	120	120

DRC- V COLONY: CDRUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-05-20	76	36	24	12	<10
22-05-20	92	44	30	19	<10
TLV	200	100	60	80	80

PIT OFFICE DRC-IV: CDRUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-05-20	155	85	36	19	<10
22-05-20	169	90	32	22	<10
TLV	200	100	60	80	80



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Test Report
Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W33	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ),NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	DRC UG	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE : CDRUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
08-05-20	7.47	30	32	<2
20-05-20	7.51	28	44	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

NAME OF AREA: CHANDRAPUR AREA YEAR: 2020
NAME OF PROJECT: DRC UG MONTH: MAY

PIT OFFICE DRC- III UG: CDRUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	08-05-20	68.9	67.3
MAY 2020	21-05-20	68.8	67.4
TLV		75	70

DURGAPUR COLONY: CDRUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	05-05-20	46.3	44.2
MAY 2020	18-05-20	46.6	44.3
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

DURGAPUR OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020

Environment Laboratory

CMPDI

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

AN ISO 9001:2015 COMPANY

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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.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A25	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM (ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD :	LSOP 4
NAME OF PROJECT	DURGAPUR OC	SAMPLING PLAN :	LQR 47

MANAGER'S OFFICE- SECTOR V: CDOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-05-20	132	86	30	15	<10
19-05-20	136	89	32	17	<10
TLV	600	300	60	120	120


DURGAPUR VILLAGE: CDOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-05-20	94	63	26	14	<10
19-05-20	84	60	24	12	<10
TLV	200	100	60	80	80

MANAGER OFFICE Q-IV : CDOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-05-20	89	36	14	10	<10
25-05-20	72	32	12	8	<10
TLV	600	300	60	120	120

FILTER PLANT DOC/POC COLONY: CDOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-05-20	170	90	34	19	<10
19-05-20	174	96	36	30	11
TLV	200	100	60	80	80



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FUGITIVE DUST MONITORING DATA

CHP: CDOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM	PM₁₀	PM_{2.5}
DETECTION LIMIT	5	5	2
05-05-20	126	64	24

CHECK POST/ AYYAPA MANDIR CDOF2			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM	PM₁₀	PM_{2.5}
DETECTION LIMIT	5	5	2
05-05-20	132	67	28



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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W25	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	DURGAPUR OC	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE Q-II: CDOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
04-05-20	6.92	24	32	<2
19-05-20	7.1	22	28	<2
TLV	5.5 - 9.0	100	250	10

MINE WATER DISCHARGE Q-IV: CDOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
04-05-20	7.15	22	36	<2
19-05-20	7.09	18	24	<2
TLV	5.5 - 9.0	100	250	10

WETP DISCHARGE: CDOW3				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
04-05-20	7.4	30	24	<2
19-05-20	7.32	32	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
04-05-20	20	11.4
19-05-20	30	12
TLV	100	30



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MAY

CHP: CDON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	05-05-20	52.1	50.2
MAY 2020	18-05-20	52.3	50.1
TLV		75	70

DURGAPUR COLONY: CDON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	05-05-20	46.3	44.2
MAY 2020	18-05-20	46.6	44.3
TLV		50	45

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ENVIRONMENTAL MONITORING REPORT

HLP OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY-2020

Environment Laboratory

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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.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A28	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	HLP OC	SAMPLING PLAN : LQR 47	


MANAGER OFFICE(NANDGAON UG): CHOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-05-20	136	84	32	14	<10
21-05-20	108	67	27	12	<10
TLV	600	300	60	120	120

MANAGER OFFICE(HLP OC): CHOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-05-20	120	84	29	18	<10
21-05-20	154	92	36	30	12
TLV	600	300	60	120	120

MANA VILLAGE : CHOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-05-20	82	44	30	17	<10
20-05-20	84	50	33	19	<10
TLV	200	100	60	80	80

COLONY (NANDGAON): CHOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-05-20	96	64	30	18	<10
21-05-20	88	54	34	16	<10
TLV	200	100	60	80	80


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FUGITIVE DUST MONITORING DATA

MAIN CHP: CHOA1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM	PM10	PM _{2.5}
DETECTION LIMIT	5	5	2
08-05-20	139	72	32

RAILWAY SIDING: CHOA3			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM	PM10	PM _{2.5}
DETECTION LIMIT	5	5	2
08-05-20	120	65	28

WEIGHT BRIDGE: CHOA2			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM	PM10	PM _{2.5}
DETECTION LIMIT	5	5	2
08-05-20	140	77	37



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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W28	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	HLP OC	SAMPLING PLAN : LQR 47	

MINE DISCHARGE : CHOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
06-05-20	7.28	28	32	<2
20-05-20	7.31	24	40	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

NAME OF AREA: CHANDRAPUR AREA YEAR: 2020
NAME OF PROJECT: HLP OC MONTH: MAY

CHP: CHON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	05-05-20	51.9	48.6
MAY 2020	18-05-20	50.9	48.6
TLV		75	70

COLONY: CHON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	05-05-20	46.3	42.2
MAY 2020	18-05-20	46.6	42.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

HLP I & III UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020



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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A27	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	HLP I& III UG	SAMPLING PLAN : LQR 47	

SUBSTATION HLC I UG: CHUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-05-20	100	61	27	13	<10
19-05-20	92	55	24	12	<10
TLV	600	300	60	120	120

PIT OFFICE - HLC-I INCLINE: CHUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-05-20	105	72	30	21	<10
20-05-20	110	76	32	24	<10
TLV	600	300	60	120	120

HLC-III COLONY : CHUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-05-20	96	72	36	22	<10
21-05-20	74	60	24	12	<10
TLV	200	100	60	80	80

RAJIV GANDHI ENGG. COLLEGE: CHUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-05-20	92	72	25	19	<10
22-05-20	136	94	36	30	10
TLV	200	100	60	80	80



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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W27	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	HLP I & III UG	SAMPLING PLAN : LQR 47	

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
08-05-20	7.32	24	36	<2
20-05-20	7.3	20	32	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

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

FAN HOUSE - I UG: CHUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	05-05-20	69.9	67.8
MAY 2020	18-05-20	68.9	66.8
TLV		75	70

COLONY: CHUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	05-05-20	45.4	43.2
MAY 2020	18-05-20	45.8	43.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

MAHAKALI UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020



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.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-19/A31	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(Env.),WCL(HQ) NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING PLAN	LQR 47
NAME OF PROJECT	MAHAKALI UG	SAMPLING METHOD	LSOP 4

MANAGER'S OFFICE MAHAKALI UG: CMUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-05-20	76	55	26	14	<10
23-05-20	96	64	29	15	<10
TLV	600	300	60	120	120

CRC SUBSTATION/ FILTER PLANT: CMUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-05-20	100	76	28	19	<10
23-05-20	92	72	30	22	<10
TLV	600	300	60	120	120

JATWARA MILK SCHEME: CMUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-05-20	94	55	24	12	<10
23-05-20	82	60	26	13	<10
TLV	600	300	60	120	120

COLONY: CMUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-05-20	110	72	24	16	<10
23-05-20	120	79	30	14	<10
TLV	200	100	60	80	80

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Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W31	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(Env.),WCL(HQ) NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING PLAN	LQR 47
NAME OF PROJECT	MAHAKALI UG	SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE : CMUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
09-05-20	7.7	30	40	<2
22-05-20	7.39	32	36	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MAY

FAN HOUSE: CMUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	08-05-20	70.3	68.2
MAY 2020	21-05-20	69.5	67.2
TLV		75	70

COLONY: CMUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	08-05-20	45.2	43.6
MAY 2020	21-05-20	45.9	43.5
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

MANA UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020

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.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A30	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD :	LSOP 4
NAME OF PROJECT	MANA UG	SAMPLING PLAN :	LQR 47

MANAGER'S OFFICE: CMUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-05-20	75	45	30	16	<10
20-05-20	84	70	28	24	<10
TLV	600	300	60	120	120

SUBSTATION MANA INCLINE: CMUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-05-20	70	42	20	13	<10
20-05-20	80	67	27	20	<10
TLV	600	300	60	120	120

COLONY (NANDGAON): CMUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-05-20	96	64	30	18	<10
21-05-20	88	54	34	16	<10
TLV	200	100	60	80	80

MANA VILLAGE: CMUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-05-20	82	44	30	17	<10
20-05-20	84	50	33	19	<10
TLV	200	100	60	80	80



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Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W30	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	MANA UG	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: CMUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
05-05-20	7.56	24	32	<2
10-05-20	7.32	18	36	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

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

FAN HOUSE: CMUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	05-05-20	69.9	68.8
MAY 2020	18-05-20	68.9	67.8
TLV		75	70

COLONY (HLP OC): CMUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	05-05-20	46.3	42.2
MAY 2020	18-05-20	46.6	42.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

NANDGAON UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020

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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A29	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	NANDGAON UG	SAMPLING PLAN : LQR 47	

MANAGER OFFICE NANDGAON UG: CNUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-05-20	136	84	32	14	<10
21-05-20	108	67	27	12	<10
TLV	600	300	60	120	120

SUBSTATION MANA INCLINE: CNUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-05-20	70	42	20	13	<10
20-05-20	80	67	27	20	<10
TLV	600	300	60	120	120

MANA VILLAGE : CNUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-05-20	82	44	30	17	<10
20-05-20	84	50	33	19	<10
TLV	200	100	60	80	80

COLONY (NANDGAON): CNUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-05-20	96	64	30	18	<10
21-05-20	88	54	34	16	<10
TLV	200	100	60	80	80

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Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W29	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	NANDGAON UG	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: CNUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
06-05-20	7.1	20	36	<2
19-05-20	7.06	28	32	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

NAME OF AREA: CHANDRAPUR AREA YEAR: 2020
NAME OF PROJECT: NANDGAON UG MONTH: MAY

FAN HOUSE: CNUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	05-05-20	70.1	68.2
MAY 2020	18-05-20	70.5	68.4
TLV		75	70

COLONY HLP OC: CNUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	05-05-20	46.3	42.2
MAY 2020	18-05-20	46.6	42.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

PADMAPUR OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020

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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	WARWAT VILLAGE:	CPOA2
3	KITADI VILLAGE :	CPOA3
4	VICHODA RAYATWARI VILLAGE:	CPOA4

Fugitive Dust Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A26	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD :	LSOP 4
NAME OF PROJECT	PADMAPUR OC	SAMPLING PLAN :	LQR 47

MANAGER'S OFFICE-Q-IV: CPOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-05-20	89	36	14	10	<10
25-05-20	72	32	12	8	<10
TLV	600	300	60	120	120

WARWAT VILLAGE: CPOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-05-20	100	49	32	22	<10
25-05-20	94	44	24	20	<10
TLV	200	100	60	80	80

KITADI VILLAGE : CPOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-05-20	81	44	16	10	<10
25-05-20	89	56	20	13	<10
TLV	200	100	60	80	80

VICHODA RAYATWARI VILLAGE: CPOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-05-20	120	72	34	26	<10
25-05-20	105	64	28	22	<10
TLV	200	100	60	80	80



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FUGITIVE DUST MONITORING DATA

CHP/MGR LOADING POINT: CPOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
13-05-20	144	75	30

WEIGHT BRIDGE: CPOF2			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
13-05-20	156	80	36



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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W26	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	CHANDRAPUR AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	PADMAPUR OC	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE SECTOR III:				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
11-05-20	6.72	28	36	<2
24-05-20	6.93	22	40	<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
13-05-20	7.32	30	32	<2
24-05-20	7.09	26	36	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

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

CHP: CPON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	08-05-20	51.4	49.2
MAY 2020	21-05-20	51.6	49.1
TLV		75	70

DURGAPUR COLONY: CPON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	05-05-20	46.3	44.2
MAY 2020	21-05-20	46.6	44.3
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

JUNA KUNADA OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020

Environment Laboratory

CMPDI

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

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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.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A46	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	MAJRI AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	JUNA KUNADA OC	SAMPLING PLAN	LQR 47

PIT OFFICE: MJOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-05-20	94	62	22	10	<10
30-05-20	86	64	20	12	<10
TLV	600	300	60	120	120

SAM OFFICE CHARGAON: MJOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-05-20	64	40	28	16	<10
29-05-20	74	48	24	10	<10
TLV	600	300	60	120	120

EKTA NAGAR COLONY: MJOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-05-20	90	56	36	18	10
29-05-20	80	48	26	12	<10
TLV	200	100	60	80	80

CHARGAON INTAKE WELL: MJOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-05-20	72	44	22	14	<10
29-05-20	68	40	20	12	<10
TLV	200	100	60	80	80



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NOISE LEVEL DATA

NAME OF AREA: MAJRI AREA **YEAR: 2020**
NAME OF PROJECT: JUNA KUNADA OC **MONTH: MAY**

MANAGER OFFICE: MJON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	14-05-20	45.3	44.2
MAY 2020	19-05-20	44.7	43.4
TLV		75	70

EKTA NAGAR COLONY: MJON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	14-05-20	43.2	42.1
MAY 2020	19-05-20	43.6	42
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

NEW MAJRI-II (A)OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020

Environment Laboratory

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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Fugitive Dust Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A42	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	MAJRI AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	NEW MAJRI-II (A)OC	SAMPLING PLAN : LQR 47	

NMOC SUBSTATION: MMOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-05-20	70	43	24	14	<10
17-05-20	86	48	28	20	<10
TLV	600	300	60	120	120

PATALA MAGAZINE: MMOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-05-20	86	58	24	10	<10
17-05-20	76	34	20	12	<10
TLV	600	300	60	120	120

PRIMARY HEALTH CENTRE,MAJRI BASTI: MMOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-05-20	58	36	22	10	<10
17-05-20	74	40	18	14	<10
TLV	200	100	60	80	80

KUCHANA VILLAGE: MMOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-05-20	80	48	16	12	<10
08-05-20	84	56	20	11	<10
15-05-20	90	54	18	10	<10
16-05-20	80	52	20	12	<10
17-05-20	62	42	20	12	<10
18-05-20	78	44	22	16	<10
29-05-20	74	46	24	14	<10
30-05-20	68	42	18	10	<10
TLV	200	100	60	80	80



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Test Report
Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W42	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.)WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	MAJRI AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	NEW MAJRI-II (A)OC	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: MMOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
05-05-20	6.1	40	44	<2
16-05-20	6.4	60	36	<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
05-05-20	7.04	34	36	<2
16-05-20	7.22	40	32	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MAY

FIELD MAIN.SHED: MMON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	14-05-20	54.2	53.7
MAY 2020	19-05-20	54.2	53
TLV		75	70

KUCHNA COLONY: MMON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	14-05-20	44.1	43.6
MAY 2020	19-05-20	44.6	43.2
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

NEW MAJRI-UG TO OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020

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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Fugitive Dust Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A43	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	MAJRI AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	NEW MAJRI-UG TO OC	SAMPLING PLAN : LQR 47	

PATALA MAGAZINE: MMUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-05-20	86	58	24	10	<10
17-05-20	76	34	20	12	<10
TLV	600	300	60	120	120

MANAGER OFFICE UG TO OC: MMUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-05-20	64	42	22	14	<10
18-05-20	62	40	20	12	<10
TLV	600	300	60	120	120

CONTRACTOR CAMP:MMUA5					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-05-20	74	56	30	16	<10
18-05-20	60	34	18	14	<10
TLV	600	300	60	120	120

SAWARLA VILLAGE:MMUA6					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-05-20	52	30	24	12	<10
18-05-20	74	46	24	10	<10
TLV	600	300	60	120	120



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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W43	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	MAJRI AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	NEW MAJRI-UG TO OC	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: MMUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
05-05-20	6.83	26	28	<2
16-05-20	7.16	22	24	<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
07-05-20	6.96	60	52	<2
17-05-20	7.22	56	60	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

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

FAN HOUSE - MAJRI: MMUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	14-05-20	55.1	53.5
MAY 2020	19-05-20	54.6	53.2
TLV		75	70

COLONY NAGLON COLONY: MMUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	14-05-20	43.4	42.1
MAY 2020	19-05-20	44	43.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

TELWASA OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020

Environment Laboratory

CMPDI

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

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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.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A43	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	MAJRI AREA	SAMPLING METHOD :	LSOP 4
NAME OF PROJECT	TELWASA OC	SAMPLING PLAN :	LQR 47

TELWASA SECURITY OFFICE: MTOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-05-20	80	54	24	18	<10
30-05-20	74	48	26	14	10
TLV	600	300	60	120	120

SAM OFFICE: MTOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-05-20	92	56	32	16	<10
30-05-20	82	50	28	10	<10
TLV	600	300	60	120	120

CHARGAON VILLAGE: MTOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT		5	2	6	10
09-05-20	76	44	30	14	10
20-05-20	74	46	24	12	<10
TLV	200	100	60	80	80

EKTA NAGAR COLONY: MTOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-05-20	90	56	36	18	10
29-05-20	80	48	26	12	<10
TLV	200	100	60	80	80



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Test Report
Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W43	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	MAJRI AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	TELWASA OC	SAMPLING PLAN : LQR 47	

DETP DISCHARGE MTOW1		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS (in mg/l)	BOD (in mg/l)
DETECTION LIMIT	10	2
15-05-20	48	12
29-05-20	34	10
TLV	100	30



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MAY

NEAR PIT OFFICE: MTON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	14-05-20	51.3	49.2
MAY 2020	19-05-20	50.6	49.7
TLV		75	70

EKTA NAGAR COLONY: MTON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	14-05-20	43.2	42.1
MAY 2020	19-05-20	43.6	42
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

YEKONA I& II OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020



Environment Laboratory

CMPDI

**REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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	ASHTI VILLAGE:	MYOA3
4	DANDGAON VILLAGE	MYOA4
5	HIWARA MAJARA:	MYOA5

Water Quality Monitoring location:

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

Fugitive dust monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A48	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO _x : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	MAJRI AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	YEKONA I& II OC	SAMPLING PLAN	LQR 47

PIT OFFICE: MYOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-05-20	190	98	24	14	12
20-05-20	180	82	20	12	<10
TLV	600	300	60	120	120

PENZUNI VILLAGE : MYOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-05-20	112	72	28	10	<10
20-05-20	88	54	22	8	<10
TLV	200	100	60	80	80

ASHTI VILLAGE: MYOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-05-20	94	56	32	16	<10
20-05-20	82	44	28	14	10
TLV	200	100	60	80	80

DANDGAON VILLAGE MYOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-05-20	90	58	26	12	10
21-05-20	74	40	22	10	<10
TLV	200	100	60	80	80

HIWARA MAJARA: MYOA5					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-05-20	96	54	20	14	<10
21-05-20	92	50	26	12	<10
TLV	200	100	60	80	80



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Test Report
Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W48	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	MAJRI AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	YEKONA I& II OC	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: MYOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
08-05-20	7.38	30	32	<2
19-05-20	7.5	34	28	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

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

PIT OFFICE: MYON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	14-05-20	55.2	54.3
MAY 2020	19-05-20	56.4	55.2
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

ADASA UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY-2020

Environment Laboratory

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. The air pollution due to working of the UG mine is insignificant.

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A5	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	ADASA UG	SAMPLING PLAN	LQR 47

PROJECT MANAGER OFFICE: NAUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-05-20	93	44	32	11	11
28-05-20	82	43	34	21	10
TLV	600	300	60	120	120

AT PATHAKHEDI GP OFFICE : NAUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-05-20	71	53	15	8	<10
28-05-20	77	55	17	11	<10
TLV	200	100	60	80	80

COLONY WATER FILTER PLANT : NAUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-05-20	64	47	13	8	<10
29-05-20	66	46	12	<6	<10
TLV	200	100	60	80	80

KOTODI VILLAGE : NAUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
28-05-20	72	57	17	11	<10
TLV	200	100	60	80	80

J. Shan

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MAY

FAN HOUSE: NAUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	14-05-20	69.6	68.7
MAY 2020	19-05-20	69.5	68.7
TLV		75	70

MANAGER OFFICE: NAUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	14-05-20	56.2	55.4
MAY 2020	19-05-20	56.2	55.4
TLV		75	70

COLONY (SAONER): NAUN3			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	14-05-20	41.7	41.3
MAY 2020	19-05-20	42.4	41.5
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

BHANEGAON OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020

Environment Laboratory

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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 MANAGER 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.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A9	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	BHANEGAON OC	SAMPLING PLAN	LQR 47

NEAR MANAGER OFFICE: NBOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-05-20	178	132	36	23	11
20-05-20	184	136	39	25	13
TLV	600	300	60	120	120

BINA VILLAGE: NBOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-05-20	72	45	17	10	<10
20-05-20	78	53	19	12	<10
TLV	200	100	60	80	80

DORLI VILLAGE : NBOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-05-20	104	78	23	15	<10
20-05-20	84	57	27	17	<10
TLV	200	100	60	80	80

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Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W9	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	BHANEGAON OC	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: NBOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
04-05-20	7.3	28	36	<2
19-05-20	7.14	26	36	<2
TLV	5.5 - 9.0	100	250	10

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MAY

CONTRACTOR CAMP: NBON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	05-05-20	55.3	54.6
MAY 2020	21-05-20	55.2	54.4
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

GONDEGAON OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020

Environment Laboratory

CMPDI

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

AN ISO 9001:2015 COMPANY

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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	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.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A6	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	GONDEGAON OC	SAMPLING PLAN : LQR 47	

NEAR SUBSTATION: NGOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-05-20	182	138	40	26	14
21-05-20	176	126	36	23	12
TLV	600	300	60	120	120

GONDEGAON VILLAGE SCHOOL: NGOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-05-20	59	44	15	9	<10
21-05-20	54	42	13	7	<10
TLV	200	100	60	80	80

COLONY/GUEST HOUSE: NGOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-05-20	63	47	17	11	<10
21-05-20	65	45	15	10	<10
TLV	200	100	60	80	80

GHATRONHA VILLAGE: NGOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-05-20	72	40	16	10	<10
21-05-20	67	49	14	9	<10
TLV	200	100	60	80	80

J. Shan
SCIENTIFIC ASSISTANT

Deepanshu
DEEPANSHU SAHU
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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W6	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	GONDEGAON OC	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: NGOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
14-05-20	7.24	18	28	<2
20-05-20	7.06	18	28	<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
14-05-20	7.09	12	30	<2
20-05-20	7.03	14	24	<2
TLV	5.5 - 9.0	100	250	10

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NOISE LEVEL DATA

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

CHP: NGON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	05-05-20	67.3	66.6
MAY 2020	21-05-20	67.3	66.5
TLV		75	70

COLONY: NGON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	05-05-20	42.5	41.7
MAY 2020	21-05-20	42.4	41.6
TLV		55	45

GHATROHNA VILLAGE NGON3			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	05-05-20	42.4	41.6
MAY 2020	21-05-20	42.6	41.7
TLV		55	45

JUNI KAMPTEE VILLAGE: NGON4			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	05-05-20	42.4	41.6
MAY 2020	21-05-20	42.4	41.6
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

INDER UG TO OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020

Environment Laboratory

CMPDI

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

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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.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A8	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	INDER UG TO OC	SAMPLING PLAN : LQR 47	

NEAR PIT NO.6 / MANAGER OFFICE: NIOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-05-20	178	135	39	25	14
29-05-20	174	132	35	23	12
TLV	600	300	60	120	120

CMPDI TEKADI STORE: NIOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-05-20	127	87	45	29	15
29-05-20	122	83	43	25	13
TLV	600	300	60	120	120

COLONY WATER TREATMENT PLANT: NIOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-05-20	105	78	23	15	<10
22-05-20	96	74	22	13	<10
TLV	200	100	60	80	80

G.P. OFFICE KANDRI VILLAGE: NIOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-05-20	86	64	19	12	<10
22-05-20	76	56	17	11	<10
TLV	200	100	60	80	80

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FUGITIVE DUST MONITORING DATA

NEAR COAL STOCK- YARD: NIOF2			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM	PM10	PM _{2.5}
DETECTION LIMIT	5	5	2
06-05-20	232	172	55

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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W8	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	INDER UG TO OC	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: NIOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
05-05-20	7.3	18	28	<2
28-05-20	8.27	26	36	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MAY

R.C. OFFICE: NION1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	05-05-20	56.2	55.4
MAY 2020	21-05-20	54.6	53.5
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

KAMPTEE DEEP OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020

Environment Laboratory

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A7	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	KAMPTEE DEEP OC	SAMPLING PLAN : LQR 47	

SUBSTATION KAMPTEE : NKCA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-05-20	111	63	30	19	<10
22-05-20	128	74	36	23	18
TLV	600	300	60	120	120

COLONY WATER TREATMENT PALNT: NKCA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-05-20	105	78	23	15	<10
22-05-20	96	74	22	13	<10
TLV	200	100	60	80	80

G.P. OFFICE KANDRI VILLAGE: NKCA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-05-20	86	64	19	12	<10
22-05-20	76	56	17	11	<10
TLV	200	100	60	80	80

J. Shan

SCIENTIFIC ASSISTANT



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FUGITIVE DUST MONITORING DATA

RLY. SIDING NKCF2			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
29-05-20	272	186	48



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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W7	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	KAMPTEE DEEP OC	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: NKCW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
13-05-20	7.37	14	24	<2
21-05-20	7.24	22	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: KAMPTEE DEEP OC

YEAR: 2020
MONTH: MAY

CHP: NKC1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	05-05-20	66.4	65.7
MAY 2020	21-05-20	66.6	65.7
TLV		75	70

COLONY: NKC2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	05-05-20	41.6	40.7
MAY 2020	21-05-20	41.4	40.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

PATANSAONGI UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020



Environment Laboratory

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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.

Test Report Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A3	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.05.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	PATANSAONGI UG	SAMPLING PLAN : LQR 47	


COLLIERY MANGER OFFICE: NPTUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-05-20	107	52	28	18	12
27-05-20	114	49	25	16	10
TLV	600	300	60	120	120

SADBHAVAN NAGAR (FILTER PLANT): NPTUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-05-20	49	34	15	10	<10
27-05-20	65	44	16	11	<10
TLV	200	100	60	80	80

NEAR LCH QR.: NPTUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-05-20	51	33	14	9	<10
27-05-20	57	48	16	11	<10
TLV	200	100	60	80	80

SAVARMENDHA VILLAGE.: NPTUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-05-20	57	42	13	9	<10
28-05-20	67	40	15	10	<10
TLV	200	100	60	80	80

J. Shan
SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W3	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.05.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	PATANSAONGI UG	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: NPTUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
06-05-20	7.48	24	32	<2
26-05-20	7.04	28	36	<2
TLV	5.5 - 9.0	100	250	10


 J. Shany
 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

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

FAN HOUSE: NPTUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	14-05-20	66.6	65.7
MAY 2020	19-05-20	66.2	65.5
TLV		75	70

COLONY: NPTUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	14-05-20	42.6	41.7
MAY 2020	19-05-20	42.2	41.6
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

PIPLA UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020

Environment Laboratory

CMPDI

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

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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.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A2	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/346-348 DATED: 13.04.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	PIPLA UG	SAMPLING PLAN : LQR 47	


NEAR MAGZINE / MANAGER OFFICE: NPUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-05-20	114	56	33	24	12
27-05-20	110	43	28	18	11
TLV	600	300	60	120	120

IN ZONE- 4: NPUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-05-20	84	45	32	21	11
26-05-20	104	48	28	18	<10
TLV	600	300	60	120	120

FILTER PLANT: NPUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-05-20	75	57	17	11	<10
26-05-20	74	54	19	12	<10
TLV	200	100	60	80	80

SHIV MANDIR: NPUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-05-20	64	32	14	10	<10
26-05-20	78	35	17	11	<10
TLV	200	100	60	80	80

J. Shan
SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MAY

FAN HOUSE: NPUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	14-05-20	66.4	65.6
MAY 2020	19-05-20	65.2	65.3
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

SAONER UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020

Environment Laboratory

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REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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2	AIR QUALITY MONITORING DATA	4 to 5
3	WATER QUALITY MONITORING DATA	6
4	NOISE LEVEL DATA	7

INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	C.M. OFFICE - SAONER - I UG :	NSNUA1
2	C.M. OFFICE- SAONER- II UG :	NSNUA2
3	COLONY WATER FILTER PLANT:	NSNUA3
4	KOTODI VILLAGE :	NSNUA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP:	NSNUF1
2	RLY. SIDING:	NSNUF2

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE I UG:	NSNUW1
2	MINE WATER DISCHARGE II UG:	NSNUW2
3	MINE WATER DISCHARGE III UG:	NSNUW3

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE I UG:	NSNUN1
2	FAN HOUSE II UG:	NSNUN2
3	FAN HOUSE III UG:	NSNUN3
4	COLONY:	NSNUN4

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A4	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	SAONER UG	SAMPLING PLAN : LQR 47	

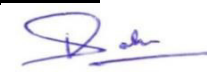
C.M. OFFICE - SAONER - I UG : NSNUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-05-20	76	40	33	18	<10
29-05-20	85	43	35	20	10
TLV	600	300	60	120	120

C.M. OFFICE- SAONER- II UG : NSNUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-05-20	82	43	31	19	<10
29-05-20	75	42	30	18	<10
TLV	600	300	60	120	120

COLONY WATER FILTER PLANT: NSNUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-05-20	64	47	13	8	<10
29-05-20	66	46	12	<6	<10
TLV	200	100	60	80	80

KOTODI VILLAGE : NSNUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
28-05-20	72	57	17	11	<10
TLV	200	100	60	80	80


SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
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FUGITIVE DUST MONITORING DATA

RLY. SIDING: NSNUF2			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
29-05-20	234	170	52



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Test Report

Effluent water quality monitoring data

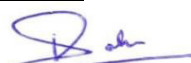
TSET REPORT NO.	RIN/TR/MAY-20/W4	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	SAONER UG	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE I UG: NSNUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
06-05-20	7.23	14	24	<2
28-05-20	7.2	22	32	<2
TLV	5.5 - 9.0	100	250	10

MINE WATER DISCHARGE II UG: NSNUW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
06-05-20	7.3	26	36	<2
28-05-20	7.16	18	28	<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
06-05-20	7.28	16	28	<2
28-05-20	7.25	26	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: SAONER UG

YEAR: 2020
MONTH: MAY

FAN HOUSE I UG: NSNUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	14-05-20	69.2	68.6
MAY 2020	19-05-20	69.6	68.7
TLV		75	70

FAN HOUSE II UG: NSNUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	14-05-20	69.5	69.7
MAY 2020	19-05-20	69.2	68.6
TLV		75	70

FAN HOUSE III UG: NSNUN3			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	14-05-20	69.6	68.6
MAY 2020	19-05-20	68.6	66.7
TLV		75	70

COLONY: NSNUN4			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	14-05-20	41.2	40.3
MAY 2020	19-05-20	42.4	41.5
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

SILEWARA UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020

Environment Laboratory

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	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.

Test Report Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A1	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	SILEWARA UG	SAMPLING PLAN : LQR 47	

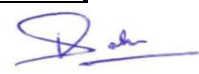
WATER FILTER FLANT: NSUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-05-20	97	43	30	19	10
26-05-20	112	49	29	22	<10
TLV	600	300	60	120	120

V.T.C. SILEWARA: NSUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-05-20	114	45	29	20	11
19-05-20	125	47	31	19	10
TLV	600	300	60	120	120

MANDIR NEAR KANHAN RIVER: NSUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-05-20	82	47	13	11	<10
19-05-20	84	49	15	10	<10
TLV	200	100	60	80	80

CHANKAPUR PUMP HOUSE/ COLONY: NSUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-05-20	66	49	15	10	<10
19-05-20	68	51	17	12	<10
TLV	200	100	60	80	80


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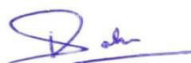
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Test Report
Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W1	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	SILEWARA UG	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: NSUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
14-05-20	7.22	18	28	<2
18-05-20	7.35	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: SILEWARA UG

YEAR: 2020
MONTH: MAY

FAN HOUSE: NSUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	14-05-20	69.2	68.4
MAY 2020	19-05-20	69.2	68.4
TLV		75	70

COLONY: NSUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	14-05-20	42.3	41.5
MAY 2020	19-05-20	41.4	40.5
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

SINGORI OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY-20



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REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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AN ISO 9001:2015 COMPANY



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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.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A10	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	SINGORI OC	SAMPLING PLAN : LQR 47	

CONTRACTOR CAMP: NSOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-05-20	73	56	28	8	<10
19-05-20	75	36	27	14	<10
TLV	600	300	60	120	120

SOHOLI VILLAGE : NSOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-05-20	72	52	17	11	<10
TLV	200	100	60	80	80

HINGNA VILLAGE: NSOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-05-20	70	53	15	10	<10
20-05-20	66	54	26	9	<10
TLV	200	100	60	80	80

DORLI VILLAGE: NSOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-05-20	104	78	23	15	<10
20-05-20	84	57	27	17	<10
TLV	200	100	60	80	80

J. Shray

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W10	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	NAGPUR AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	SINGORI OC	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: NSOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
04-05-20	7.6	16	24	<2
18-05-20	7.32	24	32	<2
TLV	5.5 - 9.0	100	250	10


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DEEPANSHU SAHU
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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MAY

CONTRACTOR CAMP: NSON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	05-05-20	56.2	55.5
MAY 2020	21-05-20	55.3	54.6
TLV		75	70

SOHOLI VILLAGE : NSON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	05-05-20	42.3	41.4
MAY 2020	21-05-20	42.5	41.7
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

CWS TADALI

CWS TADALI

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020

Environment Laboratory

CMPDI

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

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INTRODUCTION

Central Workshop Tadali is located in ChandrapurTahsil of Chandrapur district of Maharashtra State. It is administered by Central Workshop Tadali of Western Coalfields Limited.The drainage of the area is controlled by WardhaRiver.The climate of this area is tropical with The above-mentioned industries are also expected to contribute in increasing the pollution load of the area.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	SUB STATION:	CWSA1
2	NEAR FILTER PLANT:	CWSA2
3	ADMINSTRATIVE BUILDING:	CWSA3
4	CWS COLONY:	CWSA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	ETP DISCHARGE:	CWSW1

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NEAR WORKSHOP:	CWSN1
2	COLONY:	CWSN2

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

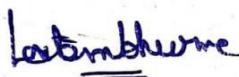
TSET REPORT NO.	RIN/TR/MAY-20/A41	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	CWS TADALI	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	CWS TADALI	SAMPLING PLAN	LQR 47

SUB STATION: CWSA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/l)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-05-20	86	44	24	10	<10
17-05-20	88	56	28	12	10
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
15-05-20	90	44	20	12	<10
17-05-20	96	60	32	16	10
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
15-05-20	94	56	28	16	<10
17-05-20	112	62	36	18	12
TLV	600	300	60	120	120

CWS COLONY: CWSA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/l)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-05-20	100	70	36	18	10
17-05-20	128	80	46	20	14
TLV	600	300	60	120	120



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DEEPANSHU SAHU
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Test Report
Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W41	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	CWS TADALI	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	CWS TADALI	SAMPLING PLAN : LQR 47	

ETP DISCHARGE: CWSW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
15-05-20	6.25	36	56	<2
16-05-20	6.36	40	60	<2
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: 2020
MONTH: MAY

NEAR WORKSHOP: CWSN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	09-05-20	56.9	55.8
MAY 2020	18-05-20	57.5	56.4
TLV		75	70

COLONY: CWSN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	09-05-20	43.5	42.7
MAY 2020	18-05-20	42.9	41.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

DINESH OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020

Environment Laboratory

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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER OFFICE:	UM30A1
2	NEAR RLY. WEIGHT BRIDGE:	UM30A2
3	WELSAKRA VILLAGE :	UM30A3
4	PIPARDOL 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.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A14	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	UMRER AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	DINESH OC	SAMPLING PLAN : LQR 47	

MANAGER OFFICE: UM30A1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-05-20	170	126	35	28	<10
28-05-20	174	129	36	28	<10
TLV	600	300	60	120	120

NEAR RLY. WEIGHT BRIDGE: UM30A2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-05-20	196	145	41	30	<10
28-05-20	186	138	39	30	<10
TLV	600	300	60	120	120

PIPARDOL VILLAGE: UM30A4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-05-20	67	49	14	11	<10
28-05-20	71	53	15	12	<10
TLV	200	100	60	80	80

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Test Report
Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W14	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	UMRER AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	DINESH OC	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: UM3OW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
09-05-20	7.1	18	28	<2
24-05-20	6.41	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
09-05-20	6.95	30	44	<2
24-05-20	7.08	22	32	<2
TLV	5.5 - 9.0	100	250	10

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MAY

NEAR PIT OFFICE: UM30N1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	09-05-20	56.6	55.7
MAY 2020	25-05-20	56.9	55.6
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

GOKUL OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020

Environment Laboratory

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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A14	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	UMRER AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	GOKUL OC	SAMPLING PLAN : LQR 47	

CONTRACTOR CAMP: UGOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-05-20	174	129	36	28	<10
24-05-20	170	126	35	26	<10
TLV	600	300	60	120	120

BESUR VILLAGE : UGOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-05-20	63	47	13	10	<10
09-05-20	58	43	12	9	<10
12-05-20	56	41	12	9	<10
13-05-20	64	48	13	10	<10
24-05-20	67	49	14	11	<10
25-05-20	58	43	12	9	<10
26-05-20	66	49	14	11	<10
27-05-20	64	47	13	10	<10
TLV	200	100	60	80	80

NAND VILLAGE: UGOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-05-20	66	49	14	11	<10
09-05-20	71	53	15	12	<10
12-05-20	64	47	13	10	<10
13-05-20	70	52	14	11	<10
24-05-20	70	52	14	11	<10
25-05-20	64	47	13	10	<10
26-05-20	71	53	15	12	<10
27-05-20	66	49	14	11	<10
TLV	200	100	60	80	80

POLGAON VILLAGE : UGOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-05-20	71	53	15	12	<10
09-05-20	75	56	16	12	<10
12-05-20	79	58	16	13	<10
13-05-20	77	57	17	14	<10
24-05-20	70	52	14	11	<10
25-05-20	79	58	16	13	<10
26-05-20	75	56	16	12	<10
27-05-20	81	60	17	13	<10
TLV	200	100	60	80	80

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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W14	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	UMRER AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	GOKUL OC	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: UGOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
08-05-20	6.7	26	40	<2
24-05-20	7.19	26	36	<2
TLV	5.5 - 9.0	100	250	10

ETP (WORKSHOP): UGOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
08-05-20	6.84	30	44	<2
24-05-20	6.4	28	40	<2
TLV	5.5 - 9.0	100	250	10

R. Annapurna

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MAY

CONTRACTOR CAMP: UGON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	09-05-20	56.6	55.7
MAY 2020	25-05-20	55.2	54.4
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

MAKARDHOKRA- II OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY -2020

Environment Laboratory

CMPDI

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

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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.

Test Report Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A12	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	UMRER AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	MAKARDHOKRA- II OC	SAMPLING PLAN : LQR 47	

NEAR MANAGER OFFICE: UMOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-05-20	158	117	33	26	<10
23-05-20	165	122	34	27	<10
TLV	600	300	60	120	120

SAM OFFICE: UMOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-05-20	186	138	39	30	<10
26-05-20	184	136	38	29	<10
TLV	600	300	60	120	120

NEAR PUMP HOUSE COLONY: UMOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-05-20	66	49	14	11	<10
23-05-20	79	58	16	13	<10
TLV	200	100	60	80	80

R. Annapurna

SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

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

NEAR PIT OFFICE: UMON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	09-05-20	55.2	54.4
MAY 2020	25-05-20	56.3	55.6
TLV		75	70

COLONY (UMRER OC): UMON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	09-05-20	42.5	41.6
MAY 2020	25-05-20	42.4	42.7
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

MAKARDHOKHRA- I OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020

Environment Laboratory

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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	KALMANA VILLAGE:	UM10A2
3	KHURSAPAR VILLAGE :	UM10A3
4	SIRPUR VILLAGE :	UM10A4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	UM10W1
2	ETP DISCHARGE	UM10W2

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.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A13	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	UMRER AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	MAKARDHOKHRA- I OC	SAMPLING PLAN : LQR 47	

PIT OFFICE: UM10A1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-05-20	184	136	38	30	<10
27-05-20	186	138	39	30	<10
TLV	600	300	60	120	120

SIRPUR VILLAGE : UM10A4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-05-20	63	42	12	8	<10
25-05-20	64	47	13	10	<10
TLV	200	100	60	80	80

R. Annapurna

SCIENTIFIC ASSISTANT

DEEPANSHU SAHU
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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W13	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	UMRER AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	MAKARDHOKHRA- I OC	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: UM10W1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
10-05-20	7.02	20	30	<2
24-05-20	6.36	18	28	<2
TLV	5.5 - 9.0	100	250	10

ETP DISCHARGE UM10W2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
06-05-20	6.9	24	32	BDL
25-05-20	7.02	20	32	BDL
TLV	5.5 - 9.0	100	250	10

R. Annapurna

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NOISE LEVEL DATA

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

NEAR PIT OFFICE: UM10N1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	09-05-20	56.4	55.7
MAY 2020	25-05-20	55.2	54.5
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

MURPAR UG

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020

Environment Laboratory

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INTRODUCTION

Murpar Underground Project is located in Chandrapur district of Maharashtra State and is administered by Umrer Area of Western Coalfields Limited. Drainage of the area is controlled by Gani nalla, which flows through central part of the project area. The climate of the area is tropical. As there is no other major industry nearby the project area, only road transport is the other source, which JUNE contribute to the air pollution.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NEAR PIT OFFICE:	UMUA1
2	NEAR MAGAZINE BUILDING:	UMUA2
3	COLONY :	UMUA3
4	MORPAR VILLAGE :	UMUA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	UMUW1

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE:	UMUN1
2	COLONY:	UMUN2

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A15	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	UMRER AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	MURPAR UG	SAMPLING PLAN	LQR 47

NEAR PIT OFFICE: UMUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-05-20	165	122	34	27	<10
19-05-20	170	126	35	28	<10
TLV	600	300	60	120	120

NEAR MAGAZINE BUILDING: UMUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-05-20	153	113	32	25	<10
19-05-20	165	122	34	27	<10
TLV	600	300	60	120	120

COLONY : UMUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-05-20	63	47	13	10	<10
19-05-20	70	52	14	11	<10
TLV	200	100	60	80	80

MORPAR VILLAGE : UMUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-05-20	71	53	15	12	<10
19-05-20	79	58	16	13	<10
TLV	200	100	60	80	80

R. Annapurna

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Test Report
Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W15	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	UMRER AREA	SAMPLING METHOD :	LSOP 5
NAME OF PROJECT	MURPAR UG	SAMPLING PLAN :	LQR 47

MINE WATER DISCHARGE: UMUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
06-05-20	6.71	22	32	BDL
18-05-20	6.92	24	36	BDL
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: 2020
MONTH: MAY

FAN HOUSE: UMUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	09-05-20	69.2	68.4
MAY 2020	18-05-20	69.6	68.7
TLV		75	70

COLONY: UMUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	09-05-20	42.3	41.5
MAY 2020	18-05-20	42.6	41.7
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

UMRER OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020

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**REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A11	DATE OF ISSUE	30.06.20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	UMRER AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	UMRER OC	SAMPLING PLAN : LQR 47	

UMRER MANAGER OFFICE: UUOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-05-20	174	129	36	28	<10
23-05-20	190	138	40	28	<10
TLV	600	300	60	120	120

NEAR WORKSHOP: UUOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-05-20	187	138	35	28	<10
23-05-20	196	145	41	30	<10
TLV	600	300	60	120	120

NEAR PUMP HOUSE COLONY: UUOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-05-20	66	49	14	11	<10
23-05-20	79	58	16	13	<10
TLV	200	100	60	80	80

R. Annapurna

SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
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FUGITIVE DUST MONITORING DATA

RLY. SIDING: UUOF3			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM	PM10	PM _{2.5}
DETECTION LIMIT	5	5	2
07-05-20	196	145	41

R. Annapurna

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Test Report
Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W11	DATE OF ISSUE	30.06.20
NAME OF CUSTOMER	WCL, NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	UMRER AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	UMRER OC	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: UUOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
06-05-20	6.41	18	28	BDL
25-05-20	6.45	28	40	BDL
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
06-05-20	6.97	36	44	BDL
25-05-20	7.07	30	44	BDL
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
06-05-20	46	10.2
25-05-20	56	10.8
TLV	100	30

R. Annapurna

SCIENTIFIC ASSISTANT



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MAY

CHP: UUON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	09-05-20	67.4	66.6
MAY 2020	25-05-20	66.4	65.6
TLV		75	70

COLONY: UUON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	09-05-20	42.5	41.6
MAY 2020	25-05-20	42.4	42.7
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

GHUGUS OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020

Environment Laboratory

CMPDI

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

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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.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A38	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	WANI AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	GHUGUS OC	SAMPLING PLAN	LQR 47

ACC PATCH NEAR ACC COLONY: WGOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-05-20	110	62	24	10	<10
20-05-20	104	66	20	10	<10
TLV	600	300	60	120	120

SAM OFFICE: WGOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-05-20	82	50	24	12	<10
21-05-20	100	62	26	14	<10
TLV	600	300	60	120	120

RAM NAGAR COLONY : WGOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-05-20	122	74	26	18	10
21-05-20	80	48	28	16	10
TLV	200	100	60	80	80

GHUGUS VILLAGE (GP OFFICE): WGOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-05-20	118	66	28	14	<10
20-05-20	64	40	18	10	<10
TLV	200	100	60	80	80



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NOISE LEVEL DATA

NAME OF AREA: WANI AREA **YEAR: 2020**
NAME OF PROJECT: GHUGUS OC **MONTH: MAY**

CHP: WGON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	09-05-20	64.8	63.4
MAY 2020	18-05-20	64.7	63.9
TLV		75	70

COLONY: WGON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	09-05-20	43.8	42.9
MAY 2020	18-05-20	44.7	43.5
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

KOLGAON OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020

Environment Laboratory

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REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A39	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	WANI AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	KOLGAON OC	SAMPLING PLAN	LQR 47

MANAGER OFFICE: WKOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-05-20	76	52	28	12	11
20-05-20	82	54	32	14	12
TLV	600	300	60	120	120

SAM OFFICE: WKOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-05-20	120	74	26	13	<10
18-05-20	84	50	28	12	10
TLV	600	300	60	120	120

KOLGAON VILLAGE : WKOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-05-20	98	56	24	10	<10
20-05-20	90	58	30	16	10
TLV	200	100	60	80	80

KAILSHNAGAR TOWNSHIP - FILTER PLANT: WKOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-05-20	104	82	24	12	<10
18-05-20	82	48	26	10	<10
TLV	200	100	60	80	80



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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W39	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	WANI AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	KOLGAON OC	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: WKOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
14-05-20	7.11	30	32	<2
19-05-20	7.56	44	40	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

NAME OF AREA: WANI AREA **YEAR: 2020**
NAME OF PROJECT: KOLGAON OC **MONTH: MAY**

MANAGER OFFICE: WKON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	09-05-20	55.6	54.9
MAY 2020	18-05-20	55.2	54.8
TLV		75	70

COLONY (MUGOLI): WKON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	09-05-20	43.5	42.8
MAY 2020	18-05-20	43.4	42.7
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

MUGOLI OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020

Environment Laboratory

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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 DISCHARGE	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.

Test Report
Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A36	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	WANI AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	MUGOLI OC	SAMPLING PLAN	LQR 47

SUB - STATION: WMOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-05-20	110	64	36	18	10
18-05-20	94	52	30	12	10
TLV	600	300	60	120	120

SAM OFFICE: WMOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-05-20	120	74	26	13	<10
18-05-20	84	50	28	12	10
TLV	600	300	60	120	120

KAILSHNAGAR TOWNSHIP FILTER PLANT : WMOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-05-20	104	82	24	12	<10
18-05-20	82	48	26	10	<10
TLV	200	100	60	80	80

TUBEWELL NEAR SAKHARA VILLAGE: WMOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-05-20	102	56	30	10	10
18-05-20	92	60	22	10	<10
TLV	200	100	60	80	80



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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W36	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	WANI AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	MUGOLI OC	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: WMOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
13-05-20	7.2	48	44	<2
18-05-20	7.96	38	40	<2
TLV	5.5 - 9.0	100	250	10

ETP DISCHARGE WMOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
13-05-20	7.05	32	36	<2
18-05-20	7.25	34	32	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MAY

CHP: WMON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	09-05-20	64.7	63.8
MAY 2020	18-05-20	64.6	63.9
TLV		75	70

COLONY: WMON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	09-05-20	43.5	42.8
MAY 2020	18-05-20	43.4	42.7
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

NAIGAON OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020

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.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A37	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	WANI AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	NAIGAON OC	SAMPLING PLAN : LQR 47	

SAM OFFICE: WNGOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-05-20	96	72	34	20	12
21-05-20	90	52	24	12	<10
TLV	600	300	60	120	120

WORKSHOP ETP NOCM - I: WNGOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-05-20	120	74	26	12	<10
22-05-20	100	60	24	10	<10
TLV	600	300	60	120	120

BELLORA REHABILITATION VILLAGE: WNGOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-05-20	100	64	32	14	10
23-05-20	98	64	26	16	12
TLV	200	100	60	80	80

FILTER PLANT NEAR VIP GUEST HOUSE: WNGOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-05-20	102	54	16	12	10
21-05-20	84	58	22	14	<10
TLV	200	100	60	80	80



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FUGITIVE DUST MONITORING DATA

WEIGHT BRIDGE: WNGOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
22-05-20	164	112	48



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MAY

CHP: WNGON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	09-05-20	63.6	62.9
MAY 2020	18-05-20	64.5	63.8
TLV		75	70

COLONY (GHUGUS): WNGON3			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	09-05-20	43.8	42.9
MAY 2020	18-05-20	44.7	43.5
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

NILJAI DEEP OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020

Environment Laboratory

CMPDI

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

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INTRODUCTION

Niljai opencast project is administered by Wani Area of Western Coalfields Limited. It falls in Wani Tahsil of Yeotmal district of Maharashtra state. Wardha River serves as the main drainage during rainy season. The climate of this area is tropical. The industries like Cement Plant, Lloyed Steel, and Brick Kiln are also likely to contribute in increasing the pollution in nearby villages/colony

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CIVIL OFFICE- NILJAI:	WNOA1
2	WORKSHOP ETP NOCM:	WNOA2
3	NILJAI COLONY:	WNOA3
4	TARODA VILLAGE:	WNOA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP:	WNOF1
2	WEIGHT BRIDGE:	WNOF2

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	WNOW1
2	ETP (NILJAI-S) TREATED WATER:	WNOW2
3	TP(DOMESTIC EFFLUENT) - TREATED WATE	WNOW3

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A35	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	WANI AREA	SAMPLING METHOD	: LSOP 4
NAME OF PROJECT	NILJAI DEEP OC	SAMPLING PLAN	: LQR 47

CIVIL OFFICE- NILJAI: WNOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-05-20	172	132	34	16	<10
23-05-20	145	111	30	14	<10
TLV	600	300	60	120	120

WORKSHOP ETP NOCM: WNOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-05-20	120	74	26	12	<10
22-05-20	100	60	24	10	<10
TLV	600	300	60	120	120

NILJAI COLONY: WNOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-05-20	100	56	28	18	10
22-05-20	96	58	30	16	10
TLV	200	100	60	80	80

TARODA VILLAGE: WNOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-05-20	130	70	26	12	<10
22-05-20	102	64	26	14	<10
TLV	200	100	60	80	80



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FUGITIVE DUST MONITORING DATA

CHP: WNOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
06-05-20	150	96	44

WEIGHT BRIDGE: WNOF2			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
06-05-20	138	84	40



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Test Report
Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W35	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.)WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 (Part 11):1983, IS 3025 (Part 17):1984, APHA (23rd Edition) 5220 C & IS 3025(Part 39):1991		
NAME OF AREA	WANI AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	NILJAI DEEP OC	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: WNOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
05-05-20	6.3	40	36	<2
22-05-20	6.78	36	32	<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
05-05-20	6.6	24	28	<2
22-05-20	6.51	38	40	<2
TLV	5.5 - 9.0	100	250	10

DOMESTIC EFFLUENT) - TREATED WATER: WNOW3		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS(in mg/l)	BOD(in mg/l)
DETECTION LIMIT	10	2
05-05-20	60	14
22-05-20	52	16
TLV	100	30



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NOISE LEVEL DATA

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

CHP: WNON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	09-05-20	64.5	63.8
MAY 2020	18-05-20	63.9	63.4
TLV		75	70

CHP (S): WNON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	09-05-20	63.7	62.9
MAY 2020	18-05-20	63.7	62.9
TLV		75	70

COLONY: WNON3			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	09-05-20	42.6	41.5
MAY 2020	18-05-20	42.5	41.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

PENGANGA OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020

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.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A40	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.)WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	WANI AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	PENGANGA OC	SAMPLING PLAN : LQR 47	

MANAGER OFFICE: WPOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-05-20	84	58	36	20	12
19-05-20	72	44	30	14	12
TLV	600	300	60	120	120

NEAR MINE: WPOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-05-20	90	56	32	18	10
19-05-20	84	52	24	12	<10
TLV	600	300	60	120	120

VIRUR VILLAGE : WPOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-05-20	84	52	26	14	10
19-05-20	76	48	26	12	<10
TLV	200	100	60	80	80

GADEGAON VILLAGE: WPOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-05-20	100	58	32	16	12
19-05-20	80	56	24	14	<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 $\mu\text{g}/\text{m}^3$)		
	SPM	PM10	PM _{2.5}
DETECTION LIMIT	5	5	2
13-05-20	176	102	36



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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W40	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	WANI AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	PENGANGA OC	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: WPOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
12-05-20	7.1	30	32	<2
19-05-20	7.78	30	28	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

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

NEAR WORKSHOP: WPON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	09-05-20	56.4	55.8
MAY 2020	18-05-20	56.5	55.7
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

GHONSA OC

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020



Environment Laboratory

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A55	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.)WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	WANI NORTH	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	GHONSA OC	SAMPLING PLAN : LQR 47	

MANAGER OFFICE: WNGOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-05-20	132	86	40	20	14
22-05-20	118	90	46	22	12
TLV	600	300	60	120	120

SAM OFFICE/ CANTEEN: WNGOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-05-20	118	63	36	14	10
25-05-20	140	88	44	16	10
TLV	600	300	60	120	120

GHONSA VILLAGE: WNGOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-05-20	80	50	30	18	12
22-05-20	96	60	32	20	14
TLV	200	100	60	80	80

GUEST HOUSE/ COLONY: WNGOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-05-20	128	64	36	18	12
25-05-20	120	56	32	16	10
TLV	200	100	60	80	80



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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W55	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.), WCL(HQ)NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	WANI NORTH	SAMPLING METHOD	LSOP 5
NAME OF PROJECT	GHONSA OC	SAMPLING PLAN	LQR 47

MINE WATER DISCHARGE: WNGOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
10-05-20	7.31	20	28	<2
21-05-20	7.36	24	36	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

NAME OF AREA: WANI NORTH **YEAR: 2020**
NAME OF PROJECT: GHONSA OC **MONTH: MAY**

MANAGER OFFICE: WNGON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	06-05-20	56.5	55.7
MAY 2020	22-05-20	56.7	55.8
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

JUNAD OC

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



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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.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A53	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	WANI NORTH	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	JUNAD OC	SAMPLING PLAN	LQR 45

SAM OFFICE: WNJOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-05-20	144	64	40	18	12
26-05-20	100	44	26	14	10
TLV	600	300	60	120	120

BORGAON VILLAGE: WNJOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-05-20	110	70	28	16	<10
26-05-20	138	88	40	16	10
TLV	200	100	60	80	80

BHALAR TOWNSHIP: WNJOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-05-20	98	58	24	14	<10
23-05-20	120	90	36	18	12
TLV	200	100	60	80	80

UKNI VILLAGE: WNJOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-05-20	100	58	38	18	10
23-05-20	96	54	36	18	12
TLV	200	100	60	80	80



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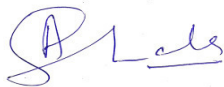


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AUTHORIZED SIGNATORY

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FUGITIVE DUST MONITORING DATA

SECURITY POST: WNJO1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM	PM10	PM _{2.5}
DETECTION LIMIT	5	5	2
10-05-20	132	66	44



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Test Report
Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W53	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	WANI NORTH	SAMPLING METHOD	LSOP 5
NAME OF PROJECT	JUNAD OC	SAMPLING PLAN	LQR 47

MINE WATER DISCHARGE: WNJOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
08-05-20	7.06	18	24	<2
25-05-20	7.1	20	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
08-05-20	6.7	20	32	<2
25-05-20	6.75	26	40	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MAY

MANAGER OFFICE: WNJON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	06-05-20	55.5	54.6
MAY 2020	22-05-20	55.4	54.8
TLV		75	70

BHALAR COLONY: WNJON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	06-05-20	43.6	42.7
MAY 2020	22-05-20	43.5	42.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

KOLARPIMPRI OC

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY-2020

Environment Laboratory

CMPDI

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

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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.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A50	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	WANI NORTH	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	KOLARPIMPRI OC	SAMPLING PLAN	LQR 47

SUBSTATION KOLARPIMPRI: WNKOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-05-20	60	42	26	16	10
24-05-20	74	38	30	14	10
TLV	600	300	60	120	120

REST SHELTER: WNKOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-05-20	116	60	32	17	12
25-05-20	136	74	40	18	10
TLV	600	300	60	120	120

PIMPRI VILLAGE: WNKOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT		5	2	6	10
07-05-20	90	40	28	12	10
23-05-20	88	36	20	16	10
TLV	200	100	60	80	80

WATER FILTER PLANT PRAGATI NAGAR: WNKOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-05-20	100	62	26	12	<10
28-05-20	110	65	36	17	12
TLV	200	100	60	80	80

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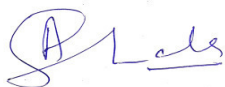
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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W50	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	WANI NORTH	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	KOLARPIMPRI OC	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: WNKOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	36	2
11-05-20	7.15	24	44	<2
23-05-20	7.2	22	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: 2020
MONTH: MAY

CHP: WNKON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	06-05-20	63.6	63.4
MAY 2020	22-05-20	62.9	62.7
TLV		75	70

COLONY PRAGATI NAGAR: WNKON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	06-05-20	42.7	41.9
MAY 2020	22-05-20	43.4	42.6
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

KUMBHARKHANI UG

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020

Environment Laboratory

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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INTRODUCTION

Junad Opencast Project is located in Wani Tahsil of Yeotmal district of Maharashtra State. It is administered by Wani North Area of Western Coalfields Limited. The drainage of the area is controlled by Wardha river. The climate of this area is tropical. The above-mentioned industries are also expected to contribute in increasing the pollution load of the area.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	PROJECT MANAGER OFFICE:	WNKUA1
2	SAM OFFICE/ CANTEEN:	WNKUA2
3	GUEST HOUSE / COLONY:	WNKUA3
4	GHONSA VILLAGE:	WNKUA4

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE:	WNKUN1
2	COLONY:	WNKUN2

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

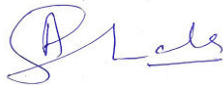
TSET REPORT NO.	RIN/TR/MAY-20/A54	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	WANI NORTH	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	KUMBHARKHANI UG	SAMPLING PLAN	LQR 47

PROJECT MANAGER OFFICE: WNKUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-05-20	128	77	31	15	10
25-05-20	144	88	36	16	10
TLV	600	300	60	120	120

SAM OFFICE/ CANTEEN: WNKUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-05-20	118	63	36	14	10
25-05-20	140	88	44	16	10
TLV	600	300	60	120	120

GUEST HOUSE / COLONY: WNKUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-05-20	128	64	36	18	12
25-05-20	120	56	32	16	10
TLV	200	100	60	80	80

GHONSA VILLAGE: WNKUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-05-20	80	50	30	18	12
22-05-20	96	60	32	20	14
TLV	200	100	60	80	80



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NOISE LEVEL DATA

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

FAN HOUSE: WNKUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	06-05-20	45.7	45.5
MAY 2020	22-05-20	46.6	45.8
TLV		75	70

COLONY: WNKUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	06-05-20	43.4	42.8
MAY 2020	22-05-20	43.5	42.7
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

PIMPALGAON OC

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY-2020

Environment Laboratory

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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.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A51	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	WANI NORTH	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	PIMPALGAON OC	SAMPLING PLAN : LQR 47	

SAM OFFICE: WNPOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-05-20	150	126	54	28	14
26-05-20	128	90	40	20	12
TLV	600	300	60	120	120

WORKSHOP: WNPOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-05-20	116	50	28	16	<10
27-05-20	140	54	38	14	10
TLV	600	300	60	120	120

WATER FILTER PLANT PRAGATI NAGAR: WNPOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-05-20	100	62	26	12	<10
28-05-20	110	65	36	17	12
TLV	200	100	60	80	80

BORGAON VILLAGE: WNPOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-05-20	110	70	28	16	<10
26-05-20	138	88	40	16	10
TLV	200	100	60	80	80



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NOISE LEVEL DATA

NAME OF AREA: WANI NORTH **YEAR: 2020**
NAME OF PROJECT: PIMPALGAON OC **MONTH: MAY**

CHP: WNPN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	06-05-20	64.4	63.7
MAY 2020	22-05-20	64.6	63.5
TLV		75	70

COLONY PRAGATI NAGAR: WNPN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	06-05-20	42.7	41.9
MAY 2020	22-05-20	43.4	42.6
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

RAJUR UG

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020

Environment Laboratory

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INTRODUCTION

Rajur Underground Project is located in Wani Tahsil of Yeotmal district of Maharashtra State. It is administered by Wani North Area of Western Coalfields Limited. Wardha river serves as the main drainage of the area. The climate of this area is tropical. Besides other coal mines, there are a lot of lime kiln and fire bricks industries near the project area. Transportation roads, agricultural and local activities, vehicular traffic etc also contributes to the pollution. The above-mentioned industries are also expected to contribute in increasing the pollution load of the area.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NEAR BANDEWADA INCLINE:	WNRUA1
2	SAM OFFICE:	WNRUA2
3	PIT OFFICE/ COLONY:	WNRUA3
4	HUTMENT:	WNRUA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	WNRUW1

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	FAN HOUSE:	WNRUN1
2	COLONY:	WNRUN2

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A52	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	WANI NORTH	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	RAJUR UG	SAMPLING PLAN	LQR 47

NEAR BANDEWADA INCLINE: WNRUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-05-20	140	82	36	20	14
22-05-20	162	104	44	30	16
TLV	600	300	60	120	120

SAM OFFICE: WNRUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-05-20	94	46	28	20	16
22-05-20	110	60	36	18	12
TLV	600	300	60	120	120

PIT OFFICE/ COLONY: WNRUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-05-20	96	54	32	16	12
21-05-20	118	64	36	18	14
TLV	600	300	60	120	120

HUTMENT: WNRUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-05-20	90	56	18	16	12
21-05-20	96	62	36	12	<10
TLV	200	100	60	80	80



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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W52	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	WANI NORTH	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	RAJUR UG	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: WNRUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
10-05-20	6.97	18	24	<2
21-05-20	6.88	20	28	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MAY

FAN HOUSE: WNRUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	06-05-20	68.8	67.9
MAY 2020	22-05-20	68.9	67.9
TLV		75	70

COLONY: WNRUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	06-05-20	43.4	42.8
MAY 2020	22-05-20	43.6	42.7
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

UKNI OC

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY-2020

Environment Laboratory

CMPDI

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

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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.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A49	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	WANI NORTH	SAMPLING METHOD :	LSOP 4
NAME OF PROJECT	UKNI OC	SAMPLING PLAN :	LQR 47

WORKSHOP PREMISES: WNUOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-05-20	136	60	20	17	<10
23-05-20	166	76	28	16	10
TLV	600	300	60	120	120

BHALAR TOWNSHIP: WNUOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-05-20	98	58	24	14	<10
23-05-20	120	90	36	18	12
TLV	200	100	60	80	80

UKNI VILLAGE: WNUOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-05-20	100	58	38	18	10
26-05-20	96	54	36	18	12
TLV	200	100	60	80	80

PIMPRI VILLAGE: WNUOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-05-20	90	40	28	12	10
23-05-20	88	36	20	16	10
TLV	200	100	60	80	80



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FUGITIVE DUST MONITORING DATA

CHP: WNUOF2			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM	PM10	PM _{2.5}
DETECTION LIMIT	5	5	2
10-05-20	124	60	36



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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W49	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	WANI NORTH	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	UKNI OC	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: WNUOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
09-05-20	5.75	30	48	<2
25-05-20	6.15	28	40	<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
09-05-20	6.55	26	44	<2
25-05-20	6.75	24	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
09-05-20	36	10
25-05-20	40	12
TLV	100	30



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MAY

CHP: WNUON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	06-05-20	64.7	63.8
MAY 2020	22-05-20	64.6	63.9
TLV		75	70

BHALAR COLONY: WNUON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	06-05-20	43.6	42.7
MAY 2020	22-05-20	43.5	42.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

WANI RAILWAY SIDING

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2020

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	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.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A56	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	WANI NORTH AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	WANI RAILWAY SIDING	SAMPLING PLAN : LQR 47	

FARMHOUSE NEAR MSH6 : WNRS1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-05-20	120	54	38	18	12
08-05-20	136	66	40	26	14
12-05-20	130	74	36	24	12
13-05-20	122	60	40	26	14
23-05-20	116	50	28	16	<10
24-05-20	144	62	36	18	10
27-05-20	118	60	40	20	12
28-05-20	142	70	36	22	10
TLV	600	300	60	120	120

SHETHKARI DHANYA BAZAR : WNRS2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-05-20	112	66	28	14	10
08-05-20	120	76	36	18	<10
12-05-20	116	72	32	14	10
13-05-20	98	60	20	16	12
23-05-20	118	82	28	20	10
24-05-20	100	72	30	16	10
27-05-20	108	74	36	18	12
28-05-20	114	66	40	20	16
TLV	200	100	60	80	80

RES.HOUSE VITTALWADI WANI: WNRS3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM₁₀	PM_{2.5}	NO_x	SO₂
DETECTION LIMIT	5	5	2	6	10
07-05-20	104	64	28	16	10
08-05-20	112	68	36	20	12
12-05-20	110	72	36	16	12
13-05-20	92	54	30	14	10
23-05-20	118	60	32	16	12
24-05-20	120	66	36	18	14
27-05-20	92	58	30	16	10
28-05-20	112	54	28	14	12
TLV	200	100	60	80	80



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NOISE LEVEL DATA

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

COAL STOCK YARD: WNRS1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	06-05-20	45.8	44.6
MAY 2020	22-05-20	45.7	44.9
TLV		75	70

NEAR INCHARGE OFFICE: WNRS2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY 2020	06-05-20	63.5	62.4
MAY 2020	22-05-20	62.5	61.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

AMBARA OC

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MAY-2020

Environment Laboratory

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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.

Test Report

Air quality monitoring data

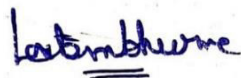
TSET REPORT NO.	RIN/TR/MAY-20/A74	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD :LSOP 4	
NAME OF PROJECT	AMBARA OC	SAMPLING PLAN : LQR 47	

MANAGER OFFICE : KAOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15.05.2020	134	99	24	17	<10
17.05.2020	112	79	26	15	11
TLV	600	300	60	120	120

PIT OFFICE- MOHAN: KAOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15.05.2020	110	88	21	13	<10
18.05.2020	107	85	25	15	<10
TLV	600	300	60	120	120

COLONY- HEALTH CENTRE: KAOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15.05.2020	100	69	22	15	10
22.05.2020	69	44	25	14	<10
TLV	200	100	60	80	80

AMBARA VILLAGE: KAOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12.05.2020	127	97	20	13	<10
17.05.2020	104	75	19	10	<10
TLV	200	100	60	80	80



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MAY

MANAGER OFFICE: KAON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	13.05.2020	50.8	49.2
MAY-2020	28.05.2020	52.4	49.7
TLV		75	70

COLONY (MOHAN/MAORI): KAON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	13.05.2020	44.6	43.4
MAY-2020	28.05.2020	46.4	43.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

AMBARA UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MAY-2020

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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.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A72	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	AMBARA UG	SAMPLING PLAN	LQR 47

SAM OFFICE- AMBARA : KAUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15.05.2020	128	100	24	16	<10
18.05.2020	106	81	23	18	13
TLV	600	300	60	120	120

PIT OFFICE- MOHAN: KAUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15.05.2020	110	88	21	13	<10
18.05.2020	107	85	25	15	<10
TLV	600	300	60	120	120

COLONY- HEALTH CENTRE: KAUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15.05.2020	100	69	22	15	10
22.05.2020	69	44	25	14	<10
TLV	200	100	60	80	80

AMBARA VILLAGE: KAUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12.05.2020	127	97	20	13	<10
17.05.2020	104	75	19	10	<10
TLV	200	100	60	80	80

Latimburme

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MAY

COLONY(MOHAN/MAORI) KAUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	13.05.2020	44.6	43.4
MAY-2020	28.05.2020	46.4	43.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

DAMUA OC

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MAY-2020

Environment Laboratory

CMPDI

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

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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.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A78	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	DAMUA OC	SAMPLING PLAN : LQR 47	

OC OFFICE : KDOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15.05.2020	66	45	19	8	<10
31.05.2020	89	53	22	9	<10
TLV	600	300	60	120	120

SAM OFFICE- DAMUA: KDOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07.05.2020	75	49	27	17	13
30.05.2020	90	65	21	14	<10
TLV	600	300	60	120	120

RESCUE STATION (NEAR INCLINE 24&25): KDOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
16.05.2020	111	74	45	24	16
30.05.2020	92	66	36	20	14
TLV	600	300	60	120	120

NANDORA VILLAGE: KDOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08.05.2020	76	51	26	18	15
30.05.2020	66	42	23	19	13
TLV	200	100	60	80	80

Lakshmi

SCIENTIFIC ASSISTANT

Deepanshu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MAY

NEAR MANAGER OFFICE: KDON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	13.05.2020	44.6	43.9
MAY-2020	28.05.2020	45.6	42.9
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

DAMUA UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MAY-2020

Environment Laboratory

CMPDI

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

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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

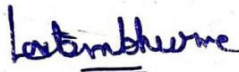
Test Report
Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A77	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	DAMUA UG	SAMPLING PLAN	LQR 47

SAM OFFICE- DAMUA: KDUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07.05.2020	75	49	27	17	13
30.05.2020	90	65	21	14	<10
TLV	600	300	60	120	120

RESCUE STATION (NEAR INCLINE 24&25): KDUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
16.05.2020	111	74	45	24	16
30.05.2020	92	66	36	20	14
TLV	600	300	60	120	120

NANDORA VILLAGE: KDUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08.05.2020	76	51	26	18	15
30.05.2020	66	42	23	19	13
TLV	200	100	60	80	80



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MAY

COLONY: KDUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	13.05.2020	44.9	42.1
MAY-2020	28.05.2020	45.7	43.1
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

GHORAWARI OC

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MAY-2020

Environment Laboratory

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	WEIGHT BRIDGE :	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.

Test Report

Air quality monitoring data

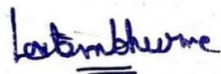
TSET REPORT NO.	RIN/TR/MAY-20/A76	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	GHORAWARI OC	SAMPLING PLAN : LQR 47	

MANAGER OFFICE-OC : KGOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07.05.2020	65	39	17	10	<10
17.05.2020	84	54	24	12	<10
TLV	600	300	60	120	120

SAM - OFFICE GHORAWARI : KGOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
16.05.2020	91	49	17	7	<10
31.05.2020	110	79	22	8	<10
TLV	600	300	60	120	120

COLONY- HEALTH CENTRE JHARNA: KGOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15.05.2020	70	39	20	9	<10
31.05.2020	78	42	25	10	<10
TLV	200	100	60	80	80

PANARA VILLAGE: KGOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
16.05.2020	78	49	19	7	<10
17.05.2020	66	47	23	8	<10
TLV	200	100	60	80	80



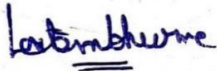
SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
|---|--|
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FUGITIVE DUST MONITORING DATA

WEIGHT BRIDGE :KGOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM	PM10	PM _{2.5}
DETECTION LIMIT	5	5	2
31.05.2020	103	80	22



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MAY

MANAGER OFFICE: KGON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	13.05.2020	47.2	44.6
MAY-2020	28.05.2020	46.2	43.1
TLV		75	70

COLONY (JHARNA UG) KGON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	13.05.2020	44.6	42.9
MAY-2020	28.05.2020	45.6	44.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

JHARNA - UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MAY 2020

Environment Laboratory

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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.

Test Report

Air quality monitoring data

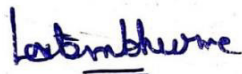
TSET REPORT NO.	RIN/TR/MAY-20/A75	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	JHARNA - UG	SAMPLING PLAN	LQR 47

MANAGER OFFICE- JHARNA UG : KJUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
16.05.2020	121	92	20	10	<10
31.05.2020	60	39	24	12	<10
TLV	600	300	60	120	120

SAM OFFICE- GHORAWARI: KJUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
16.05.2020	91	49	17	7	<10
31.05.2020	110	79	22	8	<10
TLV	600	300	60	120	120

COLONY- HEALTH CENTRE JHARNA: KJUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15.05.2020	70	39	20	9	<10
31.05.2020	78	42	25	10	<10
TLV	200	100	60	80	80

PANARA VILLAGE: KJUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
16.05.2020	78	49	19	7	<10
17.05.2020	66	47	23	8	<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: JHARNA - UG

YEAR: 2020
MONTH: MAY

FAN HOUSE: KJUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	13.05.2020	68.7	67.5
MAY-2020	28.05.2020	69.7	1574:24:00
TLV		75	70

COLONY: KJUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	13.05.2020	44.6	42.9
MAY-2020	28.05.2020	45.6	44.4
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

NANDAN UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MAY 2020

Environment Laboratory

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REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A71	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	NANDAN UG	SAMPLING PLAN : LQR 47	

SAM OFFICE- NANDAN I UG: KNUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15.05.2020	79	50	24	12	<10
29.05.2020	77	55	27	11	<10
TLV	600	300	60	120	120

PIT OFFICE- NANDAN II UG: KNUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08.05.2020	100	77	22	12	<10
30.05.2020	95	62	20	13	<10
TLV	600	300	60	120	120

HEALTH CENTRE- NANDAN UG: KNUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08.05.2020	70	49	30	14	11
29.05.2020	69	47	25	10	<10
TLV	200	100	60	80	80

NANDAN WATER FILTER PLANT: KNUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08.05.2020	80	55	17	7	<10
29.05.2020	78	52	15	10	<10
TLV	200	100	60	80	80

Lakshmi

SCIENTIFIC ASSISTANT

D. Sahu

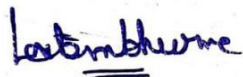
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Test Report
Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W71	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	NANDAN UG	SAMPLING PLAN : LQR 47	

MINE DISCHARGE: KNUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
07.05.2020	7.3	38	32	<2
28.05.2020	7.1	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: NANDAN UG

YEAR: 2020
MONTH: MAY

FAN HOUSE UG II: KNUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	13.05.2020	56.4	52.7
MAY-2020	28.05.2020	62.4	60.1
TLV		75	70

COLONY: KNUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	13.05.2020	45.2	42.4
MAY-2020	28.05.2020	45.6	42.9
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

MOHAN/ MAORI UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MAY-2020

Environment Laboratory

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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

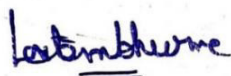
TSET REPORT NO.	RIN/TR/MAY-20/A73	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/Env/14-I/588-615 dated 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	MOHAN/ MAORI UG	SAMPLING PLAN : LQR 47	

SAM OFFICE- AMBARA : KMUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15.05.2020	128	100	24	16	<10
18.05.2020	106	81	23	18	13
TLV	600	300	60	120	120

PIT OFFICE- MOHAN: KMUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15.05.2020	110	88	21	13	<10
18.05.2020	107	85	25	15	<10
TLV	600	300	60	120	120

COLONY- HEALTH CENTRE: KMUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15.05.2020	100	69	22	15	10
22.05.2020	69	44	25	14	<10
TLV	200	100	60	80	80

AMBARA VILLAGE: KMUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12.05.2020	127	97	20	13	<10
17.05.2020	104	75	19	10	<10
TLV	200	100	60	80	80



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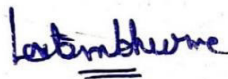
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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W73	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/Env/14-I/588-615 dated 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD :	LSOP 5
NAME OF PROJECT	MOHAN/ MAORI UG	SAMPLING PLAN :	LQR 47

MINE DISCHARGE: KMUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
15.05.2020	5.9	40	32	<2
21.05.2020	6.0	44	28	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

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

FAN HOUSE: KMUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	13.05.2020	69.4	67.5
MAY-2020	28.05.2020	65.7	67.2
TLV		75	70

COLONY: KMUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	13.05.2020	44.6	43.4
MAY-2020	28.05.2020	46.4	43.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

NANDAN WASHERY

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MAY 2020

Environment Laboratory

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REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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.

Test Report

Air quality monitoring data

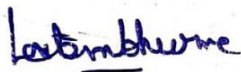
TSET REPORT NO.	RIN/TR/MAY-20/A70	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD :	LSOP 4
NAME OF PROJECT	NANDAN WASHERY	SAMPLING PLAN :	LQR 47

SUBSTATION : KNWA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07.05.2020	88	58	30	16	<10
23.05.2020	79	52	31	13	<10
TLV	600	300	60	120	120

SAM OFFICE- NANDAN I UG: KNWA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15.05.2020	79	50	24	12	<10
29.05.2020	77	55	27	11	<10
TLV	600	300	60	120	120

COLONY-GUEST HOUSE: KNWA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08.05.2020	95	66	26	12	<10
29.05.2020	68	45	24	11	<10
TLV	200	100	60	80	80

NANDAN WATER FILTER PLANT: KNWA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08.05.2020	80	55	17	7	<10
29.05.2020	78	52	15	10	<10
TLV	200	100	60	80	80



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NOISE LEVEL DATA

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

WASHERY: KNWN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	13.05.2020	46.7	42.9
MAY-2020	28.05.2020	47.7	44.9
TLV		75	70

COLONY: KNWN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	13.05.2020	44.6	41.5
MAY-2020	28.05.2020	45.4	43.6
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

TANDSI UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MAY-2020

Environment Laboratory

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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

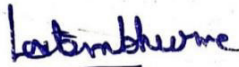
TSET REPORT NO.	RIN/TR/MAY-20/A79	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	TANDSI UG	SAMPLING PLAN : LQR 47	

WORKSHOP : KTUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14.05.2020	88	61	22	17	11
23.05.2020	92	55	27	15	12
TLV	600	300	60	120	120

LAMP ROOM: KTUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14.05.2020	70	48	25	10	<10
23.05.2020	60	40	27	12	<10
TLV	600	300	60	120	120

COLONY-NEAR HEALTH CENTRE: KTUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14.05.2020	100	59	24	15	<10
28.05.2020	81	49	26	17	<10
TLV	200	100	60	80	80

JET HOSTEL: KTUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14.05.2020	92	50	25	15	<10
23.05.2020	102	66	23	16	12
TLV	200	100	60	80	80



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Test Report
Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W79	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	KANHAN AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	TANDSI UG	SAMPLING PLAN : LQR 47	

MINE DISCHARGE: KTUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
14.05.2020	7.2	22	28	<2
22.05.2020	7.3	26	32	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MAY

FAN HOUSE: KTUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	13.05.2020	69.1	67.6
MAY-2020	28.05.2020	70.1	68.6
TLV		75	70

COLONY: KTUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	13.05.2020	45.2	42.5
MAY-2020	28.05.2020	45.9	43.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

CHATTARPUR-I & II UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MAY 2020



Environment Laboratory

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**REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NEAR COAL STOCK BUNKER-I	PKSUF1
2	NEAR COAL STOCK BUNKER-II	PKCUF2

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.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY -20/A81	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	PATHAKHERA AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	CHATTARPUR-I & II UG	SAMPLING PLAN	LQR 47

SUBSTATION- CHATTARPUR I UG: PKCUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04.05.2020	119	84	36	26	<10
22.05.2020	130	92	36	32	11
TLV	600	300	60	120	120

SAM OFFICE: PKCUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05.05.2020	180	94	40	36	11
22.05.2020	164	82	38	30	10
TLV	600	300	60	120	120

SUBSTATION- CHATTARPUR II UG: PKCUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05.05.2020	148	90	36	22	10
28.05.2020	130	76	40	26	<10
TLV	600	300	60	120	120

CHATTARPUR VILLAGE: PKCUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04.05.2020	90	65	32	19	<10
28.05.2020	99	72	28	22	<10
TLV	200	100	60	80	80



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FUGITIVE DUST MONITORING DATA

Near Coal Stock Bunker-I :PKCUF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM	PM10	PM _{2.5}
DETECTION LIMIT	5	5	2
22.05.2020	167	90	36

Near Coal Stock Bunker-II:PKCUF2			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM	PM10	PM _{2.5}
DETECTION LIMIT	5	5	2
22.05.2020	172	95	40



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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY -20/W81	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	PATHAKHERA AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	CHATTARPUR-I & II UG	SAMPLING PLAN : LQR 47	

MINE DISCHARGE-I UG: PKCUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
04.05.2020	7.55	30	36	<2
21.05.2020	7.77	24	32	<2
TLV	5.5 - 9.0	100	250	10

MINE DISCHARGE-II UG: PKCUW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
04.05.2020	7.71	34	36	<2
21.05.2020	7.9	30	28	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

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

FAN HOUSE- I UG: PKCUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	09.05.2020	69.4	68.5
MAY-2020	21.05.2020	69.5	68.7
TLV		75	70
FAN HOUSE- II UG: PKCUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	09.05.2020	70.2	68.9
MAY-2020	21.05.2020	69.2	68.1
TLV		75	70

COLONY: PKCUN3			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	09.05.2020	44.9	41.4
MAY-2020	21.05.2020	44.8	41.7
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

SARNI UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MAY -2020

Environment Laboratory

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INTRODUCTION

SarniUG Project is located in Betul district of Madhya Pradesh. The project is administered by Pathakhera Area of Western Coalfields Limited. The drainage of the area is mainly controlled by Tawariver. The climate of the area is tropical. Transportation roads, agricultural and local activities, vehicular traffic etc also contributes to the pollution.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	SUBSTATION SARNI UG:	PKSUA1
2	NEAR DY. CME OFFICE:	PKSUA2
3	GM OFFICE ENTRANCE GATE:	PKSUA3
4	PATHAKHERA COLONY:	PKSUA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP:	PKSUF1

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE DISCHARGE:	PKSUW1

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.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY -20/A83	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	PATHAKHERA AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	SARNI UG	SAMPLING PLAN : LQR 47	

SUBSTATION SARNI UG: PKSUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05.05.2020	178	96	34	22	<10
21.05.2020	148	76	26	14	<10
TLV	600	300	60	120	120


NEAR DY. CME OFFICE: PKSUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05.05.2020	120	80	32	24	<10
21.05.2020	136	96	36	32	11
TLV	600	300	60	120	120

GM OFFICE ENTRANCE GATE: PKSUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12.05.2020	94	32	26	16	<10
21.05.2020	76	24	29	19	<10
TLV	200	100	60	80	80

PATHAKHERA COLONY: PKSUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12.05.2020	105	72	30	19	<10
21.05.2020	126	86	32	22	<10
TLV	200	100	60	80	80



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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY -20/W83	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	PATHAKHERA AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	SARNI UG	SAMPLING PLAN : LQR 47	

MINE DISCHARGE: PKSUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
02.05.2020	7.32	32	36	<2
20.05.2020	7.93	36	44	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

NAME OF AREA: PATHAKHERA AREA YEAR: 2020
NAME OF PROJECT: SARNI UG MONTH: MAY

FAN HOUSE: PKSUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	09.05.2020	69.2	67.9
MAY-2020	21.05.2020	68.2	66.8
TLV		75	70

COLONY: PKSUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	09.05.2020	46.4	43.8
MAY-2020	21.05.2020	45.4	43.8
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

SHOBHAPUR UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MAY -2020

Environment Laboratory

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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	NEAR COAL STOCK BUNKER :	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.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY -20/A82	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	PATHAKHERA AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	SHOBHAPUR UG	SAMPLING PLAN : LQR 47	

SAM OFFICE: PKSUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12.05.2020	130	80	30	22	<10
25.05.2020	115	72	28	16	<10
TLV	600	300	60	120	120

SUBSTATION: PKSUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03.05.2020	74	36	30	18	<10
25.05.2020	66	34	24	16	<10
TLV	600	300	60	120	120

SHOBHAPUR VILLAGE: PKSUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04.05.2020	115	67	32	24	<10
18.05.2020	126	72	34	28	<10
TLV	200	100	60	80	80

SHOBHAPUR COLONY: PKSUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12.05.2020	80	46	30	19	<10
28.05.2020	65	43	24	12	<10
TLV	200	100	60	80	80



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FUGITIVE DUST MONITORING DATA

Near Coal Stock Bunker:PKSUF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM	PM10	PM _{2.5}
DETECTION LIMIT	5	5	2
03.05.2020	155	80	24



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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W82	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	PATHAKHERA AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	SHOBHAPUR UG	SAMPLING PLAN : LQR 47	

MINE DISCHARGE: PKS UW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
02.05.2020	7.42	36	32	<2
24.05.2020	7.8	32	40	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

NAME OF AREA: PATHAKHERA AREA **YEAR: 2020**
NAME OF PROJECT: SHOBHAPUR UG **MONTH: MAY**

FAN HOUSE: PKSUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	09.05.2020	69.4	68.1
MAY-2020	21.05.2020	70.1	68.9
TLV		75	70

COLONY: PKSUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	09.05.2020	45.2	43.5
MAY-2020	21.05.2020	46.7	44.6
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

TAWA II UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MAY 2020

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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NEAR COAL STOCK BUNKER :	PKSUF1

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.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY -20/A85	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	PATHAKHERA AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	TAWA II UG	SAMPLING PLAN : LQR 47	

MANAGER OFFICE- TAWA II: PKT2UA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03.05.2020	89	36	28	13	<10
25.05.2020	72	40	26	14	<10
TLV	600	300	60	120	120

SAM OFFICE: PKT2UA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
02.05.2020	132	56	32	22	<10
17.05.2020	120	48	30	24	<10
TLV	600	300	60	120	120

MPEB COLONY: PKT2UA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09.05.2020	76	32	21	12	<10
27.05.2020	89	40	26	14	<10
TLV	200	100	60	80	80

HIRA PALLA/BHAGIKHAAPA VILLAGE: PKT2UA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
02.05.2020	84	36	22	14	<10
17.05.2020	70	28	14	10	<10
TLV	200	100	60	80	80



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FUGITIVE DUST MONITORING DATA

Near Coal Stock Bunker:PKTU2F1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
03.05.2020	168	85	26



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Test Report
Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W85	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	PATHAKHERA AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	TAWA II UG	SAMPLING PLAN : LQR 47	

MINE DISCHARGE: PKTUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
02.05.2020	7.76	24	40	<2
24.05.2020	7.3	32	20	<2
TLV	5.5 - 9.0	100	250	10



SCIENTIFIC ASSISTANT



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AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

NAME OF AREA: PATHAKHERA AREA **YEAR: 2020**
NAME OF PROJECT: TAWA II UG **MONTH: MAY**

FAN HOUSE: PKTUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	08.05.2020	69.1	67.2
MAY-2020	25.05.2020	68.6	67.2
TLV		75	70

COLONY: PKTUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	08.05.2020	44.6	43.7
MAY-2020	25.05.2020	45.4	42.7
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

TAWA UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MAY 2020

Environment Laboratory

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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.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A84	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	PATHAKHERA AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	TAWA UG	SAMPLING PLAN : LQR 47	

SAM OFFICE: PKTUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
02.05.2020	132	56	32	22	<10
17.05.2020	120	48	30	24	<10
TLV	600	300	60	120	120

MANAGER OFFICE- TAWA II: PKTUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03.05.2020	89	36	28	13	<10
25.05.2020	72	40	26	14	<10
TLV	600	300	60	120	120

MPEB COLONY: PKTUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09.05.2020	76	32	21	12	<10
27.05.2020	89	40	26	14	<10
TLV	200	100	60	80	80

HIRA PALLA/BHAGIKHAAPA VILLAGE: PKTUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
02.05.2020	84	36	22	14	<10
17.05.2020	70	28	14	10	<10
TLV	200	100	60	80	80



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
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NOISE LEVEL DATA

NAME OF AREA: PATHAKHERA AREA YEAR: 2020
NAME OF PROJECT: TAWA UG MONTH: MAY

FAN HOUSE: PKTUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	08.05.2020	69.6	67.5
MAY-2020	25.05.2020	69.2	67.7
TLV		75	70

COLONY: PKTUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	08.05.2020	44.6	43.7
MAY-2020	25.05.2020	45.4	42.7
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

BARKUHI OC

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MAY -2020

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 :	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.

Test Report
Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A57	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM (ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	PENCH AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	BARKUHI OC	SAMPLING PLAN : LQR 47	

MANAGER OFFICE : PBOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15.05.2020	114	56	34	22	12
19.05.2020	118	48	31	19	11
TLV	600	300	60	120	120

SAM OFFICE: PBOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15.05.2020	180	133	38	24	12
19.05.2020	178	130	36	21	11
TLV	600	300	60	120	120

CHANDAMETA WORKSHOP: PBOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15.05.2020	184	136	37	22	13
19.05.2020	172	128	34	19	10
TLV	600	300	60	120	120

CENTRAL SCHOOL: PBOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15.05.2020	74	45	15	9	<10
19.05.2020	78	42	16	10	<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: BARKUHI OC

YEAR: 2020
MONTH: MAY

NEAR BARKUHI HOSPITAL: PBON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	14.05.20	44.2	42.9
MAY-2020	19.05.20	43.2	42.1
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

CHANDAMETA WORKSHOP

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MAY-2020

Environment Laboratory

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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.


Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A58	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	PENCH AREA	SAMPLING METHOD: LSOP 4	
NAME OF PROJECT	CHANDAMETA WORKSHOP	SAMPLING PLAN : LQR 47	

CHANDAMETA WORKSHOP : PCWA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15.05.2020	184	136	37	22	13
19.05.2020	172	128	34	19	10
TLV	600	300	60	120	120


SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

NAME OF AREA: PENCH AREA
NAME OF PROJECT: CHANDAMETA WORKSHO

YEAR: 2020
MONTH: MAY

NEAR CHANDAMETA WORKSHOP: PCWN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	14.05.20	56.7	55.4
MAY-2020	19.05.20	56.6	55.6
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

GANPATI UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MAY-2020



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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Fugitive Dust Monitoring locations:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report
Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A60	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM (ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	PENCH AREA	SAMPLING METHOD :	LSOP 4
NAME OF PROJECT	GANPATI UG	SAMPLING PLAN :	LQR 47

LAMP ROOM : PGUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12.05.2020	98	58	16	10	<10
22.05.2020	81	43	21	13	<10
TLV	600	300	60	120	120

MANAGER OFFICE: PGUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14.05.2020	105	52	26	16	<10
20.05.2020	112	48	23	14	<10
TLV	600	300	60	120	120

COLONY EDC- DISPENSARY: PGUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13.05.2020	103	76	21	13	<10
21.05.2020	82	58	24	15	<10
TLV	200	100	60	80	80

GUEST HOUSE- PARASIA: PGUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14.05.2020	54	40	11	7	<10
20.5.2020	56	38	13	8	<10
TLV	200	100	60	80	80

J. Shan

SCIENTIFIC ASSISTANT

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AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MAY

FAN HOUSE: PGUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	14.05.2020	69.2	68.5
MAY-2020	19.05.2020	67.5	66.5
TLV		75	70

COLONY: PGUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	14.05.2020	41.2	40.2
MAY-2020	19.05.2020	41.2	41.2
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

JAMUNIYA UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A69	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM (ENV) WCL,(HQ) NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	PENCH AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	JAMUNIYA UG	SAMPLING PLAN : LQR 47	

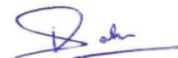
MANAGER OFFICE : PJUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08.05.2020	107	41	31	19	<10
26.05.2020	112	54	33	22	11
TLV	600	300	60	120	120

SUBSTATION: PJUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08.05.2020	126	71	34	21	16
26.05.2020	109	62	29	18	<10
TLV	600	300	60	120	120

JAMUNIYA VILLAGE: PJUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08.05.2020	76	55	16	10	<10
26.05.2020	84	52	21	13	<10
TLV	200	100	60	80	80

J. Shan

SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY


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Test Report
Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY -20/W69	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	PENCH AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	JAMUNIYA UG	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: PJUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
08.05.2020	7.05	16	24	<2
25.05.2020	7.14	18	28	<2
TLV	5.5 - 9.0	100	250	10


SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MAY

MANAGER OFFICE: PJUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	09.05.2020	42.1	39.5
MAY-2020	22.05.2020	41.7	40.1
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

MAHADEOPURI UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MAY-2020



Environment Laboratory

CMPDI

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

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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER OFFICE :	PMUA1
2	LAMP ROOM:	PMUA2
3	GUEST HOUSE PARASIA:	PMUA3
4	COLONY EDC- DISPENSARY:	PMUA4

Fugitive Dust Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A59	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	PENCH AREA	SAMPLING METHOD: LSOP 4	
NAME OF PROJECT	MAHADEOPURI UG	SAMPLING PLAN : LQR 47	

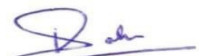
MANAGER OFFICE : PMUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14.05.2020	105	52	26	16	<10
20.05.2020	112	48	23	14	<10
TLV	600	300	60	120	120

LAMP ROOM: PMUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12.05.2020	98	58	16	10	<10
22.05.2020	81	43	21	13	<10
TLV	600	300	60	120	120

GUEST HOUSE PARASIA: PMUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14.05.2020	54	40	11	7	<10
20.5.2020	56	38	13	8	<10
TLV	200	100	60	80	80

COLONY EDC- DISPENSARY: PMUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13.05.2020	103	76	21	13	<10
21.05.2020	82	58	24	15	<10
TLV	200	100	60	80	80


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W59	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	PENCH AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	MAHADEOPURI UG	SAMPLING PLAN : 47	

MINE WATER DISCHARGE: PMUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
13.05.2020	7.2	28	36	<2
19.05.2020	6.41	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: MAHADEOPURI UG

YEAR: 2020
MONTH: MAY

FAN HOUSE: PMUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	14.05.2020	67.5	65.4
MAY-2020	19.05.2020	67.5	65.4
TLV		75	70

COLONY: PMUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	14.05.2020	40.9	39.7
MAY-2020	19.05.2020	40.2	40.2
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

NEHARIA UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MAY 2020



Environment Laboratory

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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INTRODUCTION

Naheria UG project is located in Chhindwara district of Madhya Pradesh. The project is administered by Pench Area of Western Coalfields Limited. The drainage of area is mainly controlled by the Perennial Gunor river and Dhankasa nullah. The climate of the area is tropical. Transportation roads, agricultural and local activities, vehicular traffic etc also contributes to the pollution.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	SAM OFFICE :	PNUA1
2	LAMP ROOM/ SUBSTATION:	PNUA2
3	NEHARIA VILLAGE:	PNUA3
4	BOKAI TOWNSHIP:	PNUA4

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report
Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A67	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV) WCL, (HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	PENCH AREA	SAMPLING METHOD:	LSOP 4
NAME OF PROJECT	NEHARIA UG	SAMPLING PLAN :	LQR 47

SAM OFFICE : PNUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10.05.2020	166	136	32	22	10
24.05.2020	168	138	36	23	11
TLV	600	300	60	120	120

LAMP ROOM/ SUBSTATION: PNUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09.05.2020	182	134	36	26	12
25.05.2020	172	127	32	21	10
TLV	600	300	60	120	120

NEHARIA VILLAGE: PNUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09.05.2020	70	38	15	9	<10
25.05.2020	66	47	13	8	<10
TLV	200	100	60	80	80

BOKAI TOWNSHIP: PNUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09.05.2020	109	86	34	21	16
25.05.2020	125	85	43	27	14
TLV	200	100	60	80	80

J. Shan

SCIENTIFIC ASSISTANT

Deepanshu

DEEPANSHU SAHU
AUTHORIZED SIGNATORY


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Test Report
Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY -20/W67	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM (ENV)WCL,(HQ) NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	PENCH AREA	SAMPLING METHOD :	LSOP 5
NAME OF PROJECT	NEHARIA UG	SAMPLING PLAN :	LQR 47

MINE WATER DISCHARGE: PNUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
09.05.2020	7.10	16	24	<2
23.05.2020	7.16	22	32	<2
TLV	5.5 - 9.0	100	250	10


SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MAY

FAN HOUSE: PNUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	09.05.2020	67.5	65.4
MAY-2020	22.05.2020	67.5	65.2
TLV		75	70

COLONY: PNUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	09.05.2020	40.5	39.5
MAY-2020	22.05.2020	41.5	40.1
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

NEW SETHIA OC

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MAY-2020



Environment Laboratory

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NEW SETHIA OC SITE:	PSOA1
2	SAM OFFICE:	PSOA2
3	CHINDA VILLAGE:	PSOA3
4	CHINDA COLONY:	PSOA4

Water Quality Monitoring location:

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

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NEAR MANAGER OFFICE:	PSO1
2	COLONY- CHINDA:	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.

Test Report
Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A65	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	PENCH AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	NEW SETHIA OC	SAMPLING PLAN	LQR 47

NEW SETHIA OC SITE: PSOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13.05.2020	188	128	36	20	11
21.05.2020	182	130	32	19	12
TLV	600	300	60	120	120

SAM OFFICE: PSOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14.05.2020	109	62	29	18	<10
20.05.2020	126	71	34	21	16
TLV	600	300	60	120	120

CHINDA VILLAGE: PSOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13.05.2020	54	40	11	7	<10
21.05.2020	56	38	13	8	<10
TLV	200	100	60	80	80

CHINDA COLONY: PSOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13.05.2020	84	62	17	11	<10
21.05.2020	76	55	16	10	<10
TLV	200	100	60	80	80

J. Shan
SCIENTIFIC ASSISTANT

Deepanshu Sahu
DEEPANSHU SAHU
AUTHORIZED SIGNATORY


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Test Report
Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W65	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL,(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	PENCH AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	NEW SETHIA OC	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: PSOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
12.05.2020	7.45	18	28	<2
20.05.2020	6.98	14	24	<2
TLV	5.5 - 9.0	100	250	10


SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MAY

NEAR MANAGER OFFICE: PSON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	09.05.2020	40.1	39.2
MAY-2020	22.05.2020	40.5	39.4
TLV		75	70

COLONY- CHINDA: PSON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	09.05.2020	41.5	40.9
MAY-2020	22.05.2020	42.5	40.2
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

SHIVPURI OC

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MAY-2020



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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	SITE OFFICE:	PSOA1
2	SUBSTATION-VISHNUPURI UG:	PSOA2
3	COLONY GUEST HOUSE SHIVPURI:	PSOA3
4	CHINDA VILLAGE:	PSOA4

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report
Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A63	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM (ENV.), WCL (HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	PENCH AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	SHIVPURI OC	SAMPLING PLAN : LQR 47	

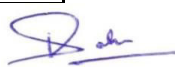
SITE OFFICE: PSOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11.05.2020	163	128	36	21	13
23.05.2020	186	138	38	23	12
TLV	600	300	60	120	120

SUBSTATION-VISHNUPURI UG: PSOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11.05.2020	182	136	38	24	11
23.05.2020	178	128	34	21	10
TLV	600	300	60	120	120

COLONY GUEST HOUSE SHIVPURI: PSOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11.05.2020	61	45	13	8	<10
23.05.2020	63	43	14	9	<10
TLV	200	100	60	80	80

CHINDA VILLAGE: PSOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13.05.2020	54	40	11	7	<10
21.05.2020	56	38	13	8	<10
TLV	200	100	60	80	80

J. Shan
SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W63	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	PENCH AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	SHIVPURI OC	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: PSOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
10.05.2020	6.94	26	36	<2
22.05.2020	6.73	18	28	<2
TLV	5.5 - 9.0	100	250	10


SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MAY

NEAR MANAGER OFFICE: PSON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	09.05.2020	45.7	42.2
MAY-2020	22.05.2020	45.4	44.5
TLV		75	70

COLONY: PSON2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	09.05.2020	42.7	40.5
MAY-2020	22.05.2020	41.7	40.2
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

THESGORA MATHANI -UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MAY-2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

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INTRODUCTION

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. contribute to the pollution.

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis.

NOISE: Noise level is monitored on fortnightly basis.

Test Report
Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A66	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.)WCL (HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	PENCH AREA	SAMPLING METHOD	LSOP 4
NAME OF PROJECT	THESGORA MATHANI -UG	SAMPLING PLAN	LQR 47

MATHANI VILLAGE: PTUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10.05.2020	105	74	22	13	<10
24.05.2020	84	58	24	15	<10
TLV	200	100	60	80	80

SAM OFFICE: PTUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11.05.2020	172	118	32	21	11
23.05.2020	168	116	28	18	10
TLV	600	300	60	120	120

MANAGER OFFICE- MATHANI: PTUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10.05.2020	189	138	36	23	12
24.05.2020	186	142	38	24	12
TLV	600	300	60	120	120

JHURE COLONY- FILTER PLANT PTUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10.05.2020	70	38	15	9	<10
24.05.2020	63	47	13	8	<10
TLV	200	100	60	80	80



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W66	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	PENCH AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	THESGORA MATHANI -UG	SAMPLING PLAN : LQR 47	

MINE DISCHARGE: PTUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
11.05.2020	7.18	22	32	<2
22.05.2020	7.23	26	36	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

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

FAN HOUSE- MATHANI: PTUN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	09.05.2020	68.7	65.4
MAY-2020	22.05.2020	69.7	65.4
TLV		75	70

COLONY (THESGORA) PTUN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	09.05.2020	42.1	40.5
MAY-2020	22.05.2020	42.5	40.7
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

URDHAN OC

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MAY-2020



Environment Laboratory

CMPDI

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

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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 Dhankasanullah. The climate of the area is tropical. Transportation roads, agricultural and local activities, vehicular traffic etc also contributes to the pollution.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	URDHAN MANAGER OFFICE:	PUOA1
2	URDHAN VILLAGE:	PUOA2
3	NEHARIA VILLAGE:	PUOA3
4	BOKAI TOWNSHIP:	PUOA4

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report
Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A68	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.)WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	PENCH AREA	SAMPLING METHOD :	LSOP 4
NAME OF PROJECT	URDHAN OC	SAMPLING PLAN :	LQR 47

URDHAN MANAGER OFFICE: PUOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09.05.2020	186	138	38	23	12
25.05.2020	182	132	36	24	10
TLV	600	300	60	120	120

URDHAN VILLAGE: PUOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08.05.2020	81	56	21	13	<10
26.05.2020	98	58	16	10	<10
TLV	200	100	60	80	80

NEHARIA VILLAGE: PUOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09.05.2020	70	38	15	9	<10
25.05.2020	66	47	13	8	<10
TLV	200	100	60	80	80

BOKAI TOWNSHIP: PUOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09.05.2020	109	86	34	21	16
25.05.2020	125	85	43	27	14
TLV	200	100	60	80	80

J. Shan
SCIENTIFIC ASSISTANT

Deepanshu Sahu
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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MAY

NEAR MANGER OFFICE: PUON1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	09.05.2020	42.1	39.5
MAY-2020	22.05.2020	41.7	40.1
TLV		75	70

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ENVIRONMENTAL MONITORING REPORT

VISHNUPURI -II UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MAY -20

Environment Laboratory

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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-II:	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.

Test Report
Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A62	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM (ENV) WCL,(HQ) NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	PENCH AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	VISHNUPURI -II UG	SAMPLING PLAN : LQR 47	

SAM OFFICE: PV2UA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12.05.2020	176	128	36	23	12
22.05.2020	172	140	39	24	<10
TLV	600	300	60	120	120

SUBSTATION: PV2UA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11.05.2020	182	136	38	24	11
23.05.2020	178	128	34	21	10
TLV	600	300	60	120	120

COLONY GUEST HOUSE SHIVPURI: PV2UA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11.05.2020	61	45	13	8	<10
23.05.2020	63	43	14	9	<10
TLV	200	100	60	80	80

CHINDA VILLAGE: PV2UA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13.05.2020	54	40	11	7	<10
21.05.2020	56	38	13	8	<10
TLV	200	100	60	80	80

J. Shan

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Test Report
Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/W62	DATE OF ISSUE	30-06-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	IS 3025 -Part 11:1983(RA 2017), IS 3025-Part 17:1984(RA 2017), APHA (23rd Edition) 5220 C :2017 & IS 3025-Part 39:1991(RA 2019)		
NAME OF AREA	PENCH AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	VISHNUPURI -II UG	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE- II : PV2UW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
10.05.2020	7.11	14	24	<2
22.05.2020	7.1	28	36	<2
TLV	5.5 - 9.0	100	250	10

J. Shan

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NOISE LEVEL DATA

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

FAN HOUSE UG-II: PV2UN1			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	09.05.2020	69.7	66.4
MAY-2020	22.05.2020	69.5	68.4
TLV		75	70

COLONY (VISHNUPURI -I): PV2UN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	09.05.2020	42.5	40.2
MAY-2020	22.05.2020	42.5	41.5
TLV		55	45

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ENVIRONMENTAL MONITORING REPORT

VISHNUPURI -I UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



MAY-2020

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 contribute to the pollution.

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis.

NOISE: Noise level is monitored on fortnightly basis.

Test Report
Air quality monitoring data

TSET REPORT NO.	RIN/TR/MAY-20/A61	DATE OF ISSUE	30.06.2020
NAME OF CUSTOMER	GM (ENV.), WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NOx: IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	PENCH AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	VISHNUPURI -I UG	SAMPLING PLAN : LQR 47	


SAM OFFICE: PV1UA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12.05.2020	176	128	36	23	12
22.05.2020	172	140	39	24	<10
TLV	600	300	60	120	120

SUBSTATION: PV1UA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11.05.2020	182	136	38	24	11
23.05.2020	178	128	34	21	10
TLV	600	300	60	120	120

COLONY GUEST HOUSE SHIVPURI: PV1UA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11.05.2020	61	45	13	8	<10
23.05.2020	63	43	14	9	<10
TLV	200	100	60	80	80

CHINDA VILLAGE: PV1UA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13.05.2020	54	40	11	7	<10
21.05.2020	56	38	13	8	<10
TLV	200	100	60	80	80


SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: MAY

COLONY (VISHNUPURI -I): PV1UN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
MAY-2020	09.05.2020	68.7	67.4
MAY-2020	22.05.2020	67.4	66.5
TLV		55	45