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ENVIRONMENTAL MONITORING REPORT

BALLARPUR OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE -2020

Environment Laboratory

CMPDI

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

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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER OFFICE- BALLARPUR UG:	BBOA1
2	SUBSTATION:	BBOA2
3	PREMISES OF SUB AREA OFFICE:	BBOA3
4	FILTER PLANT COLONY:	BBOA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP/ COAL LOADING POINT:	BBOF1
2	WEIGHT BRIDGE:	BBOF2
3	RAILWAY SIDING:	BBOF3

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	BBOW1
2	ETP DISCHARGE:	BBOW2

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP:	BBON1
2	COLONY (BALLARPUR UG):	BBON2

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE -20/A20	DATE OF ISSUE	31-07-20
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 µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-06-20	189	118	53	14	10
26-06-20	219	108	47	17	11
TLV	600	300	60	120	120

SUBSTATION: BBOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-06-20	208	104	48	15	10
27-06-20	184	93	57	17	12
TLV	600	300	60	120	120

PREMISES OF SUB AREA OFFICE: BBOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-06-20	198	114	57	17	11
26-06-20	192	98	44	14	10
TLV	600	300	60	120	120

FILTER PLANT COLONY: BBOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-06-20	218	128	49	16	11
26-06-20	184	96	53	19	13
TLV	200	100	60	80	80



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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE -20/W20	DATE OF ISSUE	31-07-20
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
07-06-20	7.3	44	40	<2
08-06-20	7.18	40	36	<2
TLV	5.5 - 9.0	100	250	10

ETP DISCHARGE: BBOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
07-06-20	7.38	38	36	<2
08-06-20	7.46	44	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: JUNE

CHP: BBON1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	06-06-20	65.3
JUNE 2020	19-06-20	51.7
TLV		75

COLONY (BALLARPUR UG): BBON2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	06-06-20	51.8
JUNE 2020	19-06-20	43.4
TLV		55

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ENVIRONMENTAL MONITORING REPORT

BALLARPUR UG

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 2020

Environment Laboratory

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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/JUNE -20/A19	DATE OF ISSUE	31-07-20
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
07-06-20	189	118	58	14	10
26-06-20	219	108	47	17	11
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
08-06-20	208	104	48	15	10
27-06-20	184	93	57	17	12
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
08-06-20	198	114	57	17	11
26-06-20	192	98	44	14	10
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
08-06-20	218	128	49	16	11
26-06-20	184	96	53	19	13
TLV	200	100	60	80	80


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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE -20/W19	DATE OF ISSUE	31-07-20
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
07-06-20	7.47	34	36	<2
18-06-20	7.24	42	32	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JUNE

FAN HOUSE: BBUN1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	06-06-20	68.9
JUNE 2020	19-06-20	73.4
TLV		75

COLONY: BBUN2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	06-06-20	51.8
JUNE 2020	19-06-20	43.4
TLV		55

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ENVIRONMENTAL MONITORING REPORT

GOURI- I& II (A) OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 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/JUNE -20/A21	DATE OF ISSUE	31-07-20
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 $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-06-20	204	113	63	17	<10
20-06-20	197	87	49	18	12
TLV	600	300	60	120	120

SAM OFFICE GOURI- SUB AREA: BGOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-06-20	197	124	54	14	<10
20-06-20	194	102	48	17	11
TLV	600	300	60	120	120

GOURI COLONY/ FILTER PLANT: BGOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-06-20	214	118	78	16	13
20-06-20	207	95	55	19	12
TLV	200	100	60	80	80

GOURI VILLAGE: BGOF2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-06-20	205	116	48	18	12
20-06-20	208	101	53	17	11
TLV	200	100	60	80	80


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Test Report


Effluent water quality monitoring data

TSET REPORT NO.	RIN/JUNE -20/W21	DATE OF ISSUE	31-07-20
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
04-06-20	7.56	42	40	<2
18-06-20	7.24	34	36	<2
TLV	5.5 - 9.0	100	250	10

ETP DISCHARGE BGOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
04-06-20	7.47	48	44	<2
18-06-20	7.32	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: GOURI- I& II (A) OC **MONTH: JUNE**

CHP: BGON1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	14-06-20	66.8
JUNE 2020	19-06-20	63.6
TLV		75

GOURI COLONY: BGON2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	04-06-20	46.2
JUNE 2020	19-06-20	43.4
TLV		55

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ENVIRONMENTAL MONITORING REPORT

GOURI DEEP OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 2020

Environment Laboratory

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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/JUNE -20/A23	DATE OF ISSUE	31-07-20
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
04-06-20	184	93	46	14	<10
18-06-20	174	88	53	15	<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
05-06-20	192	102	58	13	<10
18-06-20	188	97	63	16	<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
04-06-20	178	116	52	16	<10
17-06-20	214	98	47	17	11
TLV	200	100	60	80	80

ANTARGAON VILLAGE: BGDO4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-06-20	198	114	67	15	<10
17-06-20	193	88	63	16	12
TLV	200	100	60	80	80


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Test Report
Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE -20/W23	DATE OF ISSUE	31-07-20
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
04-06-20	7.23	34	32	<2
17-06-20	7.49	40	36	<2
TLV	5.5 - 9.0	100	250	10

ETP (WORKSHOP): BGDW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
04-06-20	7.14	38	40	<2
17-06-20	7.32	42	44	<2
TLV	5.5 - 9.0	100	250	10


SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
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NOISE LEVEL DATA

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

MANAGER OFFICE: BGDN1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	14-06-20	50.8
JUNE 2020	19-06-20	52.6
TLV		75

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ENVIRONMENTAL MONITORING REPORT

NEW DHOPTALA OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



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

Fugitive Dust Monitoring locations:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE -20/A18	DATE OF ISSUE	31.07.2020
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
06-06-20	224	132	48	18	12
17-06-20	208	113	52	16	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
08-06-20	207	104	58	14	11
27-06-20	197	103	53	17	13
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
13-06-20	208	139	54	14	10
27-06-20	210	97	63	17	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
06-06-20	197	104	52	17	10
17-06-20	184	84	43	16	11
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: JUNE

CHP: BNDN1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	06-06-20	66.3
JUNE 2020	20-06-20	59.7
TLV		75

SASTI COLONY: BNDN2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	04-06-20	45.2
JUNE 2020	20-06-20	42.7
TLV		55

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ENVIRONMENTAL MONITORING REPORT

PAUNI O/C

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE -2020

Environment Laboratory

CMPDI

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

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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/JUNE -20/A22	DATE OF ISSUE	31-07-20
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
15-06-20	198	116	57	16	<10
18-06-20	182	102	53	17	<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
15-06-20	153	78	49	17	11
18-06-20	216	114	58	19	<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
15-06-20	154	87	53	15	11
19-06-20	198	102	58	16	12
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
12-06-20	205	116	48	18	12
20-06-20	208	101	53	17	11
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/JUNE -20/W22	DATE OF ISSUE	31-07-20
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
14-06-20	7.46	42	36	<2
17-06-20	7.88	46	40	<2
TLV	5.5 - 9.0	100	250	10

ETP DISCHARGE: BPOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
14-06-20	7.38	46	40	<2
17-06-20	7.48	38	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: JUNE**

MANAGER OFFICE: BPON1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	14-06-20	51.2
JUNE 2020	17-06-20	52.7
TLV		75

GOURI COLONY: BPON2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	04-06-20	46.2
JUNE 2020	19-06-20	43.4
TLV		55

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ENVIRONMENTAL MONITORING REPORT

PAUNI II OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 2020

Environment Laboratory

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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/JUNE -20/A24	DATE OF ISSUE	31-07-20
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
15-06-20	167	105	66	17	11
19-06-20	183	104	63	18	12
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
14-06-20	173	113	73	16	12
19-06-20	218	103	55	17	11
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
14-06-20	183	119	63	17	12
19-06-20	177	87	53	18	12
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
15-06-20	153	78	49	17	11
18-06-20	216	114	58	19	<10
TLV	600	300	60	120	120


SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE -20/W24	DATE OF ISSUE	31-07-20
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
13-06-20	7.42	40	36	<2
18-06-20	7.43	48	32	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JUNE

MANAGER OFFICE: BP2ON1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	14-06-20	53.2
JUNE 2020	17-06-20	51.7
TLV		75

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ENVIRONMENTAL MONITORING REPORT

SASTI OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 2020

Environment Laboratory

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INTRODUCTION

Sasti Opencast Project is located in Chandrapur district of Maharashtra State and 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-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/JUNE -20/A16	DATE OF ISSUE	31.07.2020
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
13-06-20	198	114	49	16	11
20-06-20	208	97	57	18	13
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
13-06-20	207	132	58	16	12
27-06-20	212	104	64	17	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
04-06-20	214	118	78	16	13
20-06-20	207	95	55	19	12
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
06-06-20	197	104	52	17	10
17-06-20	184	84	43	16	11
TLV	200	100	60	80	80


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Test Report

Effluent water quality monitoring data


TSET REPORT NO.	RIN/TR/JUNE-20/W16	DATE OF ISSUE	31.07.2020
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
08-06-20	7.62	28	32	<2
16-06-20	7.32	34	28	<2
TLV	5.5 - 9.0	100	250	10

ETP DISCHARGE: BSOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
08-06-20	7.42	38	36	<2
16-06-20	7.43	46	40	<2
TLV	5.5 - 9.0	100	250	10

STP (DOMESTIC EFFLUENT) TREATED BSOW3		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS(in mg/l)	BOD(in mg/l)
DETECTION LIMIT	10	2
08-06-20	64	10.8
16-06-20	74	11.4
TLV	100	30


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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JUNE

CHP: BSON1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	04-06-20	65.8
JUNE 2020	16-06-20	64.6
TLV		75

G. COLONY: BSON2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	04-06-20	46.2
JUNE 2020	19-06-20	43.4
TLV		55

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ENVIRONMENTAL MONITORING REPORT

SASTI UG

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 2020

Environment Laboratory

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INTRODUCTION

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

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

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

Fugitive Dust Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/A17	DATE OF ISSUE	31.07.2020
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
06-06-20	224	132	48	18	12
17-06-20	208	113	52	16	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
08-06-20	207	104	58	14	11
27-06-20	197	103	53	17	13
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
13-06-20	208	139	54	14	10
27-06-20	210	97	63	17	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
06-06-20	197	104	52	17	10
17-06-20	184	84	43	16	11
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
09-06-20	384	214	98


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Test Report
Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE -20/W17	DATE OF ISSUE	31.07.2020
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
06-06-20	7.38	34	28	<2
16-06-20	7.48	46	36	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JUNE

FAN HOUSE: BSUN1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	04-06-20	71.5
JUNE 2020	20-06-20	72.5
TLV		75

SASTI COLONY: BSUN2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	04-06-20	45.2
JUNE 2020	20-06-20	42.7
TLV		55

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ENVIRONMENTAL MONITORING REPORT

BHATADI OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE-2020

Environment Laboratory

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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/JUNE-20/A34	DATE OF ISSUE	31.07.2020
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
08-06-20	98	67	34	30	<10
30-06-20	107	72	30	24	<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
08-06-20	186	105	40	34	<10
30-06-20	174	96	32	28	<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
08-06-20	105	69	34	24	<10
30-06-20	117	76	30	30	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
08-06-20	140	93	30	22	<10
30-06-20	127	80	28	18	<10
TLV	200	100	60	80	80



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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE -20/W34	DATE OF ISSUE	31.07.2020
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
07-06-202	7.32	30	36	<2
24-06-20	7.43	36	32	<2
TLV	5.5 - 9.0	100	250	10

ETP DISCHARGE: CBOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
07-06-20	7.5	28	24	<2
24-06-20	7.64	32	28	<2
TLV	5.5 - 9.0	100	250	10

STP (DOMESTIC EFFULENT) TREATED: CBOW3		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS(in mg/l)	BOD(in mg/l)
DETECTION LIMIT	10	2
07-06-20	32	11
24-06-20	24	10
TLV	100	30



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NOISE LEVEL DATA

NAME OF AREA: CHANDRAPUR AREA **YEAR: 2020**
NAME OF PROJECT: BHATADI OC **MONTH: JUNE**

NEAR CHP: CBON1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	07-06-20	51.3
JUNE 2020	29-06-20	50.9
TLV		75

COLONY: CBON2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	07-06-20	47.1
JUNE 2020	29-06-20	44.3
TLV		55

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ENVIRONMENTAL MONITORING REPORT

CRC UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 2020



Environment Laboratory

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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE :	CCR UW1

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

TEST REPORT NO.	RIN/TR/JUNE-20/A32	DATE OF ISSUE	31.07.2020
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	CRC UG	SAMPLING PLAN : LQR 47	

MANAGER'S OFFICE MAHAKALI UG: CCRUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-06-20	96	62	30	22	<10
29-06-20	118	69	32	27	<10
TLV	600	300	60	120	120

CRC SUBSTATION/ FILTER PLANT: CCRUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-06-20	129	89	32	22	<10
29-06-20	120	78	27	20	<10
TLV	600	300	60	120	120

JATWARA MILK SCHEME: CCRUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-06-20	120	65	29	20	<10
29-06-20	112	60	24	18	<10
TLV	600	300	60	120	120

COLONY: CCRUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-06-20	135	95	29	26	<10
29-06-20	143	80	32	29	<10
TLV	200	100	60	80	80



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FUGITIVE DUST MONITORING DATA

CHP: CCRUF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM	PM10	PM _{2.5}
DETECTION LIMIT	5	5	2
06-06-20	160	80	30



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Test Report
Effluent water quality monitoring data

TEST REPORT NO.	RIN/TR/JUNE -20/W32	DATE OF ISSUE	31.07.2020
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	CRC UG	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE : CCURW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
05-06-20	7.18	34	28	<2
28-06-20	7.7	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: CRC UG

YEAR: 2020
MONTH: JUNE

CHP: CCRUN1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	06-06-20	53.1
JUNE 2020	28-06-20	52.4
TLV		75

COLONY: CCRUN2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	06-06-20	46.9
JUNE 2020	28-06-20	42.9
TLV		55

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ENVIRONMENTAL MONITORING REPORT

DRC UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 2020

Environment Laboratory

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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	FAN HOUSE 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/JUNE -20/A33	DATE OF ISSUE	31-07-20
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	DRC UG	SAMPLING PLAN :	LQR 47

PIT OFFICE-DRC- III UG: CDRUA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-06-20	102	56	34	28	<10
28-06-20	117	64	30	24	<10
TLV	600	300	60	120	120

NEHRU NAGAR/ SUBSTATION: CDRUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-06-20	137	93	28	26	<10
28-06-20	149	80	32	28	<10
TLV	600	300	60	120	120

DRC- V COLONY: CDRUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-06-20	92	49	26	24	<10
28-06-20	88	40	24	20	<10
TLV	200	100	60	80	80

PIT OFFICE DRC-IV: CDRUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-06-20	180	110	40	32	11
28-06-20	170	90	36	28	<10
TLV	200	100	60	80	80



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FUGITIVE DUST MONITORING DATA

COAL BUNKER: CDRUF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM	PM10	PM _{2.5}
DETECTION LIMIT	5	5	2
05-06-20	164	84	33



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Test Report
Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/W33	DATE OF ISSUE	31-07-20
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	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
04-06-20	7.22	32	40	<2
27-06-20	7.1	36	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: JUNE**

FAN HOUSE DRC- III UG: CDRUN1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	05-06-20	68.8
JUNE 2020	27-06-20	67.8
TLV		75

DURGAPUR COLONY: CDRUN2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	09-06-20	45.2
JUNE 2020	22-06-20	44.1
TLV		55

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ENVIRONMENTAL MONITORING REPORT

DURGAPUR OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 2020

Environment Laboratory

CMPDI

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

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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/JUNE-20/A25	DATE OF ISSUE	31.07.20
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	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
10-06-20	154	96	40	30	10
23-06-20	167	100	42	32	11
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
10-06-20	119	75	35	26	<10
23-06-20	105	70	30	24	<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
09-06-20	118	60	20	14	<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
10-06-20	189	100	36	32	11
23-06-20	173	94	30	24	<10
TLV	200	100	60	80	80



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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/W25	DATE OF ISSUE	31-07-20
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	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
10-06-20	4.26	28	32	<2
22-06-20	3.96	24	36	<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
10-06-20	4.84	20	36	<2
22-06-20	4.56	26	32	<2
TLV	5.5 - 9.0	100	250	10

WETP DISCHARGE: CDOW3				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
10-06-20	7.3	24	36	<2
22-06-20	7.2	28	32	<2
TLV	5.5 - 9.0	100	250	10

STP DISCHARGE: CDOW4		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS(in mg/l)	BOD(in mg/l)
DETECTION LIMIT	10	2
10-06-20	28	12
22-06-20	34	13
TLV	100	30



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JUNE

CHP: CDON1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	09-06-20	51.1
JUNE 2020	22-06-20	50.3
TLV		75

DURGAPUR COLONY: CDON2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	09-06-20	45.2
JUNE 2020	22-06-20	44.1
TLV		50

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ENVIRONMENTAL MONITORING REPORT

HLP OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 2020

Environment Laboratory

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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/JUNE-20/A28	DATE OF ISSUE	31.07.2020
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
04-06-20	80	50	24	19	<10
25-06-20	92	59	29	24	<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
04-06-20	155	99	39	30	12
25-06-20	169	87	34	26	<10
TLV	600	300	60	120	120

MANA VILLAGE : CHOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-06-20	90	54	31	28	<10
24-06-20	85	50	26	20	<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
04-06-20	100	56	22	20	<10
25-06-20	89	50	22	16	<10
TLV	200	100	60	80	80


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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/W28	DATE OF ISSUE	31.07.2020
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
03-06-20	7.53	28	24	<2
24-06-20	7.31	22	28	<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: JUNE

CHP: CHON1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	03-06-20	52.1
JUNE 2020	24-06-20	50.2
TLV		75

COLONY: CHON2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	03-06-20	47.6
JUNE 2020	24-06-20	45.4
TLV		55

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ENVIRONMENTAL MONITORING REPORT

HLP I & III UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 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

TEST REPORT NO.	RIN/TR/JUNE-20/A27	DATE OF ISSUE	31.07.2020
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 µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-06-20	125	82	29	17	<10
23-06-20	130	84	26	19	<10
TLV	600	300	60	120	120

PIT OFFICE - HLC-I INCLINE: CHUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-06-20	130	89	32	22	<10
24-06-20	122	74	27	20	<10
TLV	600	300	60	120	120

HLC-III COLONY : CHUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-06-20	99	74	32	27	<10
25-06-20	115	64	30	24	<10
TLV	200	100	60	80	80

RAJIV GANDHI ENGG. COLLEGE: CHUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-06-20	145	95	37	29	<10
26-06-20	135	84	36	20	<10
TLV	200	100	60	80	80



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Test Report
Effluent water quality monitoring data

TEST REPORT NO.	RIN/TR/JUNE-20/W27	DATE OF ISSUE	31.07.2020
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
03-06-20	7.32	36	44	<2
24-06-20	6.78	32	40	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

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

FAN HOUSE - I UG: CHUN1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	02-06-20	67.2
JUNE 2020	22-06-20	68.1
TLV		75

COLONY: CHUN2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	02-06-20	44.4
JUNE 2020	23-06-20	43.3
TLV		55

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ENVIRONMENTAL MONITORING REPORT

MAHAKALI UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 2020



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INTRODUCTION

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

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

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/JUNE-20/A31	DATE OF ISSUE	31.07.2020
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
07-06-20	96	62	30	22	<10
29-06-20	118	69	32	27	<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
06-06-20	129	89	32	22	<10
29-06-20	120	78	27	20	<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
07-06-20	120	65	29	20	<10
29-06-20	112	60	24	18	<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
07-06-20	135	95	29	26	<10
29-06-20	143	80	32	29	<10
TLV	200	100	60	80	80

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FUGITIVE DUST MONITORING DATA

COAL BUNKER: CMUF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
07-06-20	174	90	35



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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/W31	DATE OF ISSUE	31.07.2020
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
06-06-20	7.15	20	36	<2
28-06-20	6.98	18	24	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JUNE

FAN HOUSE: CMUN1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	06-06-20	67.4
JUNE 2020	28-06-20	69.2
TLV		75

COLONY: CMUN2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	06-06-20	45.1
JUNE 2020	28-06-20	42.8
TLV		55

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ENVIRONMENTAL MONITORING REPORT

MANA UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 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/JUNE-20/A30	DATE OF ISSUE	31.07.2020
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
03-06-20	115	84	30	24	<10
24-06-20	127	92	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
03-06-20	110	79	34	20	<10
24-06-20	125	86	36	18	<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
04-06-20	100	56	22	20	<10
25-06-20	89	50	22	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
03-06-20	90	54	31	28	<10
24-06-20	85	50	26	20	<10
TLV	200	100	60	80	80



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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/W30	DATE OF ISSUE	31.07.2020
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
02-06-20	7.2	26	32	<2
23-06-20	7.37	22	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: JUNE**

FAN HOUSE: CMUN1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	02-06-20	70.3
JUNE 2020	23-06-20	68.4
TLV		75

COLONY (HLP OC): CMUN2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	03-06-20	47.6
JUNE 2020	24-06-20	45.4
TLV		55

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ENVIRONMENTAL MONITORING REPORT

NANDGAON UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 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/JUNE-20/A29	DATE OF ISSUE	31.07.2020
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
04-06-20	80	50	24	19	<10
25-06-20	92	59	29	24	<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
03-06-20	110	79	34	20	<10
24-06-20	125	86	36	18	<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
03-06-20	90	54	31	28	<10
24-06-20	85	50	26	20	<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
04-06-20	100	56	22	20	<10
25-06-20	89	50	22	16	<10
TLV	200	100	60	80	80



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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/W29	DATE OF ISSUE	31.07.2020
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
03-06-20	7.43	24	32	<2
24-06-20	7.56	20	24	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

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

FAN HOUSE: CNUN1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	03-06-20	69.5
JUNE 2020	24-06-20	69.3
TLV		75

COLONY HLP OC: CNUN2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	03-06-20	47.6
JUNE 2020	24-06-20	45.4
TLV		55

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ENVIRONMENTAL MONITORING REPORT

PADMAPUR OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 2020

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INTRODUCTION

Padmapur 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 Erai river, (which flows to the west of the project) and Motaghatnalla, a seasonal tributary of Erai river, (which flows across the central part of the leasehold area of the project). Climate of the area is dry to moist tropical, temperature rising to a maximum of 48oC. during summer and falling to a minimum of 10oC during winter. Average annual rainfall is about 1200mm. The above-mentioned industries viz; STPS and MES are likely to contribute in increasing the pollution load of area. Roadway dust is also causing lot of pollution in village area.

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

TEST REPORT NO.	RIN/TR/JUNE-20/A26	DATE OF ISSUE	31.07.2020
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 $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-06-20	118	60	20	14	<10
TLV	600	300	60	120	120

WARWAT VILLAGE: CPOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-06-20	123	65	35	29	<10
TLV	200	100	60	80	80

KITADI VILLAGE : CPOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-06-20	97	55	22	12	<10
TLV	200	100	60	80	80

VICHODA RAYATWARI VILLAGE: CPOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-06-20	142	79	39	34	<10
TLV	200	100	60	80	80


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Test Report

Effluent water quality monitoring data

TEST REPORT NO.	RIN/TR/JUNE-20/W26	DATE OF ISSUE	31.07.2020
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
08-06-20	7.29	26	40	<2
24-06-20	7.84	36	44	<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
08-06-20	7.5	30	36	<2
27-06-20	7.66	32	20	<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: JUNE

CHP: CPON1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	03-06-20	50.1
JUNE 2020	28-06-20	51.4
TLV		75

DURGAPUR COLONY: CPON2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	09-06-20	45.2
JUNE 2020	22-06-20	44.1
TLV		55

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ENVIRONMENTAL MONITORING REPORT

JUNA KUNADA OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 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/JUNE-20/A46	DATE OF ISSUE	31.07.2020
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
13-06-20	86	58	26	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
12-06-20	70	44	24	14	<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
12-06-20	78	50	32	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
12-06-20	76	40	26	18	<10
TLV	200	100	60	80	80



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JUNE

MANAGER OFFICE: MJON1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	12-06-20	45.3
TLV		75

EKTA NAGAR COLONY: MJON2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	12-06-20	43.3
TLV		55

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ENVIRONMENTAL MONITORING REPORT

NEW MAJRI-II (A)OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 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 pollution.

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/JUNE-20/A42	DATE OF ISSUE	31.07.2020
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
04-06-20	62	40	22	16	10
18-06-20	74	46	26	12	<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
04-06-20	90	62	20	14	<10
18-06-20	84	52	22	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
04-06-20	55	42	18	12	<10
18-06-20	50	32	20	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
04-06-20	74	42	14	10	<10
06-06-20	76	50	16	13	<10
12-06-20	82	56	20	8	<10
13-06-20	74	50	22	10	<10
18-06-20	68	36	12	12	<10
19-06-20	82	48	14	10	<10
TLV	200	100	60	80	80



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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/W42	DATE OF ISSUE	31.07.2020
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	MAJRI AREA	SAMPLING METHOD : LSOP 5	
NAME OF PROJECT	NEW MAJRI-II (A)OC	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: MMOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH		COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
03-06-20	7.32	54	32	<2
17-06-20	7.1	62	40	<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
03-06-20	8.2	40	44	<2
18-06-20	8.06	54	52	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

NAME OF AREA: MAJRI AREA **YEAR: 2020**
NAME OF PROJECT: NEW MAJRI-II (A)OC **MONTH: JUNE**

FIELD MAIN.SHED: MMON1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	03-06-20	54.8
JUNE 2020	17-06-20	53.8
TLV		75

KUCHNA COLONY: MMON2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	03-06-20	43.2
JUNE 2020	17-06-20	42.2
TLV		55

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ENVIRONMENTAL MONITORING REPORT

NEW MAJRI-UG TO OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 2020

Environment Laboratory

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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	PATALA MAGAZINE:	MMUA1
2	MANAGER OFFICE UG TO OC:	MMUA2
3	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/JUNE-20/A43	DATE OF ISSUE	31.07.2020
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
04-06-20	90	62	20	14	<10
18-06-20	84	52	22	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
06-06-20	58	36	24	10	<10
19-06-20	70	48	30	14	<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
06-06-20	80	52	26	12	<10
19-06-20	92	60	32	16	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
06-06-20	46	34	20	14	<10
19-06-20	60	42	26	12	<10
TLV	600	300	60	120	120



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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/W43	DATE OF ISSUE	31.07.2020
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	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
03-06-20	7.74	42	36	<2
17-06-20	7.58	38	44	<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
05-06-20	8.2	48	52	<2
18-06-20	8.11	46	40	<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: JUNE**

FAN HOUSE - MAJRI: MMUN1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	05-06-20	55.3
JUNE 2020	17-06-20	54.2
TLV		75

COLONY NAGLON COLONY: MMUN2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	05-06-20	43.4
JUNE 2020	18-06-20	42.9
TLV		55

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ENVIRONMENTAL MONITORING REPORT

TELWASA OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 2020

Environment Laboratory

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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/JUNE-20/A43	DATE OF ISSUE	31.07.2020
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 µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-06-20	84	60	22	14	<10
TLV	600	300	60	120	120

SAM OFFICE: MTOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
13-06-20	98	52	28	20	<10
TLV	600	300	60	120	120

CHARGAON VILLAGE: MTOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT		5	2	6	10
07-06-20	62	40	34	10	<10
20-06-20	74	48	32	14	<10
TLV	200	100	60	80	80

EKTA NAGAR COLONY: MTOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-06-20	78	50	32	12	<10
TLV	200	100	60	80	80



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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/W43	DATE OF ISSUE	31.07.2020
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	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
12-06-20	30	8
19-06-20	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: JUNE

NEAR PIT OFFICE: MTON1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	12-06-20	51.2
TLV		75

EKTA NAGAR COLONY: MTON2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	12-06-20	43.3
TLV		55

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ENVIRONMENTAL MONITORING REPORT

YEKONA I & II OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 2020

Environment Laboratory

CMPDI

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

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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/JUNE-20/A48	DATE OF ISSUE	31.07.2020
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
07-06-20	152	90	28	20	10
20-06-20	140	82	22	16	12
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
07-06-20	104	68	22	14	<10
20-06-20	110	76	26	12	<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
07-06-20	80	48	24	18	<10
20-06-20	88	52	28	20	<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
08-06-20	86	52	22	10	<10
21-06-20	80	48	24	12	<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
08-06-20	78	46	18	16	<10
21-06-20	84	50	22	20	<10
TLV	200	100	60	80	80


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Test Report
Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/W48	DATE OF ISSUE	31.07.2020
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	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
06-06-20	8.3	36	40	<2
19-06-20	8.3	30	32	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

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

PIT OFFICE: MYON1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	06-06-20	55.1
JUNE 2020	19-06-20	54.3
TLV		55

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ENVIRONMENTAL MONITORING REPORT

ADASA UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE-2020

Environment Laboratory

CMPDI

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

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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/JUNE-20/A5	DATE OF ISSUE	31.07.2020
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 µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
02-06-20	96	52	38	23	11
26-06-20	102	55	32	20	12
TLV	600	300	60	120	120

AT PATHAKHEDI GP OFFICE : NAUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
02-06-20	76	51	32	21	12
26-06-20	82	49	34	19	10
TLV	200	100	60	80	80

COLONY WATER FILTER PLANT : NAUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-06-20	66	46	14	9	<10
27-06-20	72	48	16	10	<10
TLV	200	100	60	80	80

KOTODI VILLAGE : NAUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
02-06-20	68	48	16	11	<10
27-06-20	74	50	18	9	<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: ADASA UG

YEAR: 2020
MONTH: JUNE

FAN HOUSE: NAUN1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	14-06-20	64.7
JUNE 2020	25-06-20	68.7
TLV		75

MANAGER OFFICE: NAUN2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	14-06-20	55.4
JUNE 2020	25-06-20	55.2
TLV		75

COLONY (SAONER): NAUN3		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	14-06-20	42.3
JUNE 2020	25-06-20	42.6
TLV		55

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ENVIRONMENTAL MONITORING REPORT

BHANEGAON OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 2020

Environment Laboratory

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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/A9	DATE OF ISSUE	31.07.2020
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 MANGER OFFICE: NBOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-06-20	178	132	47	23	14
30-06-20	182	136	42	20	11
TLV	600	300	60	120	120

BINA SANGAM TEMPLE: NBOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-06-20	58	32	18	10	<10
30-06-20	62	34	22	11	<10
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
14-06-20	74	42	22	13	<10
25-06-20	82	46	26	15	<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
14-06-20	72	47	25	18	<10
30-06-20	76	51	28	16	<10
TLV	200	100	60	80	80

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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/W9	DATE OF ISSUE	31.07.2020
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
15-06-20	8.15	22	32	<2
28-06-20	8.03	14	24	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JUNE

CONTRACTOR CAMP: NBON1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	12-06-20	55.7
JUNE 2020	28-06-20	55.2
TLV		75

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ENVIRONMENTAL MONITORING REPORT

GONDEGAON OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 2020

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INTRODUCTION

The Gondegaon opencast project is located in the Nagpur district of Maharashtra state and is administered by Nagpur Area of Western Coalfields Limited. Kanhan river acts as a main drainage channel of the area. The climate of the area is tropical.

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	GHATRONHA 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

TEST REPORT NO.	RIN/TR/JUNE-20/A6	DATE OF ISSUE	31.07.2020
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
12-06-20	176	132	43	25	13
17-06-20	182	136	52	27	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
13-06-20	62	38	17	11	<10
17-06-20	68	42	19	10	<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
13-06-20	58	42	15	10	<10
17-06-20	62	46	17	9	<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
13-06-20	68	38	17	11	<10
17-06-20	74	42	19	12	<10
TLV	200	100	60	80	80

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FUGITIVE DUST MONITORING DATA

GONDEGAON OC NGOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM	PM10	PM _{2.5}
DETECTION LIMIT	5	5	2
13-06-20	212	166	52



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Test Report

Effluent water quality monitoring data

TEST REPORT NO.	RIN/TR/JUNE-20/W6	DATE OF ISSUE	31.07.2020
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
12-06-20	7.53	22	32	<2
29-06-20	7.19	18	36	<2
TLV	5.5 - 9.0	100	250	10

ETP DISCHARGE: NGOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
14-06-20	7.3	18	28	<2
29-06-20	6.92	26	32	<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: JUNE**

CHP: NGON1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	12-06-20	66.2
JUNE 2020	16-06-20	65.6
TLV		75

COLONY: NGON2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	12-06-20	42.3
JUNE 2020	16-06-20	42.2
TLV		55

GHATROHNA VILLAGE NGON3		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	12-06-20	42.6
JUNE 2020	16-06-20	41.6
TLV		55

JUNI KAMPTEE VILLAGE: NGON4		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	11-06-20	42.4
JUNE 2020	16-06-20	42.5
TLV		55

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ENVIRONMENTAL MONITORING REPORT

INDER UG TO OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 2020

Environment Laboratory

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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/JUNE-20/A8	DATE OF ISSUE	31.07.2020
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
11-06-20	166	128	45	29	13
17-06-20	172	132	47	27	14
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
01-06-20	118	72	42	27	12
17-06-20	122	74	35	24	12
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
12-06-20	98	74	32	17	10
25-06-20	106	78	36	19	<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
12-06-20	78	58	27	13	<10
17-06-20	84	62	29	12	<10
TLV	200	100	60	80	80

J. Shrivastava

Deepanshu Sahu

DEEPANSHU SAHU
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FUGITIVE DUST MONITORING DATA

WEIGHT BRIDGE : NIOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM	PM10	PM _{2.5}
DETECTION LIMIT	5	5	2
11-06-20	228	168	57

J. Shrivastava

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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/W8	DATE OF ISSUE	31.07.2020
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
10-06-20	7.79	14	24	<2
16-06-20	7.9	24	32	<2
TLV	5.5 - 9.0	100	250	10



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JUNE

R.C. OFFICE: NION1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	11-06-20	54.6
JUNE 2020	16-06-20	54.2
TLV		75

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ENVIRONMENTAL MONITORING REPORT

KAMPTEE DEEP OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 2020

Environment Laboratory

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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/JUNE-20/A7	DATE OF ISSUE	31.07.2020
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 $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-06-20	117	68	38	23	11
17-06-20	126	72	32	26	13
TLV	600	300	60	120	120

JUNI KAMPTEE VILLAGE: NKCA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-06-20	58	31	17	10	<10
25-06-20	62	36	19	12	<10
TLV	600	300	60	120	120

COLONY WATER TREATMENT PALNT: NKCA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-06-20	98	74	32	17	10
25-06-20	106	78	36	19	<10
TLV	200	100	60	80	80

G.P. OFFICE KANDRI VILLAGE: NKCA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-06-20	78	58	27	13	<10
17-06-20	84	62	29	12	<10
TLV	200	100	60	80	80

J. Shan

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Deepanshu Sahu

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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/W7	DATE OF ISSUE	31.07.2020
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
11-06-20	7.64	26	36	<2
24-06-20	7.63	16	28	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

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

CHP: NKC1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	11-06-20	66.2
JUNE 2020	24-06-20	66.7
TLV		75

COLONY: NKC2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	11-06-20	42.6
JUNE 2020	24-06-20	41.6
TLV		55

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ENVIRONMENTAL MONITORING REPORT

PATANSAONGI UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 2020



Environment Laboratory

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**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/JUNE-20/A3	DATE OF ISSUE	31.07.2020
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	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
02-06-20	110	55	26	17	11
26-06-20	112	57	28	18	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
12-06-20	52	32	17	9	<10
26-06-20	56	36	19	10	<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
12-06-20	57	35	17	11	<10
27-06-20	65	39	19	10	<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
12-06-20	55	38	15	10	<10
26-06-20	60	42	17	11	<10
TLV	200	100	60	80	80


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Test Report
Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/W3	DATE OF ISSUE	31.07.2020
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	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
01-06-20	8.16	26	36	<2
26-06-20	7.39	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: PATANSAONGI UG

YEAR: 2020
MONTH: JUNE

FAN HOUSE: NPTUN1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	14-06-20	66.4
JUNE 2020	25-06-20	66.2
TLV		75

COLONY: NPTUN2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	14-06-20	42.6
JUNE 2020	25-06-20	42.4
TLV		55

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ENVIRONMENTAL MONITORING REPORT

PIPLA UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 2020

Environment Laboratory

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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/A2	DATE OF ISSUE	31.07.2020
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	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
12-06-20	118	66	37	26	13
28-06-20	122	72	32	24	12
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
11-06-20	92	47	31	18	10
28-06-20	98	52	33	22	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
11-06-20	77	55	18	12	<10
28-06-20	82	59	19	13	<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
11-06-20	62	32	13	11	<10
25-06-20	68	36	15	10	<10
TLV	200	100	60	80	80

J. Shan
SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JUNE

FAN HOUSE: NPUN1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	15-06-20	69.5
JUNE 2020	26-06-20	68.6
TLV		75

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ENVIRONMENTAL MONITORING REPORT

SAONER UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 2020

Environment Laboratory

CMPDI

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

AN ISO 9001:2015 COMPANY

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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Fugitive Dust Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/A4	DATE OF ISSUE	31.07.2020
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 µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-06-20	82	45	31	22	<10
27-06-20	86	48	28	18	<10
TLV	600	300	60	120	120

C.M. OFFICE- SAONER- II UG : NSNUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-06-20	86	47	33	20	<10
27-06-20	92	52	31	21	<10
TLV	600	300	60	120	120

COLONY WATER FILTER PLANT: NSNUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
03-06-20	66	46	14	9	<10
27-06-20	72	48	16	10	<10
TLV	200	100	60	80	80

KOTODI VILLAGE : NSNUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
02-06-20	68	48	16	11	<10
27-06-20	74	50	18	9	<10
TLV	200	100	60	80	80

J. Shan
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Deepanshu Sahu
DEEPANSHU SAHU
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Test Report

Effluent water quality monitoring data


TSET REPORT NO.	RIN/TR/JUNE-20/W4	DATE OF ISSUE	31.07.2020
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
02-06-20	8.09	18	28	<2
26-06-20	8.03	14	20	<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
02-06-20	7.97	24	32	<2
26-06-20	7.95	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
02-06-20	8.06	14	24	<2
26-06-20	8.04	16	20	<2
TLV	5.5 - 9.0	100	250	10


SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JUNE

FAN HOUSE I UG: NSNUN1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	15-06-20	69.5
JUNE 2020	26-06-20	69.2
TLV		75

FAN HOUSE II UG: NSNUN2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	15-06-20	69.6
JUNE 2020	26-06-20	69.3
TLV		75

FAN HOUSE III UG: NSNUN3		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	15-06-20	69.2
JUNE 2020	26-06-20	69.6
TLV		75

COLONY: NSNUN4		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	15-06-20	42.3
JUNE 2020	26-06-20	42.6
TLV		55

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ENVIRONMENTAL MONITORING REPORT

SILEWARA UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 2020

Environment Laboratory

CMPDI

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

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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/A1	DATE OF ISSUE	31.07.2020
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 µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-06-20	105	56	32	21	11
28-06-20	110	62	34	24	12
TLV	600	300	60	120	120

V.T.C. SILEWARA: NSUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-06-20	118	58	34	22	12
28-06-20	125	61	36	26	13
TLV	600	300	60	120	120

MANDIR NEAR KANHAN RIVER: NSUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-06-20	86	45	21	13	<10
29-06-20	92	52	24	11	<10
TLV	200	100	60	80	80

CHANKAPUR PUMP HOUSE/ COLONY: NSUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-06-20	72	48	18	12	<10
29-06-20	78	47	20	10	<10
TLV	200	100	60	80	80

J. Shray
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DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/W1	DATE OF ISSUE	31.07.2020
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
10-06-20	7.74	26	36	<2
28-06-20	7.86	28	32	<2
TLV	5.5 - 9.0	100	250	10


SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JUNE

FAN HOUSE: NSUN1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	15-06-20	69.7
JUNE 2020	27-06-20	69.2
TLV		75

COLONY: NSUN2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	15-06-20	42.4
JUNE 2020	27-06-20	41.2
TLV		55

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ENVIRONMENTAL MONITORING REPORT

SINGORI OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE-20

Environment Laboratory

CMPDI

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

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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/JUNE-20/A10	DATE OF ISSUE	31.07.2020
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
15-06-20	78	54	26	18	<10
30-06-20	82	56	24	16	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
15-06-20	76	47	16	10	<10
29-06-20	84	52	18	9	<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
15-06-20	68	51	27	14	<10
29-06-20	76	54	29	15	<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
14-06-20	72	47	25	18	<10
30-06-20	76	51	28	16	<10
TLV	200	100	60	80	80

J. Shrivastava

SCIENTIFIC ASSISTANT

Deepanshu Sahu

DEEPANSHU SAHU
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FUGITIVE DUST MONITORING DATA

NEAR COAL STOCK YARD: NSOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
15-06-20	234	177	58

WEIGHT BRIDGE: NSOF2			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
15-06-20	218	156	55

J. Shrivastava

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Deepanshu Sahu

DEEPANSHU SAHU
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Test Report
Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/A10	DATE OF ISSUE	31.07.2020
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
15-06-20	7.74	26	36	<2
28-06-20	8.1	16	28	<2
TLV	5.5 - 9.0	100	250	10

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

YEAR: 2020
MONTH: JUNE

CONTRACTOR CAMP: NSON1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	13-06-20	54.4
JUNE 2020	28-06-20	55.2
TLV		75

SOHOLI VILLAGE : NSON2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	13-06-20	41.5
JUNE 2020	28-06-20	42.5
TLV		55

DRILLING SITE : NSON3		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	13-06-20	54.2
JUNE 2020	28-06-20	54.5
TLV		55

DOSING SITE : NSON4		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	13-06-20	53.4
JUNE 2020	28-06-20	53.6
TLV		55

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ENVIRONMENTAL MONITORING REPORT

DINESH OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 2020

Environment Laboratory

CMPDI

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

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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/JUNE-20/A14	DATE OF ISSUE	31.07.2020
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
03-06-20	124	92	26	20	<10
21-06-20	185	137	38	30	<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
03-06-20	174	129	36	28	<10
21-06-20	169	125	35	28	<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
03-06-20	182	135	38	30	<10
21-06-20	107	79	22	17	<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/JUNE-20/W14	DATE OF ISSUE	31.07.2020
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
03.06.2020	7.47	20	32	BDL
20.06.2020	7.68	24	32	BDL
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
20.06.2020	7.36	24	34	BDL
TLV	5.5 - 9.0	100	250	10

R. Annapurna

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DEEPANSHU SAHU
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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JUNE

NEAR PIT OFFICE: UM30N1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	11.06.2020	56.7
JUNE 2020	17.06.2020	56.4
TLV		75

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ENVIRONMENTAL MONITORING REPORT

GOKUL OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 2020

Environment Laboratory

CMPDI

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

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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/JUNE-20/A14	DATE OF ISSUE	31.07.2020
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
04-06-20	194	144	40	32	10
19-06-20	254	188	53	41	12
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
04-06-20	96	71	20	16	<10
05-06-20	103	76	21	17	<10
10-06-20	108	80	22	18	<10
09-06-20	111	82	23	18	<10
19-06-20	112	83	23	18	<10
20-06-20	120	89	25	20	<10
23-06-20	116	86	24	19	<10
24-06-20	113	84	24	18	<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
04-06-20	99	73	20	16	<10
05-06-20	103	76	21	17	<10
10-06-20	108	80	22	18	<10
09-06-20	105	78	22	17	<10
19-06-20	93	69	19	15	<10
20-06-20	96	71	20	16	<10
23-06-20	104	77	22	17	<10
24-06-20	101	75	21	17	<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
04-06-20	81	60	17	13	<10
05-06-20	92	68	19	15	<10
10-06-20	97	72	20	16	<10
09-06-20	101	75	21	17	<10
19-06-20	109	81	23	18	<10
20-06-20	108	80	22	18	<10
23-06-20	115	85	24	19	<10
24-06-20	111	82	23	18	<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/JUNE-20/W14	DATE OF ISSUE	31.07.2020
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
03-06-20	7.67	22	36	BDL
18-06-20	7.87	18	28	BDL
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
03-06-20	7.16	28	40	BDL
18-06-20	7.54	30	44	BDL
TLV	5.5 - 9.0	100	250	10

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Deepanshu Sahu

DEEPANSHU SAHU
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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JUNE

CONTRACTOR CAMP: UGON1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	11-06-20	54.2
JUNE 2020	17-06-20	54.1
TLV		75

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ENVIRONMENTAL MONITORING REPORT

MAKARDHOKRA- II OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE - 2020

Environment Laboratory

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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 may 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

TEST REPORT NO.	RIN/TR/JUNE-20/A12	DATE OF ISSUE	31.07.2020
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
06-06-20	213	158	44	35	10
21-06-20	182	135	38	30	<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
02-06-20	112	83	25	18	<10
18-06-20	197	146	41	32	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
02-06-20	193	143	40	31	<10
18-06-20	110	74	21	16	<10
TLV	200	100	60	80	80

R. Annapurna

SCIENTIFIC ASSISTANT

DEEPANSHU SAHU
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Test Report
Effluent water quality monitoring data

TEST REPORT NO.	RIN/TR/JUNE-20/W12	DATE OF ISSUE	31.07.2020
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	MAKARDHOKRA- II OC	SAMPLING PLAN : LQR 47	

ETP DISCHARGE: UMOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
04.06.2020	6.83	34	48	BDL
20.06.2020	7.2	30	44	BDL
TLV	5.5 - 9.0	100	250	10

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NOISE LEVEL DATA

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

NEAR PIT OFFICE: UMON1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	04-06-20	56.9
JUNE 2020	20-06-20	55.6
TLV		75

COLONY (UMRER OC): UMON2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	05-06-20	42.2
JUNE 2020	21-06-20	42.3
TLV		55

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ENVIRONMENTAL MONITORING REPORT

MAKARDHOKHRA- I OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 2020

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INTRODUCTION

The Makardhokra- I 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. May is the hottest month and the temperature rises to 47°C. December is the coldest month with temperature falling to 7°C. Average annual rainfall in this area is around 1200 mm.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	PIT OFFICE:	UM1OA1
2	KALMANA VILLAGE:	UM1OA2
3	KHURSAPAR VILLAGE :	UM1OA3
4	SIRPUR VILLAGE :	UM1OA4

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	UM1OW1

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NEAR PIT OFFICE:	UM1ON1

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

TEST REPORT NO.	RIN/TR/JUNE-20/A13	DATE OF ISSUE	31.07.2020
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
02-06-20	186	138	39	30	<10
18-06-20	212	157	44	35	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
03-06-20	205	152	43	33	10
20-06-20	117	87	24	19	<10
TLV	200	100	60	80	80

R. Annapurna

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DEEPANSHU SAHU
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Test Report

Effluent water quality monitoring data

TEST REPORT NO.	RIN/TR/JUNE-20/W13	DATE OF ISSUE	31.07.2020
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
04-06-20	7.48	20	32	BDL
19-06-20	7.85	18	28	BDL
TLV	5.5 - 9.0	100	250	10

ETP 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
03-06-20	6.85	30	44	BDL
TLV	5.5 - 9.0	100	250	10

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: MAKARDHOKHRA- I OC MONTH: JUNE

NEAR PIT OFFICE: UM10N1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	04-06-20	55.6
JUNE 2020	20-06-20	54.7
TLV		75

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ENVIRONMENTAL MONITORING REPORT

MURPAR UG

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 2020

Environment Laboratory

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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 may 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/JUNE-20/A15	DATE OF ISSUE	31.07.2020
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 $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-06-20	198	147	41	32	10
17-06-20	207	153	43	34	10
TLV	600	300	60	120	120

NEAR MAGAZINE BUILDING: UMUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-06-20	205	152	43	33	10
17-06-20	189	140	39	31	<10
TLV	600	300	60	120	120

COLONY : UMUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-06-20	124	92	26	20	<10
17-06-20	130	96	27	21	<10
TLV	200	100	60	80	80

MORPAR VILLAGE : UMUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-06-20	99	73	20	16	<10
17-06-20	107	79	22	17	<10
TLV	200	100	60	80	80

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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/W15	DATE OF ISSUE	31.07.2020
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
04-06-20	7.97	30	56	BDL
17-06-20	7.9	28	40	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: JUNE

FAN HOUSE: UMUN1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	04-06-20	65.2
JUNE 2020	16-06-20	69.6
TLV		75

COLONY: UMUN2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	04-06-20	43.1
JUNE 2020	16-06-20	42.4
TLV		55

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ENVIRONMENTAL MONITORING REPORT

UMRER OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 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	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/JUNE-20/A11	DATE OF ISSUE	31.07.2020
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	UMRER OC	SAMPLING PLAN : LQR 47	

UMRER MANAGER OFFICE: UUOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-06-20	219	132	45	36	11
22-06-20	235	174	49	38	11
TLV	600	300	60	120	120

NEAR WORKSHOP: UUOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-06-20	238	176	49	39	12
21-06-20	220	163	46	36	11
TLV	600	300	60	120	120

KANWA VILLAGE : UUOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
22-06-20	120	89	25	20	<10
TLV	600	300	60	120	120

NEAR PUMP HOUSE COLONY: UUOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
02-06-20	193	143	40	31	<10
18-06-20	100	74	21	16	<10
TLV	200	100	60	80	80

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Test Report
Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/W11	DATE OF ISSUE	31.07.2020
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
04-06-20	7.55	28	40	BDL
21-06-20	7.72	24	36	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
04-06-20	6.78	32	44	BDL
21-06-20	7.27	28	40	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
04-06-20	34	10.8
20-06-20	40	11.4
TLV	100	30

R. Annapurna

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JUNE

CHP: UJON1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	05-06-20	67.2
JUNE 2020	21-06-20	65.6
TLV		75

COLONY: UJON2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	05-06-20	42.2
JUNE 2020	21-06-20	42.3
TLV		55

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ENVIRONMENTAL MONITORING REPORT

GHUGUS OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 2020

Environment Laboratory

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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/JUNE-20/A38	DATE OF ISSUE	31.07.20
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	WANI AREA	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	GHUGUS OC	SAMPLING PLAN : LQR 47	

ACC PATCH NEAR ACC COLONY: WGOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-06-20	90	54	20	12	<10
TLV	600	300	60	120	120

SAM OFFICE: WGOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-06-20	64	48	20	14	<10
TLV	600	300	60	120	120

RAM NAGAR COLONY : WGOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-06-20	100	62	22	10	<10
TLV	200	100	60	80	80

GHUGUS VILLAGE (GP OFFICE): WGOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-06-20	120	72	24	10	<10
TLV	200	100	60	80	80



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FUGITIVE DUST MONITORING DATA

CHP: WGOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM	PM10	PM _{2.5}
DETECTION LIMIT	5	5	2
11-06-20	210	140	48



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NOISE LEVEL DATA

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

CHP: WGON1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	09.06.2020	64.6
TLV		75

COLONY: WGON2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	09.06.2020	43.9
TLV		55

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ENVIRONMENTAL MONITORING REPORT

KOLGAON OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 2020



Environment Laboratory

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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER OFFICE:	WKOA1
2	SAM OFFICE:	WKOA2
3	KOLGAON VILLAGE :	WKOA3
4	AILSHNAGAR TOWNSHIP - FILTER 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/JUNE-20/A39	DATE OF ISSUE	31.07.2020
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
13-06-20	82	58	26	14	<10
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
14-06-20	100	72	20	10	<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
13-06-20	88	52	20	12	<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
14-06-20	96	78	26	16	10
TLV	200	100	60	80	80



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FUGITIVE DUST MONITORING DATA

W.BRIDGE WKOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
13-06-20	142	90	36



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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/W39	DATE OF ISSUE	31.07.2020
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
12-06-20	7.52	34	36	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JUNE

MANAGER OFFICE: WKON1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	12-06-20	55.7
TLV		75

COLONY (MUGOLI): WKON2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	13-06-20	43.5
TLV		55

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ENVIRONMENTAL MONITORING REPORT

MUGOLI OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 2020

Environment Laboratory

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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Fugitive Dust Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/A36	DATE OF ISSUE	31.07.2020
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 $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-06-20	102	74	30	14	<10
TLV	600	300	60	120	120

SAM OFFICE: WMOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-06-20	100	72	20	10	<10
TLV	600	300	60	120	120

KAILSHNAGAR TOWNSHIP FILTER PLANT : WMOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-06-20	96	78	26	16	10
TLV	200	100	60	80	80

TUBEWELL NEAR SAKHARA VILLAGE: WMOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
14-06-20	90	54	22	12	<10
TLV	200	100	60	80	80



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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/W36	DATE OF ISSUE	31.07.2020
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
13-06-20	7.28	48	44	<2
TLV	5.5 - 9.0	100	250	10

ETP DISCHARGE WMOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
13-06-20	6.86	50	52	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JUNE

CHP: WMON1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	13-06-20	64.8
TLV		75

COLONY: WMON2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	13-06-20	43.5
TLV		55

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ENVIRONMENTAL MONITORING REPORT

NAIGAON OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 2020

Environment Laboratory

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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/JUNE-20/A37	DATE OF ISSUE	31.07.2020
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
10-06-20	78	59	30	16	10
23-06-20	84	66	32	14	12
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
09-06-20	98	60	20	10	<10
23-06-20	90	52	18	12	<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
10-06-20	86	52	24	12	<10
23-06-20	78	46	20	10	<10
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
10-06-20	86	48	14	10	<10
TLV	200	100	60	80	80



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JUNE

CHP: WNGON1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	09-06-20	63.4
JUNE 2020	22-06-20	64.6
TLV		75

COLONY (GHUGUS): WNGON3		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	09-06-20	43.9
TLV		55

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ENVIRONMENTAL MONITORING REPORT

NILJAI DEEP OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 2020

Environment Laboratory

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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Fugitive Dust Monitoring locations:

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

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	WNOW1
2	ETP (NILJAI-S) TREATED WATER:	WNOW2
3	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/JUNE-20/A35	DATE OF ISSUE	31.07.2020
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
09-06-20	154	122	32	20	10
23-06-20	162	118	36	22	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
09-06-20	98	60	20	10	<10
23-06-20	90	52	18	12	<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
09-06-20	92	49	22	14	<10
22-06-20	86	52	26	12	<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
09-06-20	102	78	30	16	10
22-06-20	110	82	34	14	12
TLV	200	100	60	80	80



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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/W35	DATE OF ISSUE	31.07.2020
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
08-06-20	6.86	30	28	<2
21-06-20	6.83	26	28	<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
08-06-20	7.57	44	48	<2
21-06-20	7.65	50	44	<2
TLV	5.5 - 9.0	100	250	10

STP(DOMESTIC EFFLUENT) - TREATED WATER: WNOW3		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS(in mg/l)	BOD(in mg/l)
DETECTION LIMIT	10	2
08-06-20	38	10
21-06-20	58	14
TLV	100	30



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NOISE LEVEL DATA

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

CHP: WNON1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	08-06-20	63.9
JUNE 2020	21-06-20	63.5
TLV		75

CHP (S): WNON2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	08-06-20	64.7
JUNE 2020	21-06-20	64.9
TLV		75

COLONY: WNON3		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	08-06-20	43.5
JUNE 2020	21-06-20	44.6
TLV		55

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ENVIRONMENTAL MONITORING REPORT

PENGANGA OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 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 Wardhar river and Penganga river. The climate of this area is tropical. The above mentioned industries and the busy road traffic are also expected to contribute in increasing the pollution load of the area.

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Fugitive Dust Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/A40	DATE OF ISSUE	31.07.2020
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
12-06-20	72	52	28	14	10
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
12-06-20	96	62	30	22	12
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
12-06-20	70	46	22	10	<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
12-06-20	92	49	26	18	10
TLV	200	100	60	80	80



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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/W40	DATE OF ISSUE	31.07.2020
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
11-06-20	7.74	42	36	<2
TLV	5.5 - 9.0	100	250	10



SCIENTIFIC ASSISTANT


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NOISE LEVEL DATA

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

NEAR WORKSHOP: WPON1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	11-06-20	56.9
TLV		75

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ENVIRONMENTAL MONITORING REPORT

GHONSA OC

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 2020

Environment Laboratory

CMPDI

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

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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/JUNE-20/A55	DATE OF ISSUE	31.07.2020
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 µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-06-20	144	88	48	19	12
22-06-20	128	72	36	16	10
TLV	600	300	60	120	120

SAM OFFICE/ CANTEEN: 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
04-06-20	114	58	32	17	10
23-06-20	128	68	36	12	<10
TLV	600	300	60	120	120

GHONSA 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
09-06-20	116	66	36	18	12
22-06-20	132	76	40	20	14
TLV	200	100	60	80	80

GUEST HOUSE/ COLONY: 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
04-06-20	136	66	36	21	12
23-06-20	114	64	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/JUNE-20/W55	DATE OF ISSUE	31.07.2020
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
05.06.2020	7.18	20	28	BDL
21.06.2020	7.1	32	44	BDL
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JUNE

MANAGER OFFICE: WNGON1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	05.06.2020	55.9
JUNE 2020	21.06.2020	45.2
TLV		75

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ENVIRONMENTAL MONITORING REPORT

JUNAD OC

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 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	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/JUNE-20/A53	DATE OF ISSUE	31.07.2020
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 $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-06-20	142	76	42	16	12
21-06-20	148	88	44	14	10
TLV	600	300	60	120	120

BORGAON VILLAGE: WNJOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-06-20	134	80	38	17	10
21-06-20	140	82	40	20	16
TLV	200	100	60	80	80

BHALAR TOWNSHIP: WNJOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-06-20	116	70	36	18	12
21-06-20	124	72	34	16	14
TLV	200	100	60	80	80

UKNI VILLAGE: WNJOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-06-20	120	68	34	18	14
22-06-20	116	62	36	16	12
TLV	200	100	60	80	80



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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/W53	DATE OF ISSUE	31.07.2020
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
06-06-20	7.21	40	60	<2
20-06-20	7.26	36	52	<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
06-06-20	7.11	28	36	<2
20-06-20	7.32	18	24	<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: JUNE

MANAGER OFFICE: WNJON1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	07-06-20	56.5
JUNE 2020	20-06-20	55.9
TLV		75

BHALAR COLONY: WNJON2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	07-06-20	43.4
JUNE 2020	20-06-20	43.8
TLV		55

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ENVIRONMENTAL MONITORING REPORT

KOLARPIMPRI OC

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 2020

Environment Laboratory

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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/JUNE-20/A50	DATE OF ISSUE	31.07.2020
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	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 $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-06-20	82	40	24	15	10
TLV	600	300	60	120	120

REST SHELTER: WNKOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-06-20	124	66	36	18	12
23-06-20	128	70	40	18	16
TLV	600	300	60	120	120

PIMPRI VILLAGE: WNKOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-06-20	98	48	30	16	10
19-06-20	134	60	38	18	12
TLV	200	100	60	80	80

WATER FILTER PLANT PRAGATI NAGAR: WNKOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-06-20	104	64	28	12	10
20-06-20	114	68	30	16	12
TLV	200	100	60	80	80



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Test Report
Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/W50	DATE OF ISSUE	31.07.2020
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 9
NAME OF PROJECT	KOLARPIMPRI OC	SAMPLING PLAN	LQR 47

MINE WATER DISCHARGE: WNKOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	36	2
06-06-20	7.26	36	52	<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: KOLARPIMPRI OC **MONTH: JUNE**

CHP: WNKON1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	10-06-20	62.9
JUNE 2020	18-06-20	64.5
TLV		75

COLONY PRAGATI NAGAR: WNKON2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	04-06-20	42.9
JUNE 2020	19-06-202	43.7
TLV		55

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ENVIRONMENTAL MONITORING REPORT

KUMBHARKHANI UG

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 2020

Environment Laboratory

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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INTRODUCTION

Kumbarkhani UG Project is located in Wani Tahsil of Yeotmal district of Maharashtra State. It is administered by Wani North Area of Western Coalfields Limited. The project is located at a distance of nearly 18 km SW of Wani township. It is approachable from Wani by a metalled, motorable road (Wani – Patan road). The nearest railway station is Wani on Majri-Rajur branch line of Central Railway. Vidarbha river serves as the main drainage of the area during rainy season. The climate of this area is tropical with maximum and minimum temperature 48oC in summer and 10oC in winter respectively. The average annual rainfall is about 1200 mm. 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	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

TEST REPORT NO.	RIN/TR/JUNE-20/A54	DATE OF ISSUE	31.07.2020
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
06-06-20	78	42	28	13	<10
23-06-20	104	60	34	12	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
06-06-20	114	58	32	17	10
23-06-20	128	68	36	12	<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
06-06-20	136	66	36	21	12
23-06-20	114	64	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
09-06-20	116	66	36	18	12
22-06-20	132	76	40	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: JUNE**

FAN HOUSE: WNKUN1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	05-06-20	46.4
JUNE 2020	22-06-20	58.2
TLV		75

COLONY: WNKUN2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	05-06-20	43.6
JUNE 2020	22-06-20	40.2
TLV		55

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ENVIRONMENTAL MONITORING REPORT

PIMPALGAON OC

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 2020

Environment Laboratory

CMPDI

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

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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Fugitive Dust Monitoring locations:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/A51	DATE OF ISSUE	31.07.2020
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
07-06-20	152	94	48	21	14
21-06-20	160	98	50	22	14
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
05-06-20	124	68	34	16	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
05-06-20	104	64	28	12	10
20-06-20	114	68	30	16	12
TLV	200	100	60	80	80

BORGAON VILLAGE: WNPOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-06-20	134	80	38	17	10
21-06-20	140	82	40	20	16
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: JUNE**

CHP: WNPN1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	04-06-20	63.9
JUNE 2020	19-06-20	63.6
TLV		75

COLONY PRAGATI NAGAR: WNPN2			
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
JUNE 2020	04-06-20	42.9	
JUNE 2020	19-06-20	43.7	
TLV		55	

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ENVIRONMENTAL MONITORING REPORT

RAJUR UG

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 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/JUNE-20/A52	DATE OF ISSUE	31.07.2020
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 $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-06-20	148	84	48	19	10
22-06-20	156	82	44	12	10
TLV	600	300	60	120	120

SAM OFFICE: WNRUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-06-20	114	60	44	20	12
22-06-20	140	76	42	16	10
TLV	600	300	60	120	120

PIT OFFICE/ COLONY: WNRUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-06-20	122	74	42	18	10
21-06-20	126	58	32	16	10
TLV	600	300	60	120	120

HUTMENT: WNRUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-06-20	118	68	38	16	10
21-06-20	148	80	40	12	<10
TLV	200	100	60	80	80



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FUGITIVE DUST MONITORING DATA

W BRIDGE WNRUF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
09-06-20	158	90	50



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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/W52	DATE OF ISSUE	31.07.2020
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
07-06-20	6.94	28	40	BDL
20-06-20	7.16	24	32	BDL
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JUNE

FAN HOUSE: WNRUN1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	08-06-20	68.3
JUNE 2020	21-06-20	57.2
TLV		75

COLONY: WNRUN2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	08-06-20	43.2
JUNE 2020	21-06-20	41.9
TLV		55

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ENVIRONMENTAL MONITORING REPORT

UKNI OC

WANI NORTH

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE-2020

Environment Laboratory

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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	WORKSHOP PREMISES:	WNUOA1
2	BHALAR TOWNSHIP:	WNUOA2
3	UKNI VILLAGE:	WNUOA3
4	PIMPRI VILLAGE:	WNUOA4

Fugitive Dust Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	WEIGHT BRIDGE:	WNUOF1
2	CHP:	WNUOF2

Water Quality Monitoring location:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MINE WATER DISCHARGE:	WNUOW1
2	ETP (TREATED):	WNUOW2
3	STP DISCHARGE:	WNUOW3

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	CHP:	WNUON1
2	BHALAR COLONY:	WNUON2

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/A49	DATE OF ISSUE	31.07.2020
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
08-06-20	154	78	40	17	10
22-06-20	160	84	44	20	14
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
08-06-20	116	70	36	18	12
21-06-20	124	72	34	16	14
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
08-06-20	120	68	34	18	14
22-06-20	116	62	36	16	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
10-06-20	98	48	30	16	10
19-06-20	134	60	38	18	12
TLV	200	100	60	80	80



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Test Report
Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/W49	DATE OF ISSUE	31.07.2020
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
07-06-20	6.4	44	64	BDL
26-06-20	8.8	40	56	BDL
TLV	5.5 - 9.0	100	250	10

ETP (TREATED): WNUOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
07-06-20	7.1	24	32	BDL
26-06-20	7.15	28	36	BDL
TLV	5.5 - 9.0	100	250	10

STP DISCHARGE: WNUOW3		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS (in mg/l)	BOD (in mg/l)
DETECTION LIMIT	10	2
07-06-20	48	14
26-06-20	40	10
TLV	100	30



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JUNE

CHP: WNUON1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	07-06-20	64.7
JUNE 2020	20-06-20	63.9
TLV		75

BHALAR COLONY: WNUON2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	07-06-20	43.4
JUNE 2020	20-06-20	43.8
TLV		55

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ENVIRONMENTAL MONITORING REPORT

WANI RAILWAY SIDING

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 2020



Environment Laboratory

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INTRODUCTION

Wani Railway Siding 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.

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/JUNE-20/A56	DATE OF ISSUE	31.07.2020
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 µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-06-20	128	64	38	14	10
05-06-20	136	68	40	20	12
10-06-20	116	60	32	16	12
11-06-20	124	62	36	18	14
19-06-20	136	74	34	12	10
20-06-20	142	68	40	18	12
TLV	600	300	60	120	120

SHETHKARI DHANYA BAZAR : WNRS2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-06-20	100	58	26	12	10
05-06-20	126	70	42	16	12
10-06-20	132	74	44	18	14
11-06-20	92	56	28	12	10
19-06-20	148	74	44	16	12
20-06-20	110	58	34	12	10
TLV	200	100	60	80	80

RES.HOUSE VITTALWADI WANI: WNRS3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-06-20	100	60	32	16	10
05-06-20	112	66	34	18	12
10-06-20	116	70	36	16	14
11-06-20	102	58	32	14	10
19-06-20	136	66	30	16	14
20-06-20	110	54	32	18	12
TLV	200	100	60	80	80



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FUGITIVE DUST MONITORING DATA

WANI RAILWAY SIDING WNRSF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM	PM10	PM _{2.5}
DETECTION LIMIT	5	5	2
11-06-20	162	94	54


 SCIENTIFIC ASSISTANT


 DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

- | | |
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NOISE LEVEL DATA

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

COAL STOCK YARD: WNRS1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	10-06-20	45.2
JUNE 2020	18-06-20	44.9
TLV		55

NEAR INCHARGE OFFICE: WNRS2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	10-06-20	62.5
JUNE 2020	18-06-20	61.8
TLV		75

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ENVIRONMENTAL MONITORING REPORT

AMBARA OC

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JUNE 2020

Environment Laboratory

CMPDI

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

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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Fugitive Dust Monitoring locations:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

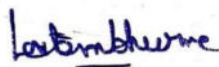
TEST REPORT NO.	RIN/TR/JUNE-20/A74	DATE OF ISSUE	31-07-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA 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 $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-06-20	109	69	33	12	<10
26-06-20	90	58	24	10	<10
TLV	600	300	60	120	120

PIT OFFICE- MOHAN: KAOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-06-20	96	70	30	15	11
26-06-20	74	56	23	11	<10
TLV	600	300	60	120	120

COLONY- HEALTH CENTRE: KAOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-06-20	99	63	29	13	<10
26-06-20	83	69	22	11	<10
TLV	200	100	60	80	80

AMBARA VILLAGE: KAOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-06-20	102	72	32	14	<10
27-06-20	85	60	22	9	<10
TLV	200	100	60	80	80



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JUNE

MANAGER OFFICE: KAON1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	12-06-20	49.6
JUNE 2020	25-06-20	49.8
TLV		75

COLONY (MOHAN/MAORI): KAON2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	10-06-20	46.2
JUNE 2020	26-06-20	46.5
TLV		55

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ENVIRONMENTAL MONITORING REPORT

AMBARA UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JUNE - 2020



Environment Laboratory

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	SAM OFFICE- AMBARA :	KAUA1
2	PIT OFFICE- MOHAN:	KAUA2
3	COLONY- HEALTH CENTRE:	KAUA3
4	AMBARA VILLAGE:	KAUA4

Noise Level Monitoring location :

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

Frequency of Monitoring:

- AIR:** Frequency of monitoring is as per the Env. (Protection) Amendment Rules published vide Gazette dt. 25.9.2000.
- WATER:** Water quality is monitored on fortnightly basis
- NOISE:** Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

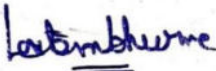
TEST REPORT NO.	RIN/TR/JUNE-20/A72	DATE OF ISSUE	31-07-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA 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 $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-06-20	99	74	35	13	<10
26-06-20	81	6	27	12	<10
TLV	600	300	60	120	120

PIT OFFICE- MOHAN: KAUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-06-20	96	70	30	15	11
26-06-20	74	56	23	11	<10
TLV	600	300	60	120	120

COLONY- HEALTH CENTRE: KAUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
11-06-20	99	63	29	13	<10
26-06-20	83	69	22	11	<10
TLV	200	100	60	80	80

AMBARA VILLAGE: KAUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-06-20	102	72	32	14	<10
27-06-20	85	60	22	9	<10
TLV	200	100	60	80	80


SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JUNE

COLONY(MOHAN/MAORI) KAUN1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	10-06-20	46.2
JUNE 2020	26-06-20	46.5
TLV		55

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ENVIRONMENTAL MONITORING REPORT

AREA WORKSHOP

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JUNE -2020

Environment Laboratory

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

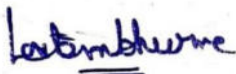
WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report
Air quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/A80	DATE OF ISSUE	31-07-20
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	AREA WORKSHOP	SAMPLING PLAN : LQR 47	

AREA WORKSHOP : KAWA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
12-06-20	84	77	32	16	10
27-06-20	69	48	26	14	<10
TLV	600	300	60	120	120



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NOISE LEVEL DATA

NAME OF AREA: KANHAN AREA **YEAR: 2020**
NAME OF PROJECT: AREA WORKSHOP **MONTH: JUNE**

WORKSHOP PREMISES: KAWN1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	11-06-20	51.9
JUNE 2020	25-06-20	56.3
TLV		75

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ENVIRONMENTAL MONITORING REPORT

DAMUA OC

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JUNE - 2020

Environment Laboratory

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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

TEST REPORT NO.	RIN/TR/JUNE-20/A78	DATE OF ISSUE	31-07-20
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 $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-06-20	84	57	34	18	10
17-06-20	74	62	28	15	10
TLV	600	300	60	120	120

SAM OFFICE- DAMUA: KDOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-06-20	88	59	23	8	<10
18-06-20	72	44	17	9	<10
TLV	600	300	60	120	120

RESCUE STATION (NEAR INCLINE 24&25): KDOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-06-20	105	74	39	12	<10
17-06-20	83	60	29	14	<10
TLV	600	300	60	120	120

NANDORA VILLAGE: KDOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-06-20	71	39	20	10	<10
18-06-20	79	52	23	16	10
TLV	200	100	60	80	80



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DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JUNE

NEAR MANAGER OFFICE: KDON1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	15-06-20	43.9
JUNE 2020	17-06-20	44.5
TLV		75

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ENVIRONMENTAL MONITORING REPORT

DAMUA UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JUNE - 2020

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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

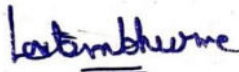
Air quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/A77	DATE OF ISSUE	31-07-20
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
15-06-20	88	59	23	8	<10
18-06-20	72	44	17	9	<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
15-06-20	105	74	39	12	<10
17-06-20	83	60	29	14	<10
TLV	600	300	60	120	120

NANDORA VILLAGE: KDUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM*	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-06-20	71	39	20	10	<10
18-06-20	79	52	23	16	10
TLV	200	100	60	80	80



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JUNE

COLONY: KDUN1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	14-06-20	44.4
JUNE 2020	16-06-20	44.1
TLV		75

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ENVIRONMENTAL MONITORING REPORT

GHORAWARI OC

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JUNE 2020

Environment Laboratory

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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

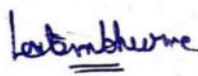
TEST REPORT NO.	RIN/TR/JUNE-20/A76	DATE OF ISSUE	31-07-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA 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
13-06-20	82	62	27	11	<10
27-06-20	76	59	21	13	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
13-06-20	82	55	26	13	<10
17-06-20	87	61	20	14	<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
13-06-20	70	42	19	8	<10
27-06-20	61	49	17	11	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
13-06-20	73	47	21	10	<10
27-06-20	67	53	23	10	<10
TLV	200	100	60	80	80



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JUNE

MANAGER OFFICE: KGON1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	15-06-20	52.2
JUNE 2020	26-06-20	52.8
TLV		75

COLONY (JHARNA UG) KGON2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	12-06-20	46.8
JUNE 2020	17-06-20	42.2
TLV		55

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ENVIRONMENTAL MONITORING REPORT

JHARNA - UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JUNE 2020



Environment Laboratory

CMPDI

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

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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/JUNE-20/A75	DATE OF ISSUE	31-07-20
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
15-06-20	73	48	29	14	<10
17-06-20	66	40	22	17	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
13-06-20	82	55	26	13	<10
17-06-20	87	61	20	14	<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
13-06-20	70	42	19	8	<10
27-06-20	61	49	17	11	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
13-06-20	73	47	21	10	<10
27-06-20	67	53	23	10	<10
TLV	200	100	60	80	80



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JUNE

FAN HOUSE: KJUN1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	15-06-20	68.7
JUNE 2020	17-06-20	69.7
TLV		75

COLONY: KJUN2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	12-06-20	46.8
JUNE 2020	17-06-20	42.2
TLV		55

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ENVIRONMENTAL MONITORING REPORT

MOHAN/ MAORI UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JUNE - 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

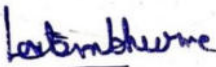
TSET REPORT NO.	RIN/TR/JUNE-20/A73	DATE OF ISSUE	31-07-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/Env/14-I/588-615 dated 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA 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
11-06-20	99	74	35	13	<10
26-06-20	81	66	27	12	<10
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
12-06-20	96	70	30	15	11
26-06-20	74	56	23	11	<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
11-06-20	99	63	29	13	<10
26-06-20	83	69	22	11	<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
12-06-20	102	72	32	14	<10
27-06-20	85	60	22	9	<10
TLV	200	100	60	80	80


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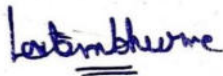

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Test Report
Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/W73	DATE OF ISSUE	31-07-20
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
10-06-20	6.30	54	32	<2
26-06-20	6.11	32	28	<2
TLV	5.5 - 9.0	100	250	10



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ENVIRONMENTAL MONITORING REPORT

NANDAN UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JUNE 2020

Environment Laboratory

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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

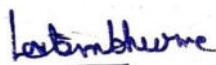
TEST REPORT NO.	RIN/TR/JUNE-20/A71	DATE OF ISSUE	31-07-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA 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
15-06-20	82	60	27	9	<10
18-06-20	71	51	31	8	<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
15-06-20	90	58	24	9	<10
18-06-20	83	54	32	10	<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
14-06-20	74	55	26	10	<10
19-06-20	63	42	20	11	<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
14-06-20	81	53	30	14	<10
19-06-20	74	49	21	18	<10
TLV	200	100	60	80	80



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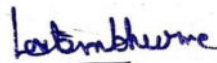
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Test Report
Effluent water quality monitoring data

TEST REPORT NO.	RIN/TR/JUNE-20/W71	DATE OF ISSUE	31-07-20
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
13-06-20	7.52	28	32	<2
18-06-20	7.16	22	36	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JUNE

FAN HOUSE UG II: KNUN1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	13-06-20	60.2
JUNE 2020	18-06-20	61.4
TLV		75

COLONY: KNUN2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	14-06-20	45.1
JUNE 2020	16-06-20	45.6
TLV		55

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ENVIRONMENTAL MONITORING REPORT

NANDAN WASHERY

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JUNE 2020

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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

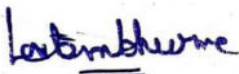
TSET REPORT NO.	RIN/TR/JUNE-20/A70	DATE OF ISSUE	31-07-20
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA 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
14-06-20	85	56	32	10	<10
19-06-20	90	61	29	9	<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
15-06-20	82	60	27	9	<10
18-06-20	71	51	31	8	<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
14-06-20	66	42	29	11	<10
19-06-20	72	47	22	16	<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
14-06-20	81	53	30	14	<10
19-06-20	74	49	21	18	<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 **YEAR: 2020**
NAME OF PROJECT: NANDAN WASHERY **MONTH: JUNE**

WASHERY: KNWN1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	13-06-20	45.5
JUNE 2020	18-06-20	45.7
TLV		75

COLONY: KNWN2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	13-06-20	44.3
JUNE 2020	18-06-20	43.9
TLV		55

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ENVIRONMENTAL MONITORING REPORT

TANDSI UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JUNE-2020

Environment Laboratory

CMPDI

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

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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/JUNE-20/A79	DATE OF ISSUE	31-07-20
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
13-06-20	104	69	27	15	11
20-06-20	96	52	22	13	<10
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
13-06-20	72	49	19	9	<10
20-06-20	70	42	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
13-06-20	92	44	21	16	<10
20-06-20	88	54	23	17	12
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
13-06-20	93	55	29	17	10
20-06-20	82	59	31	18	11
TLV	200	100	60	80	80

Lestambhurne

SCIENTIFIC ASSISTANT

D. Sahu

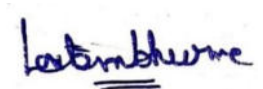
DEEPANSHU SAHU
AUTHORIZED SIGNATORY


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Test Report
Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/W79	DATE OF ISSUE	31-07-20
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
12-06-20	7.65	22	36	<2
19-06-20	7.70	20	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: JUNE

FAN HOUSE: KTUN1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	12-06-20	69.7
JUNE 2020	19-06-20	69.9
TLV		75

COLONY: KTUN2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	19-06-20	45.1
JUNE 2020	19-06-20	45.3
TLV		55

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ENVIRONMENTAL MONITORING REPORT

BARKUHI OC

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JUNE 2020

Environment Laboratory

CMPDI

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

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INTRODUCTION

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

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

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	MANAGER OFFICE :	PBOA1
2	SAM OFFICE:	PBOA2
3	CHANDAMETA WORKSHOP:	PBOA3
4	CENTRAL SCHOOL:	PBOA4

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/A57	DATE OF ISSUE	31.07.2020
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 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
11-06-20	120	64	40	28	14
25-06-20	126	72	37	22	10
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
10-06-20	172	128	42	27	14
24-06-20	176	134	45	24	12
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
10-06-20	176	132	39	23	12
25-06-20	182	138	37	21	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
11-06-20	68	42	13	8	<10
25-06-20	74	46	15	9	<10
TLV	200	100	60	80	80

J. Shan

SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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FUGITIVE DUST MONITORING DATA

WEIGHING BRIDGE PBOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
25-06-20	216	172	54

J. Shary

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: JUNE

NEAR BARKUHI HOSPITAL: PBON1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	10-06-20	53.6
JUNE 2020	24-06-20	52.7
TLV		75

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-20/56	DATE OF ISSUE	31.08.2020
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
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 ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	PENCH	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	CHANDAMETA WORKSHOP		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

CHANDAMETA WORKSHOP: PCWA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
FROM	TO	5	5	2	6	10	
08-Jul-20	09-Jul-20	186	134	35	23	11	CLEAR SKY, CALM
22-Jul-20	23-Jul-20	192	138	39	25	13	CLOUDY SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

J. Shrivastava
Analysed by

Deepanshu sahu
Deepanshu sahu
Authorised Signatory

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NOISE LEVEL MONITORING DATA

NEAR CHANDAMETA WORKSHOP:		PCWN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JULY.2020	08-Jul-20	53.6	-
JULY.2020	25-Jul-20	56.7	55.6
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

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ENVIRONMENTAL MONITORING REPORT

CHANDAMETA WORKSHOP

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JUNE 2020

Environment Laboratory

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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/JUNE-20/A58	DATE OF ISSUE	31.07.2020
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 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
10-06-20	176	132	39	23	12
25-06-20	182	138	37	21	10
TLV	600	300	60	120	120


J. Shany
 SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
 AUTHORIZED SIGNATORY

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ENVIRONMENTAL MONITORING REPORT

CHINDA OC

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JUNE 2020

Environment Laboratory

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	SAM OFFICE:	PCOA1
2	CHINDA OC - SITE:	PCOA2
3	CHINDA VILLAGE:	PCOA3
4	CHINDA COLONY:	PCOA4

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/A64	DATE OF ISSUE	31.07.2020
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 4
NAME OF PROJECT	CHINDA OC	SAMPLING PLAN :	LQR 47

SAM OFFICE: PCOA1					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-06-20	112	58	32	21	10
23-06-20	118	62	28	19	10
TLV	600	300	60	120	120

CHINDA OC - SITE: PCOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-06-20	178	132	35	24	13
21-06-20	182	136	42	22	12
TLV	600	300	60	120	120

CHINDA VILLAGE: PCOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-06-20	58	38	17	9	<10
22-06-20	64	42	15	8	<10
TLV	200	100	60	80	80

CHINDA COLONY: PCOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-06-20	78	56	22	12	<10
22-06-20	82	58	24	14	<10
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/JUNE-20/W64	DATE OF ISSUE	31.07.2020
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	PENCH AREA	SAMPLING METHOD: LSOP 5	
NAME OF PROJECT	CHINDA OC	SAMPLING PLAN : LQR 47	

MINE WATER DISCHARGE: PCOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	4	2
09-06-20	7.56	22	32	<2
22-06-20	8.12	18	28	<2
TLV	5.5 - 9.0	100	250	10


SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JUNE

NEAR MANAGER OFFICE: PCON1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	09-06-20	45.5
JUNE 2020	22-06-20	44.8
TLV		75

COLONY: PCON2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	08-06-20	44.2
JUNE 2020	22-06-20	45.3
TLV		55

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ENVIRONMENTAL MONITORING REPORT

GANPATI UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JUNE 2020

Environment Laboratory

CMPDI

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

AN ISO 9001:2015 COMPANY

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INTRODUCTION

Ganpati UG is located in Chhindwara district of Madhya Pradesh state. The project is administered by Pench Area of Western Coalfields Limited. The climate of the area is 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/JUNE-20/A60	DATE OF ISSUE	31.07.2020
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 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
04-06-20	102	62	28	15	10
17-06-20	106	66	24	14	<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
04-06-20	102	54	25	17	<10
17-06-20	112	62	27	18	<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
04-06-20	98	72	38	17	<10
17-06-20	102	76	32	20	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
04-06-20	56	44	12	8	<10
24-06-20	65	46	15	9	<10
TLV	200	100	60	80	80

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Deepanshu Sahu

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FUGITIVE DUST MONITORING DATA

BG SIDING: PGUF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
24-06-20	218	158	58

EDC SIDING: PGUF2			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
24-06-20	236	166	56

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JUNE

FAN HOUSE: PGUN1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	03-06-20	42.1
JUNE 2020	16-06-20	42.2
TLV		75

COLONY: PGUN2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	03-06-20	46.8
JUNE 2020	16-06-20	47.6
TLV		55

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ENVIRONMENTAL MONITORING REPORT

JAMUNIYA UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JUNE -2020

Environment Laboratory

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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INTRODUCTION

Jamuniya UG is located in Chhindwara district of Madhya Pradesh. The project is administered by Pench Area of Western Coalfields Limited. The Project is connected by road with Parasia town. It is at a distance of 1/2 km before Parasia. The climate of the area is tropical. The maximum and minimum temperature range during Summer is 45OC to 27OC and during Winter is 25OC to 4OC. Annual rainfall varies from 1000 mm to 1400 mm. 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/JUNE-20/A69	DATE OF ISSUE	31-07-20
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 $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-06-20	112	45	32	18	10
19-06-20	118	48	17	9	<10
TLV	600	300	60	120	120

SUBSTATION: PJUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-06-20	122	68	36	24	15
19-06-20	128	74	28	18	<10
TLV	600	300	60	120	120

JAMUNIYA VILLAGE: PJUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-06-20	68	52	18	11	<10
19-06-20	72	56	19	10	<10
TLV	200	100	60	80	80



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Test Report
Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE -20/W69	DATE OF ISSUE	31-07-20
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
05-06-20	7.89	22	32	<2
18-06-20	8.22	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: JAMUNIYA UG

YEAR: 2020
MONTH: JUNE

MANAGER OFFICE: PJUN1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	05-06-20	47.6
JUNE 2020	19-06-20	52.6
TLV		75

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ENVIRONMENTAL MONITORING REPORT

MAHADEOPURI UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JUNE-2020

Environment Laboratory

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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/JUNE-20/A59	DATE OF ISSUE	31-07-20
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 $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-06-20	102	54	25	17	<10
17-06-20	112	62	27	18	<10
TLV	600	300	60	120	120

LAMP ROOM: PMUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-06-20	102	62	28	15	10
17-06-20	106	66	24	14	<10
TLV	600	300	60	120	120

GUEST HOUSE PARASIA: PMUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-06-20	56	44	12	8	<10
24-06-20	65	46	15	9	<10
TLV	200	100	60	80	80

COLONY EDC- DISPENSARY: PMUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-06-20	98	72	38	17	<10
17-06-20	102	76	32	20	10
TLV	200	100	60	80	80



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FUGITIVE DUST MONITORING DATA

COAL STOCK BUNKER PMUF2			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
17-06-20	234	168	56



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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/W59	DATE OF ISSUE	31-07-20
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
09-06-20	7.8	18	28	<2
16-06-20	7.8	16	24	<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: JUNE

FAN HOUSE: PMUN1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	03-06-20	71.6
JUNE 2020	16-06-20	69.9
TLV		75

COLONY: PMUN2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	03-06-20	45.7
JUNE 2020	16-06-20	44.6
TLV		55

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ENVIRONMENTAL MONITORING REPORT

NEHARIA UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JUNE 2020

Environment Laboratory

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INTRODUCTION

Naheria UG project is located in Chhindwara district of Madhya Pradesh. The project is administered by Pench Area of Western Coalfields Limited. The drainage of area is mainly controlled by the Perennial Gunor river and Dhankasa nullah. The climate of the area is tropical. Transportation roads, agricultural and local activities, vehicular traffic etc also contributes to the pollution.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	SAM OFFICE :	PNUA1
2	LAMP ROOM/ SUBSTATION:	PNUA2
3	NEHARIA VILLAGE:	PNUA3
4	BOKAI TOWNSHIP:	PNUA4

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/A67	DATE OF ISSUE	31-07-20
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 $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-06-20	158	128	34	20	11
18-06-20	164	132	38	24	13
TLV	600	300	60	120	120

LAMP ROOM/ SUBSTATION: PNUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-06-20	172	128	38	24	15
18-06-20	182	134	36	24	14
TLV	600	300	60	120	120

NEHARIA VILLAGE: PNUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-06-20	68	32	17	10	<10
18-06-20	74	36	21	15	<10
TLV	200	100	60	80	80

BOKAI TOWNSHIP: PNUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-06-20	112	78	28	19	13
18-06-20	120	82	32	17	11
TLV	200	100	60	80	80

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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE -20/W67	DATE OF ISSUE	31-07-20
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
04-06-20	7.61	18	28	<2
17-06-20	7.82	20	32	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JUNE

FAN HOUSE: PNUN1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	04-06-20	70.3
JUNE 2020	17-06-20	69.3
TLV		75

COLONY: PNUN2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	04-06-20	45.4
JUNE 2020	17-06-20	42.8
TLV		55

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ENVIRONMENTAL MONITORING REPORT

NEW SETHIA OC

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JUNE-2020

Environment Laboratory

CMPDI

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

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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NEW SETHIA OC SITE:	PSOA1
2	SAM OFFICE:	PSOA2
3	CHINDA VILLAGE:	PSOA3
4	CHINDA COLONY:	PSOA4

Water Quality Monitoring location:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/A65	DATE OF ISSUE	31-07-20
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
09-06-20	182	134	39	23	12
23-06-20	188	138	45	26	14
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
10-06-20	112	58	32	21	10
23-06-20	118	62	28	19	10
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
10-06-20	58	38	17	9	<10
22-06-20	64	42	15	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
09-06-20	78	56	22	12	<10
23-06-20	82	58	24	14	<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/JUNE-20/W65	DATE OF ISSUE	31-07-20
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
09-06-20	7.72	26	36	<2
22-06-20	7.17	14	32	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JUNE

NEAR MANAGER OFFICE: PSON1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	09-06-20	53.6
JUNE 2020	22-06-20	53.3
TLV		75

COLONY- CHINDA: PSON2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	08-06-20	44.2
JUNE 2020	22-06-20	45.3
TLV		55

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ENVIRONMENTAL MONITORING REPORT

SHIVPURI OC

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JUNE-2020

Environment Laboratory

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	SITE OFFICE:	PSOA1
2	SUBSTATION-VISHNUPURI UG:	PSOA2
3	COLONY GUEST HOUSE SHIVPURI:	PSOA3
4	CHINDA VILLAGE:	PSOA4

Water Quality Monitoring location:

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

Noise Level Monitoring location :

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	NEAR MANAGER OFFICE:	PSO1
2	COLONY:	PSO2

Frequency of Monitoring:

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

WATER: Water quality is monitored on fortnightly basis

NOISE: Noise level is monitored on fortnightly basis.

Test Report

Air quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/A63	DATE OF ISSUE	31-07-20
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 $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-06-20	68	38	17	10	<10
21-06-20	72	42	19	9	<10
TLV	600	300	60	120	120

SUBSTATION-VISHNUPURI UG: PSOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-06-20	188	142	43	25	12
22-06-20	194	146	48	27	15
TLV	600	300	60	120	120

COLONY GUEST HOUSE SHIVPURI: PSOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-06-20	65	42	18	9	<10
21-06-20	68	44	17	7	<10
TLV	200	100	60	80	80

CHINDA VILLAGE: PSOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-06-20	58	38	17	9	<10
22-06-20	64	42	15	8	<10
TLV	200	100	60	80	80

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FUGITIVE DUST MONITORING DATA

WEIGHING BRIGE: PSOF1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM	PM10	PM_{2.5}
DETECTION LIMIT	5	5	2
22-06-20	242	162	58



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Test Report

Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/W63	DATE OF ISSUE	31-07-20
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
07-06-20	7.4	14	24	<2
20-06-20	7.52	18	28	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JUNE

NEAR MANAGER OFFICE: PSON1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	07-06-20	46.2
JUNE 2020	20-06-20	44.7
TLV		75

COLONY: PSON2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	07-06-20	45.6
JUNE 2020	20-06-20	45.3
TLV		55

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ENVIRONMENTAL MONITORING REPORT

THESGORA MATHANI -UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JUNE-2020

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

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/JUNE-20/A66	DATE OF ISSUE	31-07-20
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 $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-06-20	94	62	28	15	<10
20-06-20	106	68	32	22	12
TLV	200	100	60	80	80

SAM OFFICE: PTUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-06-20	168	122	36	23	12
20-06-20	174	128	42	22	11
TLV	600	300	60	120	120

MANAGER OFFICE- MATHANI: PTUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-06-20	178	134	42	25	11
20-06-20	186	138	42	25	14
TLV	600	300	60	120	120

JHURE COLONY- FILTER PLANT PTUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-06-20	68	32	17	11	<10
22-06-20	72	36	19	10	<10
TLV	200	100	60	80	80



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Test Report
Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/W66	DATE OF ISSUE	31-07-20
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
06-06-20	6.81	12	20	<2
19-06-20	6.71	28	36	<2
TLV	5.5 - 9.0	100	250	10


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ENVIRONMENTAL MONITORING REPORT

URDHAN OC

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JUNE-2020

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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/JUNE-20/A68	DATE OF ISSUE	31-07-20
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 $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-06-20	178	132	34	21	11
20-06-20	186	136	36	22	12
TLV	600	300	60	120	120

URDHAN VILLAGE: PUOA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-06-20	78	52	23	14	<10
19-06-20	82	56	28	18	<10
TLV	200	100	60	80	80

NEHARIA VILLAGE: PUOA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-06-20	68	32	17	10	<10
18-06-20	74	36	21	15	<10
TLV	200	100	60	80	80

BOKAI TOWNSHIP: PUOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
05-06-20	112	78	28	19	13
18-06-20	120	82	32	17	11
TLV	200	100	60	80	80

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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JUNE

NEAR MANGER OFFICE: PUON1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	06-06-20	47.8
JUNE 2020	20-06-20	50.2
TLV		75

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ENVIRONMENTAL MONITORING REPORT

VISHNUPURI -II UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JUNE -20



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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/JUNE-20/A62	DATE OF ISSUE	31-07-20
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 µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-06-20	182	132	45	27	13
21-06-20	188	136	47	29	17
TLV	600	300	60	120	120

SUBSTATION: PV2UA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-06-20	188	142	43	25	12
22-06-20	194	146	48	27	15
TLV	600	300	60	120	120

COLONY GUEST HOUSE SHIVPURI: PV2UA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-06-20	65	42	18	9	<10
21-06-20	68	44	17	7	<10
TLV	200	100	60	80	80

CHINDA VILLAGE: PV2UA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-06-20	58	38	17	9	<10
22-06-20	64	42	15	8	<10
TLV	200	100	60	80	80

J. Shrivastava

SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
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FUGITIVE DUST MONITORING DATA

MINE WATER DISCHARGE- II : PV2UW1			
DATE OF SAMPLING	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
	SPM	PM10	PM _{2.5}
DETECTION LIMIT	5	5	2
23-06-20	222	154	52

J. Shrivastava

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Deepanshu Sahu

DEEPANSHU SAHU
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Test Report
Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/W62	DATE OF ISSUE	31-07-20
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
07-06-20	7.36	18	28	<2
20-06-20	7.64	16	24	<2
TLV	5.5 - 9.0	100	250	10

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Deepanshu Sahu

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ENVIRONMENTAL MONITORING REPORT

VISHNUPURI -I UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JUNE-2020

Environment Laboratory

CMPDI

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

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INTRODUCTION

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

Sampling Location:

Ambient Air Quality Monitoring locations:

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

Noise Level Monitoring location :

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

Frequency of Monitoring:

AIR: Frequency of monitoring is as per the Env. (Protection) Amendment 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/JUNE-20/A61	DATE OF ISSUE	31.07.2020
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
08-06-20	182	132	45	27	13
21-06-20	188	136	47	29	17
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
09-06-20	188	142	43	25	12
22-06-20	194	146	48	27	15
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
08-06-20	65	42	18	9	<10
21-06-20	68	44	17	7	<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
10-06-20	58	38	17	9	<10
22-06-20	64	42	15	8	<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: VISHNUPURI -I UG

YEAR: 2020
MONTH: JUNE

COLONY (VISHNUPURI -I): PV1UN2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	07-06-20	48.3
JUNE 2020	20-06-20	45.8
TLV		55

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ENVIRONMENTAL MONITORING REPORT

CHATTARPUR-I & II UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JUNE 2020



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INTRODUCTION

Chattarpur - I & II UG Project is located in Betul district of Madhya Pradesh. The project is administered by Pathekhera Area of Western Coalfields Limited. Drainage is mainly controlled by two / three drains, which drains into the Tawa river. The climate of the area is tropical. Transportation roads, agricultural and local activities, vehicular traffic etc also contributes to the pollution.

Sampling Location:

Ambient Air Quality Monitoring locations:

SL. NO.	LOCATION DETAIL	LOCATION CODE
1	SUBSTATION- CHATTARPUR I UG:	PKCUA1
2	SAM OFFICE:	PKCUA2
3	SUBSTATION- CHATTARPUR II UG:	PKCUA3
4	CHATTARPUR VILLAGE:	PKCUA4

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/JUNE -20/A81	DATE OF ISSUE	31-07-20
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 µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-06-20	148	96	38	30	11
24-06-20	119	56	28	17	<10
TLV	600	300	60	120	120

SAM OFFICE: PKCUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-06-20	205	110	46	40	<10
24-06-20	192	100	32	30	10
TLV	600	300	60	120	120

SUBSTATION- CHATTARPUR II UG: PKCUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-06-20	100	100	40	28	<10
24-06-20	198	120	38	36	12
TLV	600	300	60	120	120

CHATTARPUR VILLAGE: PKCUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
07-06-20	124	74	37	25	<10
24-06-20	118	70	32	20	<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/JUNE -20/W81	DATE OF ISSUE	31-07-20
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
06-06-20	7.76	36	40	<2
23-06-20	7.8	30	48	<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
06-06-20	7.38	30	36	<2
23-06-20	7.21	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: CHATTARPUR-I & II UG MONTH: JUNE

FAN HOUSE- I UG: PKCUN1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	06-06-20	69.7
JUNE 2020	23-06-20	69.1
TLV		75
FAN HOUSE- II UG: PKCUN2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	06-06-20	68.6
JUNE 2020	23-06-20	69.4
TLV		75

COLONY: PKCUN3		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	06-06-20	44.8
JUNE 2020	23-06-20	44.5
TLV		55

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ENVIRONMENTAL MONITORING REPORT

SARNI UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JUNE -2020

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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/JUNE -20/A83	DATE OF ISSUE	31-07-20
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 µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-06-20	199	110	40	30	10
23-06-20	186	99	32	26	<10
TLV	600	300	60	120	120

NEAR DY. CME OFFICE: PKSUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-06-20	147	92	36	28	<10
23-06-20	138	84	32	22	<10
TLV	600	300	60	120	120

GM OFFICE ENTRANCE GATE: PKSUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-06-20	123	62	30	24	<10
23-06-20	105	54	26	20	<10
TLV	200	100	60	80	80

PATHAKHERA COLONY: PKSUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-06-20	126	82	32	26	<10
21-06-20	133	85	34	28	<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/JUNE -20/W83	DATE OF ISSUE	31-07-20
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
07-06-20	7.36	26	36	<2
21-06-20	7348	18	32	<2
TLV	5.5 - 9.0	100	250	10


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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JUNE

FAN HOUSE: PKSUN1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	07-06-20	69.7
JUNE 2020	21-06-20	69.8
TLV		75

COLONY: PKSUN2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	07-06-20	44.7
JUNE 2020	21-06-20	45.2
TLV		55

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ENVIRONMENTAL MONITORING REPORT

SHOBHAPUR UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JUNE -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/JUNE -20/A82	DATE OF ISSUE	31-07-20
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
06-06-20	149	89	36	29	<10
22-06-20	139	75	30	24	<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
06-06-20	97	47	32	20	<10
22-06-20	109	62	26	24	<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
04-06-20	138	74	34	28	<10
22-06-20	146	88	36	32	11
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
10-06-20	117	58	32	22	<10
23-06-20	123	65	34	27	<10
TLV	200	100	60	80	80



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| 3 | * Test parameter not under NABL scope. |

Test Report
Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/W82	DATE OF ISSUE	31-07-20
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
06-06-20	7.86	32	44	<2
22-06-20	8.02	36	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: JUNE

FAN HOUSE: PKSUN1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	06-06-20	70.4
JUNE 2020	22-06-20	70.2
TLV		75

COLONY: PKSUN2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	06-06-20	44.5
JUNE 2020	22-06-20	45.8
TLV		50

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ENVIRONMENTAL MONITORING REPORT

TAWA II UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JUNE 2020



Environment Laboratory

CMPDI

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

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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/JUNE -20/A85	DATE OF ISSUE	31-07-20
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
10-06-20	109	59	34	18	<10
21-06-20	127	64	30	22	<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
04-06-20	155	76	38	30	10
21-06-20	143	70	32	26	<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
08-06-20	97	49	21	17	<10
21-06-20	109	57	26	22	<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
04-06-20	106	55	30	24	<10
22-06-20	94	50	28	20	<10
TLV	200	100	60	80	80



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Test Report
Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/W85	DATE OF ISSUE	31-07-20
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
09-06-20	7.08	28	44	<2
20-06-20	7.32	32	36	<2
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

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

YEAR: 2020
MONTH: JUNE

FAN HOUSE: PKTUN1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	04-06-20	69
JUNE 2020	20-06-20	68.7
TLV		75

COLONY: PKTUN2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	04-06-20	45.1
JUNE 2020	20-06-20	44.9
TLV		55

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ENVIRONMENTAL MONITORING REPORT

TAWA UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JUNE 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/JUNE-20/A84	DATE OF ISSUE	31.07.2020
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 µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-06-20	155	76	38	30	10
21-06-20	143	70	32	26	<10
TLV	600	300	60	120	120

MANAGER OFFICE- TAWA II: PKTUA2					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
10-06-20	109	59	34	18	<10
21-06-20	127	64	30	22	<10
TLV	600	300	60	120	120

MPEB COLONY: PKTUA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
08-06-20	97	49	21	17	<10
21-06-20	109	57	26	22	<10
TLV	200	100	60	80	80

HIRA PALLA/BHAGIKHAAPA VILLAGE: PKTUA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
04-06-20	106	55	30	24	<10
22-06-20	94	50	28	20	<10
TLV	200	100	60	80	80



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NOISE LEVEL DATA

NAME OF AREA: PATHAKHERA AREA YEAR: 2020
 NAME OF PROJECT: TAWA UG MONTH: JUNE

FAN HOUSE: PKTUN1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	04-06-20	69.2
JUNE 2020	20-06-20	69.5
TLV		75

COLONY: PKTUN2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	04-06-20	45.1
JUNE 2020	20-06-20	44.9
TLV		55

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ENVIRONMENTAL MONITORING REPORT

CWS TADALI

CWS TADALI

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE 2020

Environment Laboratory

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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

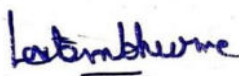
TSET REPORT NO.	RIN/TR/JUNE-20/A41	DATE OF ISSUE	31.07.2020
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA 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
13-06-20	128	74	40	16	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
15-06-20	136	80	42	14	12
TLV	600	300	60	120	120

ADMINISTRATIVE BUILDING: CWSA3					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/l)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
15-06-20	144	84	44	18	14
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
15-06-20	156	86	48	16	10
TLV	600	300	60	120	120



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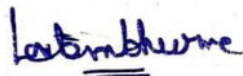
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Test Report
Effluent water quality monitoring data

TSET REPORT NO.	RIN/TR/JUNE-20/W41	DATE OF ISSUE	31.07.2020
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
14-06-20	6.66	60	100	4
TLV	5.5 - 9.0	100	250	10



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NOISE LEVEL DATA

NAME OF AREA: CWS TADALI
NAME OF PROJECT: CWS TADALI

YEAR: 2020
MONTH: JUNE

NEAR WORKSHOP: CWSN1		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	14-06-20	57.9
TLV		75

COLONY: CWSN2		
MONTH	DATE OF DATA COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
JUNE 2020	14-06-20	42.8
TLV		55