


Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-20/27	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	BALLARPUR	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	BALLARPUR OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE-BALLARPUR UG: BBUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
12-7-20	13-7-20	222	92	46	19	11	CLEAR SKY/CALM
26-7-20	27-7-20	214	106	62	16	<10	CLEAR SKY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SUBSTATION: BBOA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
13-7-20	14-7-20	224	112	54	13	11	CLEAR SKY/CALM
27-7-20	28-7-20	240	102	58	18	<10	CLEAR SKY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

PREMISES OF SUB AREA: BBOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
13-7-20	14-7-20	216	106	56	16	12	CLEAR SKY/CALM
27-7-20	28-7-20	212	114	54	19	<10	CLEAR SKY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

FILTER PLANT COLONY: BBUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
12-7-20	13-7-20	198	108	54	17	11	CLEAR SKY/CALM
26-7-20	27-7-20	196	98	46	18	<10	CLEAR SKY/CALM
NAAQS, 2009		-	100	60	80	80	

FUGITIVE DUST MONITORING

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	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LSOP 4		

CHP/COAL LOADING POINT: BBOF1					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
13-7-20	14-7-20	384	248	132	CLEAR SKY /WIND

W.BRIDGE: BBOF2					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
13-7-20	14-7-20	348	226	128	CLEAR SKY/WINDY

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

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	2	10	4	2
12-7-20	7.53	48	44	<2
27/7/2020	7.62	38	36	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	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	2	10	4	2
12-7-20	7.63	38	36	<2
27/7/2020	7.48	40	32	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



Analysed by




Deepanshu sahu
Authorised Signatory

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NOISE LEVEL MONITORING DATA

CHP:		BBON1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY 2020	13/7/20	64.4	-
JULY 2020	25/7/20	53.2	52.9
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY BALLARPUR UG:		BBUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY 2020	12-7-20	50.1	-
JULY 2020	25/7/2020	42.6	41.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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TEST REPORT NO.	RIN/TR/JULY-20/28	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	BALLARPUR	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	BALLARPUR UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE-BALLARPUR UG: BBUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
12-07-20	13-7-20	222	92	46	19	11	CLEAR SKY/CALM
26/7/2020	27-7-20	214	106	62	16	<10	CLEAR SKY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SUBSTATION: BBOA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
13/7/2020	14-7-20	224	112	54	13	11	CLEAR SKY/CALM
27/7/2020	28-7-20	240	102	58	18	<10	CLEAR SKY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

PREMISES OF SUB AREA: BBOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
13/7/2020	14-7-20	216	106	56	16	12	CLEAR SKY/CALM
27/7/2020	28-7-20	212	114	54	19	<10	CLEAR SKY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

FILTER PLANT COLONY: BBUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
12-07-20	13-7-20	198	108	54	17	11	CLEAR SKY/CALM
26/7/2020	27-7-20	196	98	46	18	<10	CLEAR SKY/CALM
NAAQS, 2009		-	100	60	80	80	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

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	2	10	4	2
12-07-20	7.44	40	44	<2
26/7/2020	7.49	48	40	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



Analysed by



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NOISE LEVEL MONITORING DATA

FAN HOUSE:		BBUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY 2020	13/7/2020	67.9	-
JULY 2020	25/7/2020	71.1	70.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY:		BBUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY 2020	12-07-20	50.1	-
JULY 2020	25/7/2020	42.6	41.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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TEST REPORT NO.	RIN/TR/JULY-20/30	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	BALLARPUR	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	GOURI I & II A OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE-GOURI-I OC: BGOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
09-7-20	10-7-20	208	92	46	19	<10	RAINY SKY/CALM
23/7/2020	24-7-20	232	126	52	17	<10	CLEAR SKY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SAM OFFICE GOURI SUB AREA: BGOA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
09-7-20	10-7-20	226	122	44	16	<10	RAINY SKY/CALM
23/7/2020	24-7-20	214	124	54	14	<10	CLEAR SKY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

GOURI COLONY/FILTER PLANT: BSOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10-7-20	11-7-20	216	122	58	17	<10	CLEAR SKY/CALM
24/7/2020	25-7-20	204	98	46	16	<10	CLOUDY SKY/CALM
NAAQS, 2009		-	100	60	80	80	

GOURI VILLAGE: BGOA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10-7-20	11-7-20	248	122	58	16	12	CLEAR SKY/CALM
24/7/2020	25-7-20	232	98	46	18	<10	CLOUDY SKY/CALM
NAAQS, 2009		-	100	60	80	80	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

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	2	10	4	2
08-7-20	7.42	44	40	<2
25/7/2020	7.48	34	32	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	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	2	10	4	2
08-7-20	7.58	46	44	<2
25/7/2020	7.39	40	36	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

CHP:		BGON1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY 2020	09-07-20	65.6	-
JULY 2020	24/7/2020	64.6	63.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

GOURI COLONY:		BSON2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY 2020	10-07-20	45.8	-
JULY 2020	24/7/2020	42.1	41.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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TEST REPORT NO.	RIN/TR/JULY-20/29	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	BALLARPUR	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	GOURI DEEP		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE: BGDO1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
09-7-20	10-7-20	202	102	58	14	<10	CLOUDY /CALM
21/7/2020	22-7-20	214	106	56	12	<10	CLEAR SKY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

MUTRA VILLAGE: BGDO2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
09-7-20	10-7-20	212	106	54	13	11	CLOUDY /CALM
21/7/2020	22-7-20	228	114	56	12	<10	CLEAR SKY/CALM
NAAQS, 2009		-	100	60	80	80	

GOYEGAON VILLAGE: BGDO3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
09-7-20	10-7-20	194	98	46	16	11	CLOUDY /CALM
21/7/2020	22-7-20	218	108	54	14	<10	CLEAR SKY/CLAM
NAAQS, 2009		-	100	60	80	80	

ANTARGAON VILLAGE: BGDO4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
09-7-20	10-7-20	194	92	46	13	12	CLOUDY/CALM
21/7/2020	22-7-20	218	106	62	14	<10	CLEAR SKY / CALM
NAAQS, 2009		-	100	60	80	80	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

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	2	10	4	2
09-7-20	7.42	42	40	<2
20/7/2020	7.38	38	36	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

ETP(WORKSHOP) DISCHARGE: BGDW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
09-7-20	7.38	38	36	<2
20/7/2020	7.36	44	40	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

MANAGER OFFICE:		BGON1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
DETECTION LIMIT		20	20
JULY 2020	14/7/2020	50.8	-
JULY 2020	24/7/2020	54.1	53.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-20/31	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	BALLARPUR	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	NEW DHOPTALA OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

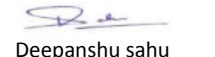
SAM OFFICE-DHOPTALA SUB AREA: BND0A1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11-7-20	12-7-20	224	122	56	17	12	CLEAR SKY/CALM
25/7/2020	26-7-20	194	128	50	16	<10	CLOUDY SKY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

MANAGER OFFICE-DHOPTALA OC: BND0A2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11-7-20	12-7-20	248	108	58	18	11	CLEAR SKY /CALM
25/7/2020	26-7-20	218	88	48	19	<10	CLOUDY SKY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SASTI COLONY: BSUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11-7-20	12-7-20	228	108	52	17	12	CLEAR SKY/CALM
25/7/2020	26-7-20	210	106	50	16	10	CLOUDY SKY/CALM
NAAQS, 2009		-	100	60	80	80	

SASTI VILLAGE: BSUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11-7-20	12-7-20	234	132	56	18	12	CLEAR SKY/CALM
25/7/2020	26-7-20	216	112	52	16	11	CLOUDY SKY/CALM
NAAQS, 2009		-	100	60	80	80	


Analysed by



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NOISE LEVEL MONITORING DATA

CHP:		BNDON1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY 2020	12-7-20	66.8	-
JULY 2020	25/7/2020	56.9	55.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

SASTI COLONY:		BSUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY 2020	04-07-20	46.3	-
JULY 2020	25/7/2020	42.5	41.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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TEST REPORT NO.	RIN/TR/JULY-20/33	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	BALLARPUR	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	PAUNI II OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MINE OFFICE: BP2OA1							
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	
10-7-20	11-7-20	198	108	48	15	12	CLOUDY/ CALM
22/7/2020	23-7-20	202	88	58	14	10	CLOUDY SKY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SUBSTATION: BP2OA2							
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	
09-7-20	10-7-20	208	112	52	13	12	RAINY SKY/WINDY
23/7/2020	24-7-20	218	132	56	15	11	CLEAR SKY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SAKHARI VILLAGE: BP2OA3							
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	
09-7-20	10-7-20	218	106	50	17	11	RAINY SKY / LIGHT BREEZE
23/7/2020	24-7-20	206	108	52	16	12	CLEAR SKY/ CALM
NAAQS, 2009		-	100	60	80	80	

WORKSHOP PAUNI OC: BPOA2							
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	
10-7-20	11-7-20	208	114	48	16	<10	RAINY SKY/CALM
22/7/2020	23-7-20	224	116	46	18	<10	CLOUDY SKY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

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	2	10	4	2
10-7-20	7.72	38	28	<2
24/7/2020	7.38	54	48	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

MANAGER OFFICE:		BPON1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
DETECTION LIMIT		20	20
JULY 2020	09-7-20	52.7	-
JULY 2020	24/7/2020	53.2	52.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

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TEST REPORT NO.	RIN/TR/JULY-20/32	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	BALLARPUR	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	PAUNI OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE-POUNI OC: BPOA1							
DATE(dd:mm:yy)OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10-07-20	11-7-20	214	112	52	17	11	CLOUDY/WINDY
22/7/2020	23-7-20	206	108	44	15	<10	CLOUDY SKY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

WORKSHOP-PAUNI OC BPOA2							
DATE(dd:mm:yy)OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10-07-20	11-7-20	208	114	48	16	<10	RAINY SKY/CALM
22/7/2020	23-7-20	224	116	46	18	<10	CLOUDY SKY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

PAUNI VILLAGE: BPOA3							
DATE(dd:mm:yy)OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10-07-20	11-7-20	228	122	56	17	11	CLOUDY/CALM
22/7/2020	23-7-20	196	128	50	16	<10	CLOUDY SKY/CALM
NAAQS, 2009		-	100	60	80	80	

GOURI VILLAGE: BGOA4							
DATE(dd:mm:yy)OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10-07-20	11-7-20	248	122	58	16	12	CLEAR SKY/CALM
24/7/2020	25-7-20	232	98	46	18	<10	CLOUDY SKY/CALM
NAAQS, 2009		-	100	60	80	80	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

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	2	10	4	2
10-07-20	7.46	44	40	<2
24/7/2020	7.58	42	32	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	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	2	10	4	2
10-07-20	7.38	46	44	<2
24/7/2020	7.62	52	44	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

MANAGER OFFICE:		BPON1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY 2020	08-07-20	50.3	-
JULY 2020	24/7/2020	53.5	52.8
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

GOURI COLONY:		BSON2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY 2020	10-07-20	45.8	-
JULY 2020	24/7/2020	42.1	41.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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TEST REPORT NO.	RIN/TR/JULY-20/34	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	BALLARPUR	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	SASTI OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SAM OFFICE SASTI OC: BSOA1							
DATE(dd:mm:yy)OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10-7-20	11-7-20	208	126	52	17	<10	CLEAR SKY/CALM
24/7/2020	25-7-20	188	92	46	14	<10	CLOUDY SKY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

AREA STORE: BSOA2							
DATE(dd:mm:yy)OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10-7-20	11-7-20	230	124	54	15	<10	CLEAR SKY/CALM
24/7/2020	25-7-20	196	122	44	13	13	CLOUDY SKY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

GOURI COLONY FILTER PLANT: BSOA3							
DATE(dd:mm:yy)OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10-7-20	11-7-20	216	122	58	17	<10	CLEAR SKY/CALM
24/7/2020	25-7-20	204	98	46	16	<10	CLOUDY SKY/CALM
NAAQS, 2009		-	100	60	80	80	

SASTI VILLAGE: BSUA4							
DATE(dd:mm:yy)OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11-7-20	12-7-20	234	132	56	18	12	CLEAR SKY/CALM
25/7/2020	26-7-20	216	112	52	16	11	CLOUDY SKY/CALM
NAAQS, 2009		-	100	60	80	80	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

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	2	10	4	2
11-7-20	7.62	42	36	<2
26/7/2020	7.72	38	32	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	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	2	10	4	2
10-7-20	7.58	32	28	<2
26/7/2020	7.67	34	32	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

STP(DOMESTIC EFFLUENT)TREATED: BSOW3		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS (in mg/l)	BOD(in mg/l)
DETECTION LIMIT	10	2
10-7-20	64	11.4
26/7/2020	72	12
GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS GSR 801E EPA 1993	100	30



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NOISE LEVEL MONITORING DATA

CHP		BSON1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY 2020	10-7-20	64.7	-
JULY 2020	24/7/2020	63.3	62.3
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

GOURI COLONY:		BSON2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY 2020	10-7-20	45.8	-
JULY 2020	24/7/2020	42.1	41.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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TEST REPORT NO.	RIN/TR/JULY-20/35	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	BALLARPUR	SAMPLING PLAN :	LQR 47
NAME OF PROJECT	SASTI UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD :	LSOP 4		

SAM OFFICE-DHOPTALA SU AREA: BND0A1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11-7-20	12-7-20	224	122	56	17	12	CLEAR SKY/CALM
25/7/2020	26-7-20	194	128	50	16	<10	CLOUDY SKY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

MANAGER OFFICE-DHOPTALA OC: BND0A2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11-7-20	12-7-20	248	108	58	18	11	CLEAR SKY/CALM
25/7/2020	26-7-20	218	88	48	19	<10	CLOUDY SKY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SASTI COLONY: BSUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11-7-20	12-7-20	228	108	52	17	12	CLEAR SKY/CALM
25/7/2020	26-7-20	210	106	50	16	10	CLOUDY SKY/CALM
NAAQS, 2009		-	100	60	80	80	

SASTI VILLAGE: BSUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11-7-20	12-7-20	234	132	56	18	12	CLEAR SKY/CALM
25/7/2020	26-7-20	216	112	52	16	11	CLOUDY SKY/CALM
NAAQS, 2009		-	100	60	80	80	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

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	2	10	4	2
11-7-20	7.63	34	36	<2
26/7/2020	7.53	42	40	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

FAN HOUSE:		BSUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY 2020	04-7-20	71.4	-
JULY 2020	25/7/2020	70.2	69.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

SASTI COLONY:		BSUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY 2020	04-7-20	46.3	-
JULY 2020	25/7/2020	42.5	41.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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TEST REPORT NO.	RIN/TR/JULY-20/17	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	CHANDRAPUR	SAMPLING PLAN :	LQR 47
NAME OF PROJECT	BHATADI OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD :	LSOP 4		

BHATADI SECURITY POST : CBOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
15/07/20	16-7-20	96	64	29	18	<10	CLEAR SKY /CALM
16/07/20	17-7-20	79	52	24	12	<10	CLOUDY SKY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

BHATADI MANAGER OFFICE: CBOA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
15/07/20	16-7-20	160	84	36	28	<10	CLOUDY/CALM
16/07/20	17-7-20	133	71	27	21	<10	CLOUDY SKY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

BHATADI VILLAGE: CBOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
15/07/20	16-7-20	125	88	31	27	<10	CLEAR SKY/CALM
16/07/20	17-7-20	110	74	28	20	<10	CLOUDY SKY /CALM
NAAQS, 2009		-	100	60	80	80	

VADHOLI VILLAGE: CBOA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
13-7-20	14-7-20	152	109	32	28	<10	CLEAR SKY/CLAM
16-7-20	17-7-20	142	93	27	13	<10	CLOUDY SKY /CALM
NAAQS, 2009		-	100	60	80	80	

FUGITIVE DUST MONITORING

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	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LSOP 4		

CHP/MGR LOADING POINT: CBOF1					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
13-7-20	14-7-20	184	110	42	CLEAR SKY/CALM

W.BRIDGE: CBOF2					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
13-7-20	14-7-20	174	74	36	CLEAR SKY/CALM

WORKSHOP: CBOF3					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
13-7-20	14-7-20	180	82	30	CLEAR SKY /CALM

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

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	2	10	4	2
15/07/20	7.23	32	44	<2
16/07/20	7.1	28	40	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	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	2	10	4	2
15/07/20	7.1	22	28	<2
16/07/20	7.26	26	32	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

STP(DOMESTIC EFFLUENT)TREATED: CBOW3		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS (in mg/l)	BOD(in mg/l)
DETECTION LIMIT	10	2
15/07/20	28	11.4
16/07/20	32	12.6
GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS GSR 801E EPA 1993	100	30



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NOISE LEVEL MONITORING DATA

NEAR CHP:		CBON1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY 2020	15/07/20	52.3	-
JULY 2020	17/07/20	67.5	66.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY:		CBON2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY 2020	15/07/20	46.2	-
JULY 2020	17/07/20	45.8	44.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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TEST REPORT NO.	RIN/TR/JULY-20/18	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	CHANDRAPUR	SAMPLING PLAN :	LQR 47
NAME OF PROJECT	CRC UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD :	LSOP 4		

MANAGER OFFICE -MAHAKALI UG: CMUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
14-7-20	15-7-20	98	76	32	18	<10	CLEAR SKY/CALM
28-7-20	29-7-20	82	54	28	12	<10	CLOUDY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

CRC SUBSTATION/FILTER PLANT: CCRUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
14-7-20	15-7-20	139	98	20	12	<10	CLOUDY/CALM
28-7-20	29-7-20	160	110	27	17	<10	CLOUDY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

JATWARA MILK SCHEME: CCRUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
14-7-20	15-7-20	137	74	34	24	<10	CLOUDY/CALM
28-7-20	29-7-20	120	67	23	12	<10	CLOUDY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

COLONY MAHAKALI UG: CMUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
15-7-20	16-7-20	96	55	30	18	10	CLEAR SKY/CALM
28-7-20	29-7-20	84	50	40	36	<10	CLOUDY/CALM
NAAQS, 2009		-	100	60	80	80	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: CCRUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
14-7-20	7.46	16	24	<2
28-7-20	7.3	20	28	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

		CHP: CCRUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY 2020	14-7-20	58.3	-
JULY 2020	17-Jul-20	66.6	65.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

		COLONY: CCRUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY 2020	14-Jul-20	46.2	-
JULY 2020	17-Jul-20	60.1	59.3
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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TEST REPORT NO.	RIN/TR/JULY-20/19	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	CHANDRAPUR	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	DRC UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

PIT OFFICE-DRC-III UG: CDRUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
13-7-20	14-7-20	115	64	32	26	<10	CLOUDY/ CALM
29-7-20	30-7-20	100	60	26	21	<10	CLOUDY /MODERATE BREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

NEHARU NAGAR/SUBSTATION: CDRUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
13-7-20	14-7-20	144	104	24	16	<10	CLOUDY/ CALM
29-7-20	30-7-20	159	96	33	23	<10	CLOUDY /MODERATE BREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

DRC-V COLONY: CDRUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
13-7-20	14-7-20	115	55	32	22	<10	CLOUDY/ CALM
29-7-20	30-7-20	134	67	37	25	<10	CLOUDY /MODERATE BREEZE
NAAQS, 2009		-	100	60	80	80	

PIT OFFICE DRC-IV: CDRUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
13-7-20	14-7-20	164	99	36	28	<10	CLOUDY/ CALM
29-7-20	30-7-20	153	87	29	19	<10	CLOUDY /MODERATE BREEZE
NAAQS, 2009		-	100	60	80	80	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

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	2	10	4	2
13-7-20	7.37	28	32	<2
28-7-20	7.49	24	20	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

FAN HOUSE:		CDRUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY 2020	14-7-20	69.8	-
JULY 2020	17-7-20	62.1	61.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

DURGAPUR COLONY:		CDON2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY 2020	07-08-20	48.7	-
JULY 2020	16-7-20	46.9	45.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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TEST REPORT NO.	RIN/TR/JULY-20/20	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	CHANDRAPUR	SAMPLING PLAN :	LQR 47
NAME OF PROJECT	DURGAPUR OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD :	LSOP 4		

MANAGER OFFICE-SECTOR V: CDOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
07-08-20	9-7-20	134	100	36	32	<10	CLOUDY/CALM
20-7-20	21-7-20	147	105	38	28	<10	CLEAR SKY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

DURGAPUR VILLAGE CDOA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
07-08-20	9-7-20	126	80	30	24	<10	CLOUDY/CALM
20-7-20	21-7-20	135	88	36	28	<10	CLEAR SKY/CALM
NAAQS, 2009		-	100	60	80	80	

MANAGER OFFICE Q-IV: CPOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
14-7-20	15-7-20	102	59	26	12	<10	CLOUDY/CALM
17-7-20	18-7-20	124	68	33	19	<10	CLEAR SKY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

FILTER PLANT DOC/POC COLONY: CDOA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
07-08-20	9-7-20	155	85	26	22	<10	CLOUDY/CALM
20-7-20	21-7-20	170	90	30	22	<10	CLEAR SKY/CALM
NAAQS, 2009		-	100	60	80	80	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5


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	2	10	4	2
07-08-20	7.14	26	32	<2
20-7-20	7.26	22	36	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	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	2	10	4	2
07-08-20	7.56	28	36	<2
20-7-20	7.38	24	32	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

ETP(WORKSHOP): CDOW3				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
07-08-20	7.28	24	40	<2
20-7-20	7.46	32	24	<2
STANDARDS FOR COAL	5.5 - 9.0	100	250	10

STP(DOMESTIC EFFLUENT): CDOW4		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS (in mg/l)	BOD(in mg/l)
DETECTION LIMIT	10	2
07-08-20	32	10.2
20-7-20	36	10
GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS GSR 801E EPA 1993	100	30


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NOISE LEVEL MONITORING DATA

CHP:		CDON1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY 2020	07-08-20	56.9	-
JULY 2020	16-7-2020	61.7	61.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY:		CDON2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY 2020	07-08-20	48.7	-
JULY 2020	16-7-2020	46.9	45.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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TEST REPORT NO.	RIN/TR/JULY-20/22	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	CHANDRAPUR	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	HLP I & III UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SUBSTATION HLC I UG: CHUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
08-07-20	9-7-20	117	70	20	12	<10	CLOUDY /CALM
20-7-20	21-7-20	139	76	24	20	<10	CLEAR SKY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

PIT OFFICE-HLC-I INCLINE: CHUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11-07-20	12-7-20	125	95	28	19	<10	CLOUDY /CALM
27-7-20	28-7-20	137	105	32	24	<10	CLEAR SKY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

HLC-III COLONY: CHUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11-07-20	12-7-20	105	64	20	12	<10	CLOUDY /CALM
27-7-20	28-7-20	120	74	24	14	<10	CLEAR SKY/CALM
NAAQS, 2009		-	100	60	80	80	

RAJIV GANDHI ENGG. COLLAGE: CHUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11-07-20	12-7-20	129	84	32	18	<10	CLOUDY/CALM
28-7-20	29-7-20	142	96	36	26	<10	CLEAR SKY/CALM
NAAQS, 2009		-	100	60	80	80	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE(HLP-III): CHUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
11-07-20	6.98	30	48	<2
27-7-20	7.2	28	40	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

FAN HOUSE-I:		CHUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY 2020	07-11-20	71.9	-
JULY 2020	16-7-20	56.4	55.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY:		CHUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY 2020	07-11-20	44.3	-
JULY 2020	16-7-20	42.7	42.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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TEST REPORT NO.	RIN/TR/JULY-20/21	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	CHANDRAPUR	SAMPLING PLAN :	LQR 47
NAME OF PROJECT	HLP OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD :	LSOP 4		

MANAGER OFFICE (NANDGAON UG): CNUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
07-12-20	13-7-20	136	88	34	28	<10	CLOUDY SKY/CALM
29-7-20	30-7-20	122	78	30	23	<10	CLOUDY SKY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

MANAGER OFFICE-HLOC: CHOA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
13-7-20	14-7-20	128	82	30	22	<10	CLOUDY SKY/CALM
29-7-20	30-7-20	143	101	36	32	<10	CLOUDY SKY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

MANA VILLAGE: CMUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
07-12-20	13-7-20	90	48	22	14	<10	CLOUDY SKY/CALM
28-7-20	29-7-20	119	59	28	22	<10	CLOUDY SKY/CALM
NAAQS, 2009		-	100	60	80	80	

COLONY (NANDGAON): CNUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
07-12-20	13-7-20	105	80	36	30	<10	CLOUDY SKY/CALM
29-7-20	30-7-20	130	97	32	28	<10	CLOUDY SKY/CALM
NAAQS, 2009		-	100	60	80	80	

FUGITIVE DUST MONITORING

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	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LSOP 4		

WEIGHT BRIDGE: CHOF1					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM ₅	PM ₁₀ ₅	PM _{2.5} ₂	
29-7-20	30-7-20	166	79	40	CLOUDY SKY

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: CHOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
13-7-20	7.29	22	32	<2
28-7-20	7.52	28	40	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

CHP:		CHON1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY 2020	07-12-20	56.2	-
JULY 2020	16-7-20	59.8	58.6
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY HLP:		CHON2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY 2020	07-12-20	45.4	-
JULY 2020	16-7-20	49.2	48.3
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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TEST REPORT NO.	RIN/TR/JULY-20/23	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	CHANDRAPUR	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	MAHAKALI UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE MAHAKALI UG: CMUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
14-7-20	15-7-20	98	76	32	18	<10	CLEAR SKY/CALM
28-7-20	29-7-20	82	54	28	12	<10	CLOUDY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

CRC SUBSTATION/FILTER PLANT: CCRUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
14-7-20	15-7-20	139	98	20	12	<10	CLOUDY/CALM
28-7-20	29-7-20	160	110	27	17	<10	CLOUDY / CLAM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

JATWARA MILK SCHEME: CCRUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
14-7-20	15-7-20	137	74	34	24	<10	CLOUDY/CALM
28-7-20	29-7-20	120	67	23	12	<10	CLOUDY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

COLONY: CMUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
15-7-20	16-7-20	96	55	30	18	10	CLEAR SKY/CALM
28-7-20	29-7-20	84	50	40	36	<10	CLOUDY/CALM
NAAQS, 2009		-	100	60	80	80	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
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	2	10	4	2
14-7-20	6.8	24	36	<2
23-7-20	7.09	30	32	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

FAN HOUSE:		CMUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY 2020	14-7-20	69.9	-
JULY 2020	17-7-20	67.5	66.6
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY(MAHAKALI):		CMUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY 2020	15-7-20	45.3	-
JULY 2020	17-7-20	43.1	42.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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TEST REPORT NO.	RIN/TR/JULY-20/24	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	CHANDRAPUR	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	MANA UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE: CMUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11-07-20	12-7-20	100	64	28	24	<10	CLOUDY SKY/CALM
28-7-20	29-7-20	85	55	22	17	<10	CLOUDY SKY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SUBSTATION MANA INCLINE: CMUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
12-07-20	13-7-20	74	45	26	17	<10	CLOUDY SKY/CALM
28-7-20	29-7-20	99	56	31	19	<10	CLOUDY SKY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

COLONY (NANDGAON): CNUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
12-07-20	13-7-20	105	80	36	30	<10	CLOUDY SKY/CALM
29-7-20	30-7-20	130	97	32	28	<10	CLOUDY SKY/CALM
NAAQS, 2009		-	100	60	80	80	

MANA VILLAGE: CMUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
12-07-20	13-7-20	90	48	22	14	<10	CLOUDY SKY/CALM
28-7-20	29-7-20	119	59	28	22	<10	CLOUDY SKY/CALM
NAAQS, 2009		-	100	60	80	80	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
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	2	10	4	2
11-07-20	6.73	26	28	<2
27-7-20	6.94	22	32	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

FAN HOUSE:		CMUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY 2020	12-07-20	71.6	-
JULY 2020	16-7-20	66.2	65.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY(HLP OC):		CHON2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY 2020	12-07-20	45.4	-
JULY 2020	16-7-20	49.2	48.3
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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TEST REPORT NO.	RIN/TR/JULY-20/25	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	CHANDRAPUR	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	NANDGAON UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE NANDGAON UG: CNUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
12-07-20	13-07-20	136	88	34	28	<10	CLOUDY SKY / CALM
29-7-20	30-7-20	122	78	30	23	<10	CLOUDY SKY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SUBSTATION MANA INCLINE: CMUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
12-07-20	13-07-20	74	45	26	17	<10	CLOUDY SKY / CALM
28-7-20	29-7-20	99	56	31	19	<10	CLOUDY SKY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

MANA VILLAGE: CMUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
12-07-20	13-07-20	90	48	22	14	<10	CLOUDY SKY / CALM
28-7-20	29-7-20	119	59	28	22	<10	CLOUDY SKY/CALM
NAAQS, 2009		-	100	60	80	80	

COLONY NANDGAON: CNUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
12-07-20	13-07-20	105	80	36	30	<10	CLOUDY SKY / CALM
29-7-20	30-7-20	130	97	32	28	<10	CLOUDY SKY/CALM
NAAQS, 2009		-	100	60	80	80	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

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	2	10	4	2
12-07-20	7.15	18	24	<2
28-7-20	7.32	26	36	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

FAN HOUSE:		CNUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY 2020	12-07-20	70.3	-
JULY 2020	16-7-20	65.1	64.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY HLP OC:		CHON2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY 2020	12-07-20	45.4	-
JULY 2020	16-7-20	49.2	48.3
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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TEST REPORT NO.	RIN/TR/JULY-20/26	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	CHANDRAPUR	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	PADMAPUR OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE-Q-IV: CPOA1							
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	
14-7-20	15-7-20	102	59	26	12	<10	CLOUDY/CALM
17-7-20	18-7-20	124	68	33	19	<10	CLEAR SKY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

WARWAT VILLAGE: CPOA2							
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	
14-7-20	15-7-20	140	74	34	18	<10	CLOUDY/CALM
17-7-20	18-7-20	137	69	23	14	<10	CLEAR SKY/CALM
NAAQS, 2009		-	100	60	80	80	

KITADI VILLAGE: CPOA3							
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	
14-7-20	15-7-20	115	65	32	28	<10	CLOUDY/CALM
17-7-20	18-7-20	105	55	27	20	<10	CLEAR SKY/CALM
NAAQS, 2009		-	100	60	80	80	

VICHODA RAYATWARI VILLAGE: CPOA4							
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	
14-7-20	15-7-20	155	86	40	32	<10	CLOUDY/CALM
17-7-20	18-7-20	172	99	36	27	<10	CLEAR SKY/CALM
NAAQS, 2009		-	100	60	80	80	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGESECTOR III: CPOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
15-7-20	7.05	26	36	<2
17-7-20	7.47	30	32	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	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	2	10	4	2
15-7-20	7.24	32	40	<2
17-7-20	7.56	28	44	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

CHP: CPON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY 2020	15-7-20	56.2	-
JULY 2020	16-7-20	63.5	62.9
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

DURGAPUR COLONY: CDON2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY 2020	08-07-20	48.7	-
JULY 2020	16-7-20	46.9	45.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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TEST REPORT NO.	RIN/TR/JULY-20/50	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	MAJRI	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	JUNA KUNADA OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

PIT OFFICE: MJOA1							
DATE(dd:mm:yy)OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10-07-20	11-7-20	72	52	22	10	<10	CLOUDY SKY,CALM
24/7/2020	25-7-20	78	50	20	8	<10	CLEAR,CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SAM OFFICE CHARGAON: MJOA2							
DATE(dd:mm:yy)OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10-07-20	11-7-20	60	40	20	16	<10	CLOUDY SKY,CALM
24/7/2020	25-7-20	66	36	22	12	<10	CLEAR,CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

EKTA NAGAR COLONY: MJOA3							
DATE(dd:mm:yy)OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
09-07-20	10-7-20	70	48	30	14	<10	CLOUDY SKY,CALM
23/7/2020	24-7-20	74	50	28	10	<10	CLOUDY,CALM
NAAQS, 2009		-	100	60	80	80	

CHARGAON INTAKE WELL: MJOA4							
DATE(dd:mm:yy)OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10-7-20	11-7-20	82	44	24	12	<10	CLOUDY SKY,CALM
23/7/2020	24-7-20	86	52	26	14	12	CLEAR,CALM
NAAQS, 2009		-	100	60	80	80	



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NOISE LEVEL MONITORING DATA

MANAGER OFFICE:		MJON1
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
JULY 2020	10-7-20	44.7
JULY 2020	23/7/2020	45
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75

EKTA NAGAR COLONY:		MTON2
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
JULY 2020	09-07-20	42.8
JULY 2020	24/7/2020	42.8
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55

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TEST REPORT NO.	RIN/TR/JULY-20/52	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	MAJRI	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	NEW MAJRI-II(A) OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

NMOC SUBSTATION: MMOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
08-07-20	9-7-20	68	39	22	10	<10	CLEAR SKY,LIGHT BREEZE
20/7/2020	21-7-20	74	42	20	12	<10	CLOUDY,CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

PATALA MAGAZINE: MMUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
08-07-20	9-7-20	76	44	26	14	<10	CLEAR SKY,LIGHT BREEZE
22/7/2020	23-7-20	70	38	30	12	<10	CLEAR SKY,CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

PRIMARY HEALTH CENTRE,MAJRI BASTI: MMOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
08-07-20	9-7-20	44	28	16	12	<10	CLEAR SKY,LIGHT BREEZE
20/7/2020	21-7-20	52	34	14	10	<10	CLEAR SKY,CALM
NAAQS, 2009		-	100	60	80	80	

KUCHANA COLONY: MMOA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
08-07-20	9-7-20	72	40	18	10	<10	CLEAR SKY,LIGHT BREEZE
22/7/2020	23-7-20	80	46	20	14	<10	CLEAR SKY,CALM
NAAQS, 2009		-	100	60	80	80	

FUGITIVE DUST MONITORING

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	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LSOP 4		

FIED MINE SHED: MMOF1					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
20-7-20	21-7-20	176	98	52	CLOUDY,CALM

NMOC CHP: MMOF2					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
20-7-20	21-7-20	218	112	56	CLOUDY,CALM

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: MMOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
09-07-20	7.28	34	36	<2
22/7/2020	7.3	30	28	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

ETP: MMOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
09-07-20	8.16	44	40	<2
22/7/2020	8.32	38	32	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

FIELD MINE SHED:		MMON1
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
JULY 2020	08-07-20	53.6
JULY 2020	20/7/2020	55.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75

KUCHNA COLONY:		MMON2
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
JULY 2020	08-07-20	43.6
JULY 2020	20/7/2020	44
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55

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TEST REPORT NO.	RIN/TR/JULY-20/51	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	MAJRI	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	NEW MAJRI UG TO OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

PATALA MAGZINE: MMUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
8-7-20	9-7-20	76	44	26	14	<10	CLEAR SKY,LIGHT BREEZE
22/7/20	23-7-20	70	38	30	12	<10	CLEAR SKY,CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

MANAGER OFFICE UG TO OC: MMUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
9-7-20	10-7-20	64	38	28	10	<10	CLEAR SKY,CALM
22/7/2020	23-7-20	72	42	32	14	<10	CLEAR SKY,CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

CONTRACTOR CAMP: MMUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
9-7-20	10-7-20	88	56	24	12	<10	CLEAR SKY,CALM
23/7/2020	24-7-20	80	64	28	10	<10	CLOUDY,CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SAWARLA VILLAGE: MMUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
9-7-20	10-7-20	68	46	22	10	12	CLEAR SKY,CALM
23/7/2020	24-7-20	60	42	26	12	10	CLOUDY,CALM
NAAQS, 2009		-	100	60	80	80	

FUGITIVE DUST MONITORING

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	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LSOP 4		

RAILWAY SIDING: MMUF1					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM ₅	PM ₁₀ ₅	PM _{2.5} ₂	
22-7-20	23-7-20	240	126	58	CLEAR SKY,CALM

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

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	2	10	4	2
10-7-20	7.57	26	32	<2
22/7/2020	7.64	40	44	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	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	2	10	4	2
10-7-20	8.14	30	36	<2
22/7/2020	8.01	42	40	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

PIT OFFICE: MMUN1		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
	JULY 2020	9-7-20
JULY 2020	22/7/2020	56.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75

COLONY(MAJRI UG TO OC): MMUN2		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
	JULY 2020	9-7-20
JULY 2020	22/7/2020	43.3
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55

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TEST REPORT NO.	RIN/TR/JULY-20/53	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	MAJRI	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	TELWASA OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

TELWASA SECURITY OFFICE: MTOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10-07-20	11-7-20	94	64	26	12	<10	CLOUDY SKY,CALM
24/7/2020	25-7-20	90	70	22	10	<10	CLEAR SKY,CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SAM OFFICE: MTOA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11-7-20	12-7-20	82	48	24	18	<10	CLOUDY SKY,CALM
24/7/2020	25-7-20	88	52	26	20	<10	CLEAR SKY,CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

CHARGAON VILLAGE: MTOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11-7-20	12-7-20	66	40	28	10	<10	CLOUDY SKY,CALM
25/7/2020	26-7-20	72	44	22	12	<10	CLEAR SKY,CALM
NAAQS, 2009		-	100	60	80	80	

EKTA NAGAR COLONY: MJOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
09-07-20	10-7-20	70	48	30	14	<10	CLOUDY SKY,CALM
23/7/2020	24-7-20	74	50	28	10	<10	CLOUDY,CALM
NAAQS, 2009		-	100	60	80	80	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

DET P DISCHARGE: MTOW1		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS (in mg/l)	BOD(in mg/l)
DETECTION LIMIT	10	2
10-7-20	46	12
24/7/2020	46	12
GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS GSR 801E EPA 1993	100	30



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NOISE LEVEL MONITORING DATA

NEAR PIT OFFICE:		MTON1
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
JULY 2020	10-7-20	50.6
JULY 2020	24/7/2020	46
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75

EKTA NAGAR COLONY:		MTON2
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
JULY 2020	09-07-20	42.8
JULY 2020	24/7/2020	42.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55

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TEST REPORT NO.	RIN/TR/JULY-20/54	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	MAJRI	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	YENKONA I & II OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

PIT OFFICE: MYOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11-07-20	12-7-20	110	74	20	12	10	RAINY SKY,CALM
25/7/2020	26-7-20	112	70	22	14	<10	CLEAR,CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

PENZURNI VILLAGE: MYOA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11-07-20	12-7-20	90	70	22	14	<10	RAINY SKY,CALM
25/7/2020	26-7-20	98	66	20	10	<10	CLEAR,CALM
NAAQS, 2009		-	100	60	80	80	

ASHTI VILLAGE: MYOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
12-7-20	13-7-20	68	42	24	16	<10	CLOUDY SKY,CALM
25/7/2020	26-7-20	76	40	26	12	<10	CLEAR,CALM
NAAQS, 2009		-	100	60	80	80	

DANDGAON VILLAGE: MYOA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
12-7-20	13-7-20	80	54	22	14	<10	CLOUDY SKY,CALM
26/7/2020	27-7-20	88	48	20	10	<10	CLEAR,CALM
NAAQS, 2009		-	100	60	80	80	

HIWRA MAJRA VILLAGE: MYOA5							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
12-7-20	13-7-20	90	56	26	16	<10	CLOUDY SKY,CALM
26/7/2020	27-7-20	96	62	30	14	10	CLEAR,CALM
NAAQS, 2009		-	100	60	80	80	

FUGITIVE DUST MONITORING

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	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LSOP 4		

COAL STOCK YARD: MYOF1					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM ₅	PM ₁₀ ₅	PM _{2.5} ₂	
FROM	TO				
12-7-20	13-7-20	202	120	38	CLOUDY SKY,CALM

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

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	2	10	4	2
12-7-20	8.44	52	44	<2
25/7/2020	8.31	42	36	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

PIT OFFICE: MYON1		NOISE LEVEL IN dB(A)
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME
	DETECTION LIMIT	20
JULY 2020	12-7-20	56.2
JULY 2020	25/7/2020	56.3
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75

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TEST REPORT NO.	RIN/TR/JULY-20/1	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	NAGPUR	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	ADASA UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

PROJECT MANAGER OFFICE: NAUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
7-7-20	8-7-20	110	66	28	16	13	CLEAR SKY,CALM
20-7-20	21-7-20	92	60	29	14	<10	CLEAR SKY,CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

AT PATHAKHAKHEDI G.P OFFICE: NAUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
6-7-20	7-7-20	105	64	26	14	10	CLEAR SKY,LIGHT BREEZE
20-7-20	21-7-20	72	42	22	12	<10	CLEAR SKY,CALM
NAAQS, 2009		-	100	60	80	80	

COLONY WATER FILTER PLANT: NSNUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
6-7-20	7-7-20	76	40	21	13	<10	RAINY,LIGHT BREEZE
21-7-20	22-7-20	98	48	25	12	<10	CLOUDY, CALM
NAAQS, 2009		-	100	60	80	80	

KOTODI VILLAGE: NSNUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
7-7-20	8-7-20	92	52	21	11	<10	CLEAR SKY,CALM
21-7-20	22-7-20	72	38	18	12	<10	CLOUDY, CALM
NAAQS, 2009		-	100	60	80	80	



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NOISE LEVEL MONITORING DATA

FAN HOUSE:		NAUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY 2020	07-07-20	52.6	-
JULY 2020	21-07-20	54.3	53.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

MANAGER OFFICE:		NAUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY 2020	07-07-20	56.3	-
JULY 2020	21-07-20	52.6	51.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

COLONY (SAONER):		NAUN3	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY 2020	07-07-20	42.4	-
JULY 2020	21-07-20	41.2	41.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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TEST REPORT NO.	RIN/TR/JULY-20/2	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	NAGPUR	SAMPLING PLAN :	LQR 47
NAME OF PROJECT	BHANE GAON OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD :	LSOP 4		

NEAR MANAGER OFFICE: NBOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
6-7-20	7-7-20	96	54	29	12	<10	RAINY,WINDY
27-7-20	28-7-20	93	68	34	16	11	CLOUDY,WINDY
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

BINA SANGAM TEMPLE: NBOA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
6-7-20	7-7-20	72	42	23	10	<10	RAINY,WINDY
27-7-20	28-7-20	88	48	23	11	<10	CLOUDY,WINDY
NAAQS, 2009		-	100	60	80	80	

BINA VILLAGE: NBOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
6-7-20	7-7-20	74	45	22	11	<10	RAINY,WINDY
27-7-20	28-7-20	86	55	24	12	<10	CLOUDY,WINDY
NAAQS, 2009		-	100	60	80	80	

DORLI VILLAGE: NBOA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
6-7-20	7-7-20	63	39	24	10	<10	RAINY,WINDY
28-7-20	29-7-20	84	42	23	12	<10	CLOUDY,WINDY
NAAQS, 2009		-	100	60	80	80	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

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	2	10	4	2
07-07-20	8.33	30	40	<2
17-7-20	8.2	32	38	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

CONTRACTOR CAMP:		NBON1
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
JULY 2020	07-07-20	48.8
JULY 2020	28-7-20	55.3
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75

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TEST REPORT NO.	RIN/TR/JULY-20/3	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	NAGPUR	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	GONDEGAON OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

NEAR SUBSTATION: NGOA1							
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	
6-7-20	7-7-20	84	56	28	14	<10	RAINY,WINDY
25-7-20	26-7-20	104	65	31	16	12	RAINY,WINDY
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

GONDEGAON VILLAGE SCHOOL: NGOA2							
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	
6-7-20	7-7-20	70	47	27	14	<10	RAINY,WINDY
26-7-20	27-7-20	72	55	26	11	<10	CLOUDY,WINDY
NAAQS, 2009		-	100	60	80	80	

GUEST HOUSE/FILTER PLANT: NGOA3							
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	
6-7-20	7-7-20	70	43	25	12	<10	RAINY,WINDY
26-7-20	27-7-20	92	56	23	12	<10	CLOUDY,WINDY
NAAQS, 2009		-	100	60	80	80	

GHATROHNA VILLAGE: NGOA4							
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	
6-7-20	7-7-20	78	40	26	11	<10	RAINY,WINDY
26-7-20	27-7-20	68	42	28	11	<10	CLOUDY,WINDY
NAAQS, 2009		-	100	60	80	80	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

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	2	10	4	2
07-07-20	7.86	22	28	<2
27-07-20	7.8	20	28	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	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	2	10	4	2
07-07-20	7.76	42	40	<2
28-07-20	7.78	40	44	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

CHP: NGON1		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
	DETECTION LIMIT	DAY TIME
JULY 2020	06-07-20	66.1
JULY 2020	27-07-20	66.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75

COLONY: NGON2		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
	DETECTION LIMIT	DAY TIME
JULY 2020	06-07-20	42.5
JULY 2020	26-07-20	41.6
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55

GHATROHNA VILLAGE: NGON3		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
	DETECTION LIMIT	DAY TIME
JULY 2020	06-07-20	42.2
JULY 2020	26-07-20	42.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55

JUNI KAMPTEE VILLAGE: NGON4		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
	DETECTION LIMIT	DAY TIME
JULY 2020	06-07-20	43.4
JULY 2020	26-07-20	42.6
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55

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TEST REPORT NO.	RIN/TR/JULY-20/4	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	NAGPUR	SAMPLING PLAN :	LQR 47
NAME OF PROJECT	INDER UG TO OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD :	LSOP 4		

NEAR PIT NO.6/MANAGER OFFICE: NIOA1							
DATE(dd:mm:yy)OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
15-7-20	16-7-20	120	70	34	16	12	RAINY,WINDY
24-7-20	25-7-20	89	60	35	16	10	RAINY,WINDY
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

CMPDI TEKADI STORE: NIOA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
15-7-20	16-7-20	78	50	29	12	<10	RAINY,WINDY
24-7-20	25-7-20	98	62	28	14	<10	CLOUDY,WINDY
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

COLONY WATER TREATMENT PLANT: NKCA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
15-7-20	16-7-20	86	54	23	12	<10	RAINY,WINDY
25-7-20	26-7-20	68	41	27	11	<10	RAINY,WINDY
NAAQS, 2009		-	100	60	80	80	

G.P OFFICE KANDRI: NKCA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
15-7-20	16-7-20	69	38	22	14	10	RAINY,WINDY
25-7-20	26-7-20	88	42	27	12	<10	CLOUDY,WINDY
NAAQS, 2009		-	100	60	80	80	

FUGITIVE DUST MONITORING

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	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LSOP 4		

W.BRIDGE: NIOF1					
DATE(dd:mm:yy) AND TIME (12 hr format) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM ₅	PM ₁₀ ₅	PM _{2.5} ₂	
24-7-20	25-7-20	150	98	65	CLOUDY,WINDY

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE DISCHARGE: NIOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
15-7-20	7.76	22	32	<2
25-7-20	7.96	22	36	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

RC OFFICE:NION1		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
	DETECTION LIMIT	DAY TIME
JULY 2020	15-7-20	54.2
JULY 2020	16-7-20	56.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75

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TEST REPORT NO.	RIN/TR/JULY-20/5	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	NAGPUR	SAMPLING PLAN :	LQR 47
NAME OF PROJECT	KAMPTEE DEEP OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD :	LSOP 4		

SUBSTATION: NKCA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
15-7-20	16-7-20	84	64	33	12	<10	RAINY,WINDY
25-7-20	26-7-20	104	60	30	16	11	CLOUDY,WINDY
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

JUNI KAMPTEE VILLAGE: NKCA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
15-7-20	16-7-20	76	40	27	11	<10	RAINY,WINDY
26-7-20	27-7-20	82	47	32	12	<10	CLOUDY,WINDY
NAAQS, 2009		-	100	60	80	80	

COLONY WATER TREATMENT PLANT: NKCA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
15-7-20	16-7-20	86	54	23	12	<10	RAINY,WINDY
25-7-20	26-7-20	68	41	27	11	<10	RAINY,WINDY
NAAQS, 2009		-	100	60	80	80	

G.P. OFFICE KANDRI VILLAGE: NKCA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
15-7-20	16-7-20	69	38	22	14	10	RAINY,WINDY
25-7-20	26-7-20	88	42	27	12	<10	CLOUDY,WINDY
NAAQS, 2009		-	100	60	80	80	

FUGITIVE DUST MONITORING

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	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LSOP 4		

CHP : NKCF1					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM ₅	PM ₁₀ ₅	PM _{2.5} ₂	
15-7-20	16-7-20	202	101	60	RAINY,WINDY

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE DISCHARGE: NKCW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
15-07-20	7.72	22	28	<2
26-07-20	7.72	20	28	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

CHP: NKC1		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
JULY 2020	15-07-20	65.6
JULY 2020	26-07-20	67.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75

COLONY(KAMPTEE): NKC2		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
JULY 2020	15-07-20	42.4
JULY 2020	26-07-20	42.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55

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TEST REPORT NO.	RIN/TR/JULY-20/6	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	NAGPUR	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	PATANSAONGI UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

COLLIERY MANAGER OFFICE: NPTUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
6-7-20	7-7-20	103	65	28	16	11	CLOUDY,WINDY
20-7-20	21-7-20	96	60	30	15	13	CLOUDY,CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SADBHAVAN NAGAR(FILTER PLANT): NPTUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
6-7-20	7-7-20	98	54	25	11	<10	CLOUDY,CALM
20-7-20	21-7-20	78	42	19	13	<10	CLOUDY,CALM
NAAQS, 2009		-	100	60	80	80	

NEAR LCH QR.: NPTUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
6-7-20	7-7-20	86	48	22	11	<10	CLOUDY,WINDY
17-7-20	18-7-20	80	44	29	12	<10	CLOUDY,WINDY
NAAQS, 2009		-	100	60	80	80	

SAVERMENDHA VILLAGE: NPTUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
6-7-20	7-7-20	88	50	23	14	<10	CLOUDY,WINDY
17-7-20	18-7-20	68	40	22	11	<10	CLOUDY,WINDY
NAAQS, 2009		-	100	60	80	80	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE DISCHARGE: NPTUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
07-07-20	8.69	28	40	<2
20-07-20	7.97	28	36	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

FAN HOUSE: NPTUN1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY 2020	06-07-20	65.8	-
JULY 2020	21-07-20	65.4	63.6
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY: NPTUN2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY 2020	06-07-20	43.3	-
JULY 2020	21-07-20	42.3	41.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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TEST REPORT NO.	RIN/TR/JULY-20/7	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	NAGPUR	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	PIPLA UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

NEAR MAGZINE/MANAGER OFFICE: NPUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
6-7-20	7-7-20	106	60	25	11	<10	CLOUDY SKY,WINDY
17-7-20	18-7-20	96	64	30	16	11	CLOUDY SKY,WINDY
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

IN ZONE-4: NPUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
6-7-20	7-7-20	101	62	27	14	<10	CLOUDY SKY,WINDY
16-7-20	17-7-20	84	56	31	15	11	RAINY,WINDY
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

FILTER PLANT: NPUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
6-7-20	7-7-20	100	55	24	13	<10	CLOUDY SKY,WINDY
16-7-20	17-7-20	70	38	25	10	<10	RAINY,WINDY
NAAQS, 2009		-	100	60	80	80	

SHIV MANDIR: NPUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
6-7-20	7-7-20	86	46	22	14	<10	CLOUDY SKY,WINDY
17-7-20	18-7-20	76	40	28	11	<10	CLOUDY SKY,WINDY
NAAQS, 2009		-	100	60	80	80	



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NOISE LEVEL MONITORING DATA

FAN HOUSE: NPUN1		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
	DETECTION LIMIT	DAY TIME
JULY 2020	06-07-20	68.2
JULY 2020	17-07-20	67.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75

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TEST REPORT NO.	RIN/TR/JULY-20/8	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	NAGPUR	SAMPLING PLAN :	LQR 47
NAME OF PROJECT	SAONER UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD :	LSOP 4		

C.M OFFICE:-SAONER-I UG: NSNUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
6-7-20	7-7-20	98	50	23	14	11	RAINY,LIGHT BREEZE
21-7-20	22-7-20	104	57	26	12	<10	CLOUDY,CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

C.M OFFICE:-SAONER-II UG: NSNUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
6-7-20	7-7-20	96	48	24	17	11	RAINY,LIGHT BREEZE
21-7-20	22-7-20	80	51	23	13	11	CLOUDY,CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

COLONY WATER FILTER PLANT: NSNU3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
6-7-20	7-7-20	76	40	21	13	<10	RAINY,LIGHT BREEZE
21-7-20	22-7-20	98	48	25	12	<10	CLOUDY CALM
NAAQS, 2009		-	100	60	80	80	

KOTODI VILLAGE: NSNU4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
7-7-20	8-7-20	92	52	21	11	<10	CLEAR SKY,CALM
21-7-20	22-7-20	72	38	18	12	<10	CLOUDY CALM
NAAQS, 2009		-	100	60	80	80	

FUGITIVE DUST MONITORING

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	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LSOP 4		

RLY.SIDING: NSNUF1					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
7-7-20	8-7-20	180	91	55	CLEAR SKY,CALM

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

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	2	10	4	2
07-07-20	7.96	18	28	<2
21-7-20	8.02	22	32	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	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	2	10	4	2
07-07-20	8.06	26	36	<2
21-7-20	8.08	24	32	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	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	2	10	4	2
07-07-20	7.95	24	32	<2
21-7-20	8	22	32	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

FAN HOUSE-I: NSNUN1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT		20
JULY 2020	07-07-20	67.4	-
JULY 2020	21-7-20	68.7	67.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

FAN HOUSE-II: NSNUN2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT		20
JULY 2020	07-07-20	69.1	-
JULY 2020	21-7-20	69.2	67.8
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

FAN HOUSE-III: NSNUN3			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT		20
JULY 2020	07-07-20	68.5	-
JULY 2020	21-7-20	68.8	67.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

COLONY: NSNUN4			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT		20
JULY 2020	07-07-20	42.4	-
JULY 2020	21-7-20	41.2	41.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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TEST REPORT NO.	RIN/TR/JULY-20/9	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	NAGPUR	SAMPLING PLAN :	LQR 47
NAME OF PROJECT	SILEWARA UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD :	LSOP 4		

WATER FILTER PLANT: NSUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
6-7-20	7-7-20	89	50	22	14	<10	CLOUDY,CALM
16-7-20	17-7-20	70	44	27	11	<10	CLOUDY SKY,WINDY
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

V.T.C SILEWARA: NSUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
6-7-20	7-7-20	88	54	26	11	<10	CLOUDY,CALM
16-7-20	17-7-20	84	52	29	14	11	RAINY,WINDY
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

MANDIR NEAR KANHAN RIVER: NSUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
6-7-20	7-7-20	84	40	20	10	<10	RAINY,CALM
29-7-20	30-7-20	75	45	26	11	<10	CLOUDY SKY,WINDY
NAAQS, 2009		-	100	60	80	80	

CHANKAPUR PUMP HOUSE/COLONY: NSUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
6-7-20	7-7-20	104	55	30	14	<10	CLOUDY,CALM
29-7-20	30-7-20	80	44	24	12	<10	CLOUDY SKY,WINDY
NAAQS, 2009		-	100	60	80	80	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

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	2	10	4	2
07-07-20	7.79	30	44	<2
17-07-20	7.64	28	40	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

FAN HOUSE: NSUN1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY 2020	06-07-20	68.4	-
JULY 2020	16-07-20	69.2	-
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY(SILEWARA): NSUN2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY 2020	06-07-20	42.1	-
JULY 2020	17-07-20	42.6	-
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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TEST REPORT NO.	RIN/TR/JULY-20/10	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	NAGPUR	SAMPLING PLAN :	LQR 47
NAME OF PROJECT	SINGORI OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD :	LSOP 4		

CONTRACTOR CAMP: NSOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
7-7-20	8-7-20	96	62	30	14	<10	RAINY,WINDY
29-7-20	30-7-20	110	68	34	16	10	CLOUDY,WINDY
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SOHALI VILLAGE: NSOA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
7-7-20	8-7-20	80	46	22	10	<10	RAINY,WINDY
29-7-20	30-7-20	79	41	23	13	<10	CLOUDY,WINDY
NAAQS, 2009		-	100	60	80	80	

HINGNA VILLAGE: NSOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
7-7-20	8-7-20	64	38	21	10	<10	RAINY,WINDY
28-7-20	29-7-20	98	48	22	11	<10	CLOUDY,WINDY
NAAQS, 2009		-	100	60	80	80	

DORLI VILLAGE: NBOA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
6-7-20	7-7-20	63	39	24	10	<10	RAINY,WINDY
28-7-20	29-7-20	84	42	23	12	<10	CLOUDY,WINDY
NAAQS, 2009		-	100	60	80	80	

FUGITIVE DUST MONITORING

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	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LSOP 4		

COAL STOCK: NSOF1					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
28-7-20	29-7-20	5	5	2	CLEAR SKY,CALM
		215	82	51	

W.BRIDGE: NSOF2					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
28-7-20	29-7-20	5	5	2	CLEAR SKY,CALM
		180	91	55	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

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	2	10	4	2
07-07-20	7.99	20	28	<2
17-07-20	8.1	18	24	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

CONTRACTOR CAMP:		NSON1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JULY 2020	07-07-20	54.6	-
JULY 2020	17-07-20	50.3	-
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

SOHALI VILLAGE:		NSON2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JULY 2020	07-07-20	41.4	-
JULY 2020	29-07-20	46.1	-
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

DRILING SITE:		NSON3	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JULY 2020	07-07-20	63.1	-
JULY 2020	17-07-20	64.3	-
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

DOSING SITE:		NSON4	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JULY 2020	07-07-20	57.8	-
JULY 2020	17-07-20	58.5	-
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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TEST REPORT NO.	RIN/TR/JULY-20/11	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	UMRER	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	DINESH OCP		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE: UM30A1							
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	
07-07-20	8-7-20	77	57	16	13	14	RAINY SKY,WINDY
23-07-20	24-7-20	84	61	21	14	11	CLOUDY,WINDY
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

NEAR RLY.WEIGHT BRIDGE: UM30A2							
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	
07-07-20	8-7-20	72	53	15	12	<10	RAINY SKY,WINDY
23-07-20	24-7-20	89	62	22	15	11	RAINY SKY,WINDY
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

PIPRADOL VILLAGE: UM30A3							
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	
07-07-20	8-7-20	50	37	10	8	<10	RAINY SKY,WINDY
23-07-20	24-7-20	77	49	27	11	<10	RAINY SKY,WINDY
NAAQS, 2009		-	100	60	80	80	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

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	2	10	4	2
08-07-20	7.19	26	40	<2
23-07-20	7.81	18	28	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	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	2	10	4	2
08-07-20	7.25	18	28	<2
23-07-20	7.83	24	44	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

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NOISE LEVEL MONITORING DATA

NEAR PIT OFFICE:		UM3ON1
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
	DETECTION LIMIT	DAY TIME
JULY 2020	07-07-20	48.6
JULY 2020	17-07-20	56.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75

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TEST REPORT NO.	RIN/TR/JULY-20/12	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	UMRER	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	GOKUL OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

CONTRACTOR CAMP: UGOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
08-07-20	9-7-20	104	77	22	17	<10	CLEAR SKY,LIGHT BREEZE
21-07-20	22-7-20	81	64	22	15	12	CLOUDY, WINDY
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

BESUR VILLAGE: UGOA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
08-07-20	9-7-20	42	31	9	7	<10	CLEAR SKY,LIGHT BREEZE
21-07-20	22-7-20	83	52	26	12	<10	CLOUDY, WINDY
NAAQS, 2009		-	100	60	80	80	

NAND VILLAGE: UGOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
08-07-20	9-7-20	49	36	10	8	<10	CLEAR SKY,LIGHT BREEZE
21-07-20	22-7-20	62	49	24	12	<10	CLOUDY, WINDY
NAAQS, 2009		-	100	60	80	80	

POLGAON VILLAGE: UGOA4							
DATE(dd:mm:yy) AND TIME (12 hr format) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
08-07-20	9-7-20	51	38	11	8	<10	CLEAR SKY,LIGHT BREEZE
21-07-20	22-7-20	67	44	27	11	<10	CLOUDY, WINDY
NAAQS, 2009		-	100	60	80	80	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

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	2	10	4	2
08-07-20	7.66	52	68	<2
21-07-20	7.85	52	68	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	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	2	10	4	2
08-07-20	7.54	50	64	<2
21-07-20	7.16	20	32	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

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NOISE LEVEL MONITORING DATA

CONTRACTOR CAMP:		UGON1
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
JULY 2020	08-07-20	53.9
JULY 2020	17-07-20	54.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75

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TEST REPORT NO.	RIN/TR/JULY-20/14	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	UMRER	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	MAKARDHOKRA-II		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

NEAR MANAGER OFFICE: UMOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
06-07-20	7-7-20	70	52	15	11	<10	RAINY SKY,WINDY
20-07-20	21-7-20	76	49	23	13	<10	CLOUDY,WINDY
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SAM OFFICE: UMOA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
06-07-20	7-7-20	73	54	15	12	<10	RAINY SKY,WINDY
20-07-20	21-7-20	81	60	27	14	11	CLOUDY,WINDY
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

KANWA VILLAGE: UMOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
09-07-20	10-7-20	46	34	10	7	<10	CLEAR SKY,LIGHT BREEZE
22-07-20	23-7-20	69	42	22	10	<10	CLOUDY,WINDY
NAAQS, 2009		-	100	60	80	80	

NEAR PUMP HOUSE COLONY: UMOA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
06-07-20	7-7-20	65	48	13	11	<10	RAINY SKY,WINDY
20-07-20	21-7-20	86	57	28	12	<10	CLOUDY,WINDY
NAAQS, 2009		-	100	60	80	80	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

ETP: UMOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
07-07-20	7.28	24	32	<2
23-07-20	8.01	30	40	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

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NOISE LEVEL MONITORING DATA

NEAR PIT OFFICE:		UMON1
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
	DETECTION LIMIT	DAY TIME
JULY 2020	07-07-20	48.2
JULY 2020	20-07-20	54.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75

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TEST REPORT NO.	RIN/TR/JULY-20/13	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	UMRER	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	MAKARDHOKRA-I OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

PIT OFFICE: UM10A1							
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	
10-07-20	11-7-20	72	53	15	12	<10	CLEAR SKY,LIGHT BREEZE
20-07-20	21-7-20	71	48	30	14	<10	CLOUDY,WINDY
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

KALMANA VILLAGE: UM10A2							
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	
09-07-20	10-7-20	45	33	9	7	<10	CLEAR SKY,LIGHT BREEZE
22-07-20	23-7-20	70	44	19	10	<10	CLOUDY,WINDY
NAAQS, 2009		-	100	60	80	80	

SIRPUR VILLAGE: UM10A3							
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	
09-07-20	10-7-20	47	35	10	8	<10	CLEAR SKY,LIGHT BREEZE
22-07-20	23-7-20	63	42	18	11	<10	CLOUDY,WINDY
NAAQS, 2009		-	100	60	80	80	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: UM1OW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
08-07-20	7.16	26	36	<2
22-07-20	7.9	20	32	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

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NOISE LEVEL MONITORING DATA

NEAR PIT OFFICE:		UM1ON1
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
	DETECTION LIMIT	DAY TIME
JULY 2020	10-07-20	50.3
JULY 2020	20-07-20	54.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75

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TEST REPORT NO.	RIN/TR/JULY-20/15	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	UMRER	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	MORPAR UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

NEAR PIT OFFICE: UMUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11-07-20	12-7-20	107	79	22	17	<10	CLEAR SKY,LIGHT BREEZE
21-07-20	22-7-20	96	70	30	15	<10	CLOUDY,WINDY
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

NEAR MAGZINE BUILDING: UMUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11-07-20	12-7-20	109	81	23	18	<10	CLEAR SKY,LIGHT BREEZE
21-07-20	22-7-20	99	72	26	16	<10	CLOUDY,WINDY
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

COLONY: UMUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11-07-20	12-7-20	43	32	9	7	<10	CLEAR SKY,LIGHT BREEZE
21-07-20	22-7--20	63	43	25	11	<10	CLOUDY,WINDY
NAAQS, 2009		-	100	60	80	80	

MORPAR VILLAGE: UMUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11-07-20	12-7-20	38	28	8	6	<10	CLEAR SKY,LIGHT BREEZE
21-07-20	22-7-20	60	37	17	12	10	CLOUDY,WINDY
NAAQS, 2009		-	100	60	80	80	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

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	2	10	4	2
12-07-20	8.15	26	36	<10
21-07-20	8.17	30	40	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

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NOISE LEVEL MONITORING DATA

FAN HOUSE:		UMUN1
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
JULY 2020	12-07-20	69.6
JULY 2020	16-07-20	68.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75

COLONY:		UMUN2
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
JULY 2020	12-07-20	42.2
JULY 2020	16-07-20	44.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55

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TEST REPORT NO.	RIN/TR/JULY-20/16	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	UMRER	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	UMRER OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

UMRER MANAGER OFFICE: UUOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
FROM	TO	5	5	2	6	10	
07-06-20	7-7-20	68	50	14	11	<10	RAINY SKY,WINDY
23-7-20	24-7-20	74	47	20	13	<10	RAINY SKY,WINDY
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

NEAR WORKSHOP: UUOA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
FROM	TO	5	5	2	6	10	
07-07-20	8-7-20	76	56	16	12	<10	RAINY SKY,WINDY
22-7-20	23-7-20	83	60	27	14	<10	CLOUDY,WINDY
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

KANWA VILLAGE: UUOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
FROM	TO	5	5	2	6	10	
07-09-20	10-7-20	46	34	10	7	<10	CLEAR SKY,LIGHT BREEZE
22-7-20	23-7-20	69	42	22	10	<10	CLOUDY,WINDY
NAAQS, 2009		-	100	60	80	80	

NEAR PUMP HOUSE COLONY: UUOA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
FROM	TO	5	5	2	6	10	
07-06-20	7-7-20	65	48	13	11	<10	RAINY SKY,WINDY
20-7-20	21-7-20	86	57	28	12	<10	CLOUDY,WINDY
NAAQS, 2009		-	100	60	80	80	

FUGITIVE DUST MONITORING

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	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LSOP 4		

CHP: UUOF1					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
10-07-20	11-7-20	130	96	27	CLEAR SKY,LIGHT BREEZE

WEIGHT BRIDGE: UUOF2					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
09-07-20	10-7-20	120	89	25	CLOUDY,WINDY

RAILWAY SIDING: UUOF3					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
24-7-20	25-7-20	145	88	36	CLEAR SKY,LIGHT BREEZE

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: UUOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
07-07-20	7.2	32	44	<2
24-7-20	7.84	18	28	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

ETP: UUOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
07-07-20	7.3	26	36	<2
23-7-20	7.82	34	44	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

STP: UUOW3		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS (in mg/l)	BOD(in mg/l)
DETECTION LIMIT	10	2
07-07-20	52	11.4
23-7-20	56	12
GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS GSR 801E EPA 1993	100	30

R. Annapurna

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NOISE LEVEL MONITORING DATA

CHP:		UUON1
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
	DETECTION LIMIT	DAY TIME
Jul-20	10-07-20	56.3
Jul-20	21-7-20	65.6
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75

COLONY:		UUON2
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
	DETECTION LIMIT	DAY TIME
Jul-20	10-07-20	45.8
Jul-20	21-7-20	42.3
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55

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TEST REPORT NO.	RIN/TR/JULY-20/36	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	WANI	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	GHUGUS OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

ACC PATCH NEAR ACC COLONY: WGOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10-07-20	11-7-20	80	46	18	10	<10	CLOUDY, MODERATE BREEZE
25/7/2020	26-7-20	72	34	20	12	<10	CLOUDY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SAM OFFICE: WGOA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11-7-20	12-7-20	70	52	24	18	<10	HAZE, CALM
26/7/2020	27-7-20	74	58	26	22	<10	CLOUDY, MODERATE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

RAM NAGAR COLONY: WGOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11-7-20	12-7-20	92	54	20	12	<10	HAZE, CALM
26/7/2020	27-7-20	96	52	24	16	<10	CLOUDY, MODERATE
NAAQS, 2009		-	100	60	80	80	

GHUGUS VILLAGE(GP OFFICE): WGOA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11-7-20	12-7-20	100	64	20	12	<10	HAZE, CALM
26/7/2020	27-7-20	76	38	20	12	<10	CLOUDY, MODERATE
NAAQS, 2009		-	100	60	80	80	


FUGITIVE DUST MONITORING

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	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LSOP 4		

CHP: WGO1					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM ₅	PM ₁₀ ₅	PM _{2.5} ₂	
10-07-20	11-7-20	110	62	48	CLOUDY,MODERATE BREEZE

RLY.SIDING: WGO2					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM ₅	PM ₁₀ ₅	PM _{2.5} ₂	
10-07-20	11-7-20	102	58	52	CLOUDY,MODERATE BREEZE


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NOISE LEVEL MONITORING DATA

CHP: WGON1		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
	DETECTION LIMIT	DAY TIME
JULY 2020	10-07-20	64.9
JULY 2020	25/7/2020	64.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75

COLONY(GHUGUS): WGON2		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
	DETECTION LIMIT	DAY TIME
JULY 2020	10-07-20	44.9
JULY 2020	25/7/2020	43.8
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55

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TEST REPORT NO.	RIN/TR/JULY-20/37	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	WANI	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	KOLGAON OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE: WKO1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
14/7/2020	15-7-20	76	50	20	16	<10	CLOUDY,LIGHT BREEZE
17/7/2020	18-7-20	84	52	24	18	<10	LIGHT SUNNY,MODERATE BREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SAM OFFICE: WMOA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
14/7/2020	15-7-20	86	60	20	14	<10	CLOUDY,LIGHT BREEZE
17/7/2020	18-7-20	94	64	22	12	<10	LIGHT SUNNY,MODERATE BREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

KOLGAON VILLAGE: WKO3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
14/7/2020	15-7-20	84	46	18	10	<10	CLOUDY,LIGHT BREEZE
17/7/2020	18-7-20	90	54	22	14	<10	LIGHT SUNNY,MODERATE BREEZE
NAAQS, 2009		-	100	60	80	80	

KAILASHNAGAR TOWNSHIP-FILTER PLANT: WMOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
13/7/2020	14-7-20	88	60	22	14	<10	HAZE,CALM
27/7/2020	28-7-20	94	62	26	16	<10	CLOUDY,LIGHT BREEZE
NAAQS, 2009		-	100	60	80	80	

FUGITIVE DUST MONITORING

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	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LSOP 4		

W. BRIDGE: WKOF1					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM 5	PM ₁₀ 5	PM _{2.5} 2	
14/7/2020	15-7-20	118	62	54	CLOUDY,LIGHT BREEZE

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

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	2	10	4	2
14/7/2020	4.31	30	24	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

MANAGER OFFICE:		WKON1
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
JULY 2020	14/7/2020	55.6
JULY 2020	17/7/2020	55.9
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75

COLONY(MUNGOLI):		WKON2
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
JULY 2020	13/7/2020	43.8
JULY 2020	17/7/2020	43.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55

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TEST REPORT NO.	RIN/TR/JULY-20/38	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	WANI	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	MUNGOLI OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SUBSTATION: WMOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
13/7/2020	14-7-20	94	68	26	12	<10	HAZE,CALM
17/7/2020	18-7-20	88	60	22	10	<10	LIGHT SUNNY,MODERATE BREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SAM OFFICE: WMOA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
14/7/2020	15-7-20	86	60	20	14	<10	CLOUDY,LIGHT BREEZE
17/7/2020	18-7-20	94	64	22	12	<10	LIGHT SUNNY,MODERATE BREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

KAILASHNAGAR TOWNSHIP FILTER PLANT: WMOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
13/7/2020	14-7-20	88	60	22	14	<10	HAZE,CALM
27/7/2020	28-7-20	94	62	26	16	<10	CLOUDY,LIGHT BREEZE
NAAQS, 2009		-	100	60	80	80	

TUBEWELLNEAR SAKHARI VILLAGE: WMOA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
13/7/2020	14-7-20	82	46	20	10	<10	HAZE,CALM
27/7/2020	28-7-20	70	40	18	12	<10	CLOUDY,LIGHT BREEZE
NAAQS, 2009		-	100	60	80	80	

FUGITIVE DUST MONITORING

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	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LSOP 4		

SECURITY CHECK POST: WMOF1					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM ₅	PM ₁₀ ₅	PM _{2.5} ₂	
13/7/2020	14-7-20	134	68	52	HAZE,CALM

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

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	2	10	4	2
13/7/2020	7.68	42	48	<2
17/7/2020	7.54	58	56	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	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	2	10	4	2
13/7/2020	6.9	38	32	<2
17/7/2020	6.78	36	40	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

CHP: WMON1		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
	DETECTION LIMIT	DAY TIME
JULY 2020	13/7/2020	64.7
JULY 2020	17/7/2020	64.9
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75

COLONY(MUNGOLI): WMON2		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
	DETECTION LIMIT	DAY TIME
JULY 2020	13/7/2020	43.8
JULY 2020	17/7/2020	43.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55

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TEST REPORT NO.	RIN/TR/JULY-20/39	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	WANI	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	NAIGAON OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SAM OFFICE: WNGOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
08-07-20	9-7-20	74	56	28	10	<10	SUNNY,CALM
25/7/2020	26-7-20	70	52	20	12	<10	CLOUDY,CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

WORKSHOP ETP NOCM-1: WNOA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
9-7-20	10-7-20	98	56	20	16	<10	CLOUDY,LIGHT BREEZE
20/7/2020	21-7-20	90	52	16	12	<10	CLOUDY,CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

BELORA REHABILITATION VILLAGE: WNGOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
9-7-20	10-7-20	62	38	14	12	<10	CLOUDY,LIGHT BREEZE
25/7/2020	26-7-20	68	40	18	14	<10	CLOUDY,CALM
NAAQS, 2009		-	100	60	80	80	

FILTER PLANT NEAR VIP GUEST HOUSE: WNGOA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10-7-20	11-7-20	78	40	16	12	<10	CLOUDY,MODERATE BREEZE
25/7/2020	26-7-20	84	46	20	16	<10	CLOUDY,CALM
NAAQS, 2009		-	100	60	80	80	



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NOISE LEVEL MONITORING DATA

CHP: WNGON1		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
	DETECTION LIMIT	20
JULY 2020	9-7-20	63.5
JULY 2020	25/7/2020	65.9
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75

COLONY(GHUGUS): WGON2		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
	DETECTION LIMIT	20
JULY 2020	10-7-20	44.9
JULY 2020	25/7/2020	43.8
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-20/40	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	WANI	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	NILJAI DEEP		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

CIVIL OFFICE-NILJAI: WNOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
		5	5	2	6	10	
09-07-20	10-7-20	142	100	32	18	<10	CLOUDY,LIGHT BREEZE
20/7/2020	21-7-20	126	92	30	14	10	CLOUDY,CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

WORKSHOP ETP NOCM: WNOA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
		5	5	2	6	10	
09-07-20	10-7-20	98	56	20	16	<10	CLOUDY,LIGHT BREEZE
20/7/2020	21-7-20	90	52	16	12	<10	CLOUDY,CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

NILJAI COLONY: WNOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
		5	5	2	6	10	
08-07-20	9-7-20	82	54	26	18	<10	SUNNY,CALM
20/7/2020	21-7-20	74	48	22	14	<10	CLOUDY,CALM
NAAQS, 2009		-	100	60	80	80	

TARODA VILLAGE: WNOA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
		5	5	2	6	10	
08-07-20	9-7-20	100	72	30	10	<10	SUNNY,CALM
20/7/2020	21-7-20	94	66	24	8	<10	CLOUDY,CALM
NAAQS, 2009		-	100	60	80	80	

FUGITIVE DUST MONITORING

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	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LSOP 4		

CHP: WNOF1					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
08-07-20	9-7-20	132	70	40	SUNNY,CALM

WEIGHT BRIDGE: WNOF2					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
9-7-20	10-7-20	148	78	54	CLOUDY,LIGHT BREEZE

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

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	2	10	4	2
20/7/2020	4.88	46	44	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	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	2	10	4	2
9-7-20	6.68	30	32	<2
20/7/2020	8.32	38	32	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

STP(DOMESTIC EFFLUENT)T.WATER: WNOW3		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS (in mg/l)	BOD(in mg/l)
DETECTION LIMIT	10	2
9-7-20	58	16
20/7/2020	52	14
GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS GSR 801E EPA 1993	100	30



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NOISE LEVEL MONITORING DATA

CHP-NILJAI WNON1		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
	DETECTION LIMIT	20
JULY 2020	08-07-20	64.6
JULY 2020	20/7/2020	63.9
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75

CHP-NILJAI(S) WNON2		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
	DETECTION LIMIT	20
JULY 2020	08-07-20	63.9
JULY 2020	20/7/2020	64.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55

COLONY(NILJAI) WNON3		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
		DAY TIME
	DETECTION LIMIT	20
JULY 2020	08-07-20	43.8
JULY 2020	20/7/2020	44.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55

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TEST REPORT NO.	RIN/TR/JULY-20/41	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	WANI	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	PENGANGA OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE: WPOA1							
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	
11-07-20	12-7-20	64	46	24	10	<10	HAZE,CALM
26/7/2020	27-7-20	76	50	22	12	<10	CLOUDY SKY,MODERATE BREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

NEAR MINE: WPOA2							
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	
12-7-20	13-7-20	80	52	28	22	<10	HAZE,LIGHT BREEZE
27/7/2020	28-7-20	88	54	26	20	<10	CLOUDY SKY,LIGHT BREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

VIRUR VILLAGE: WPOA3							
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	
12-7-20	13-7-20	76	52	28	14	<10	HAZE,LIGHT BREEZE
27/7/2020	28-7-20	84	58	30	18	10	CLOUDY SKY,LIGHT BREEZE
NAAQS, 2009		-	100	60	80	80	

GADEGAON VILLAGE: WPOA4							
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	
12-7-20	13-7-20	76	38	20	12	<10	HAZE,LIGHT BREEZE
27/7/2020	28-7-20	88	44	22	16	<10	CLOUDY SKY,LIGHT BREEZE
NAAQS, 2009		-	100	60	80	80	

FUGITIVE DUST MONITORING

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	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LSOP 4		

NEAR KARGIL CHOWK: WPOF1					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM ₅	PM ₁₀ ₅	PM _{2.5} ₂	
FROM	TO				
12-7-20	13-7-20	100	56	50	HAZE,LIGHT BREEZE

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

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	2	10	4	2
12-7-20	7.63	34	28	<2
26/7/2020	7.81	26	24	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



Analysed by



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NOISE LEVEL MONITORING DATA

WORKSHOP: WPON1		NOISE LEVEL IN dB(A)
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME
	DETECTION LIMIT	20
JULY 2020	11-07-20	56.2
JULY 2020	26/7/2020	56.8
NOISE POLLUTION (REGULATION AND CONTROL) RULES		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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4	NOISE LEVEL DATA	6

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

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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 µg/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 µg/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 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: WNJOA4					
DATE OF SAMPLING	PARAMETERS (24 hourly values in µg/m ³)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
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

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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 5
NAME OF PROJECT	KOLARPIMPRI OC	SAMPLING PLAN	LQR 47

MINE WATER DISCHARGE: WNKOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	0.2	10	36	2
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 $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-06-20	78	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 $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-06-20	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 $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
06-06-20	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 $\mu\text{g}/\text{m}^3$)				
	SPM	PM ₁₀	PM _{2.5}	NO _x	SO ₂
DETECTION LIMIT	5	5	2	6	10
09-06-20	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

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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

J. Shrivastava

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Deepanshu Sahu

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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

CMPDI

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

AN ISO 9001:2015 COMPANY

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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

CMPDI

**REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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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


 J. Shrivastava
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 DEEPANSHU SAHU
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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

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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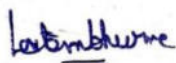
TEST REPORT NO.	RIN/TR/JULY-20/68	DATE OF ISSUE	31.08.2020
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance 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	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	AMBARA OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE: KAOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
17-Jul-20	18-Jul-20	85	68	27	13	<10	CLOUDY SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

PIT OFFICE-MOHAN: KAUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
17-Jul-20	18-Jul-20	80	58	27	12	<10	CLOUDY SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

COLONY HEALTH CENTER: KMUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
16-Jul-20	17-Jul-20	83	60	33	15	<10	CLOUDY SKY, CALM
NAAQS, 2009		-	100	60	80	80	

AMBARA VILLAGE: KMUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11-Jul-20	12-Jul-20	70	52	25	11	<10	CLOUDY SKY, CALM
17-Jul-20	18-Jul-20	92	61	28	16	11	CLOUDY SKY, CALM
NAAQS, 2009		-	100	60	80	80	


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FUGITIVE DUST MONITORING

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	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LSOP 4		


CHKAOF1					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
16-Jul-20	17-Jul-20	116	76	49	CLOUDY SKY, CALM

PALACHAURI SIDINCKAOF2					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
16-Jul-20	17-Jul-20	142	91	60	CLOUDY SKY, CALM

NOISE LEVEL MONITORING DATA

MANAGER OFFICE: KAON1		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
	JULY.2020	15-Jul-20
JULY.2020	16-Jul-20	47.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75

COLONY(MOHAN/MAORI): KMUN2		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
	JULY.2020	15-Jul-20
JULY.2020	16-Jul-20	45.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55

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TEST REPORT NO.	RIN/TR/JULY-20/69	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	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	AMBARA UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SAM OFFICE-AMBARA: KAUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
16-Jul-20	17-Jul-20	77	56	30	15	11	CLOUDY SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

PIT OFFICE-MOHAN: KAUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
17-Jul-20	18-Jul-20	80	58	27	12	<10	CLOUDY SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

COLONY HEALTH CENTER: KMUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
16-Jul-20	17-Jul-20	83	60	33	15	<10	CLOUDY SKY, CALM
NAAQS, 2009		-	100	60	80	80	

AMBARA VILLAGE: KMUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11-Jul-20	12-Jul-20	70	52	25	11	<10	CLOUDY SKY, CALM
17-Jul-20	18-Jul-20	92	61	28	16	11	CLOUDY SKY, CALM
NAAQS, 2009		-	100	60	80	80	

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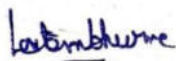
NOISE LEVEL MONITORING DATA

COLONY MOHAN/MAORI: KMUN2		NOISE LEVEL IN dB(A)
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME
	DETECTION LIMIT	20
JULY.2020	15-Jul-20	44.9
JULY.2020	16-Jul-20	45.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-20/70	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	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	AREA WORKSHOP		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

AREA WORKSHOP: KAWA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
FROM	TO	5	5	2	6	10	CLOUDY SKY, CALM
17-Jul-20	18-Jul-20	87	55	23	14	<10	
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	



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NOISE LEVEL MONITORING DATA

W/S PREMISES KAWN1		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
JULY.2020	15-Jul-20	43.9
JULY.2020	17-Jul-20	44.9
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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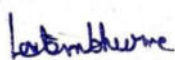
TEST REPORT NO.	RIN/TR/JULY-20/71	DATE OF ISSUE	31.08.2020
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance 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	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	DAMUA OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

OC OFFICE: KDOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
15-Jul-20	16-Jul-20	69	50	33	17	11	RAINY , CALM
28-Jul-20	29-Jul-20	77	55	29	13	<10	CLOUDY SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SAM OFFICE-DAMUA: KDUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
14-Jul-20	15-Jul-20	84	56	23	12	<10	CLOUDY SKY, CALM
27-Jul-20	28-Jul-20	79	62	29	17	11	CLOUDY SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

RESCUE STATION(NEAR INCLINE 24&25): KDUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
14-Jul-20	15-Jul-20	75	51	22	18	<10	CLOUDY SKY, CALM
27-Jul-20	28-Jul-20	86	64	30	17	11	CLOUDY SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

NANDORA VILLAGE: KDUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
15-Jul-20	16-Jul-20	70	59	27	15	<10	CLOUDY SKY, CALM
28-Jul-20	29-Jul-20	82	51	31	18	12	CLOUDY SKY, CALM
NAAQS, 2009		-	100	60	80	80	


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NOISE LEVEL MONITORING DATA

NEAR MANAGER OFFICE: KDON1		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
JULY.2020	14-Jul-20	44.9
JULY.2020	28-Jul-20	45.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75

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TEST REPORT NO.	RIN/TR/JULY-20/72	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	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	DAMUA UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SAM OFFICE-DAMUA: KDUA1							
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	
14-Jul-20	15-Jul-20	84	56	23	12	<10	CLOUDY SKY, CALM
27-Jul-20	28-Jul-20	79	62	29	17	11	CLOUDY SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

RESCUE STATION(NEAR INCLINE 24&25): KDUA2							
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	
14-Jul-20	15-Jul-20	75	51	22	18	<10	CLOUDY SKY, CALM
27-Jul-20	28-Jul-20	86	64	30	17	11	CLOUDY SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

NANDORA VILLAGE: KDUA3							
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	
15-Jul-20	16-Jul-20	70	59	27	15	<10	CLOUDY SKY, CALM
28-Jul-20	29-Jul-20	82	51	31	18	12	CLOUDY SKY, CALM
NAAQS, 2009		-	100	60	80	80	

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NOISE LEVEL MONITORING DATA

COLONY(DAMUA):		KDUN1
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)
	DETECTION LIMIT	DAY TIME
JULY.2020	14-Jul-20	44.1
JULY.2020	28-Jul-20	49.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75

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TEST REPORT NO.	RIN/TR/JULY-20/73	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	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	GHORAWARI OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE-OC: KGOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
29-Jul-20	30-Jul-20	84	52	28	12	<10	CLOUDY SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SAM-OFFICE GHORAWARI: KJUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
15-Jul-20	16-Jul-20	94	53	22	16	11	RAINY, CALM
28-Jul-20	29-Jul-20	70	43	27	15	<10	CLOUDY SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

COLONY-HEALTH CENTER JHARNA: KJUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
29-Jul-20	30-Jul-20	85	59	30	14	<10	CLOUDY SKY, CALM
NAAQS, 2009		-	100	60	80	80	

PANARA VILLAGE: KJUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
29-Jul-20	30-Jul-20	71	47	29	11	<10	CLOUDY SKY, CALM
NAAQS, 2009		-	100	60	80	80	

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FUGITIVE DUST MONITORING


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	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LSOP 4		

WEIGHING BRIDG KGOF1					
DATE(dd:mm:yy)) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
29-Jul-20	30-Jul-20	125	83	53	CLOUDY SKY, CALM

NOISE LEVEL MONITORING DATA

MANAGER OFFICE: KGON1		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
	JULY.2020	15-Jul-20
JULY.2020	29-Jul-20	46.6
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75

COLONY(JHARNA): KJUN2		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
	JULY.2020	15-Jul-20
JULY.2020	28-Jul-20	44.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55

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TEST REPORT NO.	RIN/TR/JULY-20/74	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	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	JHARNA/GHORAWARI UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE: KJUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
15-Jul-20	16-Jul-20	71	47	26	14	<10	RAINY, CALM
28-Jul-20	29-Jul-20	83	57	31	16	<10	CLOUDY SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SAM OFFICE: KJUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
15-Jul-20	16-Jul-20	94	53	22	16	11	RAINY, CALM
28-Jul-20	29-Jul-20	70	43	27	15	<10	CLOUDY SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

COLONY HEALTH CENTER: KJUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
29-Jul-20	30-Jul-20	85	59	30	14	<10	CLOUDY SKY, CALM
NAAQS, 2009		-	100	60	80	80	

PANARA VILLAGE: KJUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
29-Jul-20	30-Jul-20	71	47	29	11	<10	CLOUDY SKY, CALM
NAAQS, 2009		-	100	60	80	80	

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NOISE LEVEL MONITORING DATA

FAN HOUSE: KJUN1		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
JULY.2020	15-Jul-20	68.6
JULY.2020	28-Jul-20	68.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75

COLONY: KJUN2		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
JULY.2020	15-Jul-20	44.2
JULY.2020	28-Jul-20	44.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55

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TEST REPORT NO.	RIN/TR/JULY-20/75	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	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	MOHAN/MAORI UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SAM OFFICE: KAUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
16-Jul-20	17-Jul-20	77	56	30	15	11	CLOUDY SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

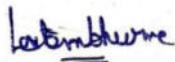
PIT-OFFICE-MOHAN: KAUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
17-Jul-20	18-Jul-20	80	58	27	12	<10	CLOUDY SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

COLONY HEALTH CENTER: KMUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
16-Jul-20	17-Jul-20	83	60	33	15	<10	CLOUDY SKY, CALM
NAAQS, 2009		-	100	60	80	80	

AMBARA VILLAGE: KMUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11-Jul-20	12-Jul-20	70	52	25	11	<10	CLOUDY SKY, CALM
17-Jul-20	18-Jul-20	92	61	28	16	11	CLOUDY SKY, CALM
NAAQS, 2009		-	100	60	80	80	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: KMUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
15-Jul-20	7.33	42	32	<2
16-Jul-20	7.03	50	44	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

FAN HOUSE: KMUN1		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
	JULY.2020	15-Jul-20
JULY.2020	16-Jul-20	67.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75

COLONY(MOHAN MAORI): KMUN2		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
	JULY.2020	15-Jul-20
JULY.2020	16-Jul-20	45.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55

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TEST REPORT NO.	RIN/TR/JULY-20/76	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	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	NANDAN UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SAM OFFICE-NANDAN I UG: KNUA1							
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	
13-Jul-20	14-Jul-20	63	46	34	10	<10	CLOUDY SKY, CALM
26-Jul-20	27-Jul-20	71	55	30	12	<10	CLOUDY SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

PIT OFFICE NANADAN II UG: KNUA2							
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	
14-Jul-20	15-Jul-20	72	60	26	9	<10	CLOUDY SKY, CALM
27-Jul-20	28-Jul-20	88	47	33	16	11	CLOUDY SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

HEALTH CENTER-NANADAN UG: KNUA3							
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	
14-Jul-20	15-Jul-20	72	49	23	15	<10	CLOUDY SKY, CALM
27-Jul-20	28-Jul-20	78	58	27	13	<10	CLOUDY SKY, CALM
NAAQS, 2009		-	100	60	80	80	

NANDAN WATER FILTER PLANT: KNWA4							
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	
13-Jul-20	14-Jul-20	81	56	28	19	11	CLOUDY SKY, CALM
26-Jul-20	27-Jul-20	92	49	32	14	<10	CLOUDY SKY, CALM
NAAQS, 2009		-	100	60	80	80	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: KNUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
13-Jul-20	7.51	34	32	<2
26-Jul-20	7.72	24	28	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

FAN HOUSE UG II: KNUN1		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
JULY.2020	13-Jul-20	59.7
JULY.2020	26-Jul-20	59.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75

COLONY: KNUN2		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
JULY.2020	13-Jul-20	44.2
JULY.2020	26-Jul-20	43.8
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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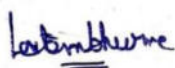
TEST REPORT NO.	RIN/TR/JULY-20/77	DATE OF ISSUE	31.08.2020
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/588-615 DATED: 15.06.20		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance 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	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	NANDAN WASHERY		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SUBSTATION: KNWA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
13-Jul-20	14-Jul-20	83	52	32	10	<10	CLOUDY SKY, CALM
26-Jul-20	27-Jul-20	92	64	29	11	<10	CLOUDY SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SAM OFFICE NANDAN I UG: KNUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
13-Jul-20	14-Jul-20	63	46	34	10	<10	CLOUDY SKY, CALM
26-Jul-20	27-Jul-20	71	55	30	12	<10	CLOUDY SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

COLONY GUEST HOUSE: KNWA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
13-Jul-20	14-Jul-20	77	44	27	14	<10	CLOUDY SKY, CALM
26-Jul-20	27-Jul-20	88	51	27	16	11	CLOUDY SKY, CALM
NAAQS, 2009		-	100	60	80	80	

NANDAN WATER FILTER PLANT: KNWA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
13-Jul-20	14-Jul-20	81	56	28	19	11	CLOUDY SKY, CALM
26-Jul-20	27-Jul-20	92	49	32	14	<10	CLOUDY SKY, CALM
NAAQS, 2009		-	100	60	80	80	


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NOISE LEVEL MONITORING DATA

WASHERY: KNWN1		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
JULY.2020	13-Jul-20	44.7
JULY.2020	26-Jul-20	44.9
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75

COLONY(NANDAN WASHERY): KNWN2		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
JULY.2020	13-Jul-20	44.4
JULY.2020	26-Jul-20	45.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55

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TEST REPORT NO.	RIN/TR/JULY-20/78	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	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	TANDSI UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

WORKSHOP: KTUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
12-Jul-20	13-Jul-20	83	56	24	14	<10	CLOUDY SKY, CALM
25-Jul-20	26-Jul-20	75	48	27	17	<10	CLOUDY SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

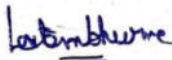
LAMP ROOM: KTUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
12-Jul-20	13-Jul-20	65	47	31	14	<10	CLOUDY SKY, CALM
25-Jul-20	26-Jul-20	75	59	33	13	<10	CLOUDY SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

COLONY NEAR HEALTH CENTER: KTUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
12-Jul-20	13-Jul-20	92	49	27	15	<10	CLOUDY SKY, CALM
25-Jul-20	26-Jul-20	88	56	24	16	11	CLOUDY SKY, CALM
NAAQS, 2009		-	100	60	80	80	

JET HOSTEL: KTUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
12-Jul-20	13-Jul-20	74	44	28	16	12	CLOUDY SKY, CALM
25-Jul-20	26-Jul-20	82	49	30	15	<10	CLOUDY SKY, CALM
NAAQS, 2009		-	100	60	80	80	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: KTUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
12-Jul-20	7.72	24	36	<2
25-Jul-20	7.83	22	32	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

FAN HOUSE: KTUN1		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
JULY.2020	12-Jul-20	69.6
JULY.2020	25-Jul-20	70.6
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75

COLONY(TANDSI): KTUN2		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
JULY.2020	12-Jul-20	44.7
JULY.2020	25-Jul-20	44.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55

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TEST REPORT NO.	RIN/TR/JULY-20/55	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	BARKUI OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE: PBOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
8-Jul-20	9-Jul-20	132	74	36	24	<10	CLEAR SKY , CALM
22-Jul-20	23-Jul-20	138	78	42	28	10	CLOUDY SKY , CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SAM OFFICE: PBOA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
8-Jul-20	9-Jul-20	182	136	44	26	13	CLEAR SKY , CALM
22-Jul-20	23-Jul-20	188	142	46	28	14	CLOUDY SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

CHANDAMETA WORKSHOP: PCWA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
8-Jul-20	9-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	

CENTRAL SCHOOL: PBOA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
8-Jul-20	9-Jul-20	78	44	19	11	<10	CLEAR SKY , CALM
22-Jul-20	23-Jul-20	82	48	24	13	<10	CLOUDY SKY, CALM
NAAQS, 2009		-	100	60	80	80	

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FUGITIVE DUST MONITORING

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	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LSOP 4		

WEIGHING BRIDG PBOF1					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
23-Jul-20	24-Jul-20	5 232	5 166	2 68	CLEAR SKY, CALM

NOISE LEVEL MONITORING DATA

NEAR BARKUI HOSPITAL: PBON1		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY.2020	8-Jul-20	53.6	-
JULY.2020	25-Jul-20	52.4	51.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

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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	


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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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TEST REPORT NO.	RIN/TR/JULY-20/57	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	CHINDA OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SAM OFFICE: PCOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
9-Jul-20	10-Jul-20	122	65	27	17	10	CLOUDY SKY, LIGHT BREEZE
24-Jul-20	25-Jul-20	128	67	29	19	11	CLEAR SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

CHINDA OC SITE: PCOA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
9-Jul-20	10-Jul-20	186	138	45	24	13	CLOUDY SKY, LIGHT BREEZE
24-Jul-20	25-Jul-20	192	142	52	28	15	CLEAR SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

CHINDA VILLAGE: PCOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10-Jul-20	11-Jul-20	68	45	18	10	<10	CLOUDY SKY, LIGHT BREEZE
24-Jul-20	25-Jul-20	72	48	22	12	<10	CLEAR SKY, CALM
NAAQS, 2009		-	100	60	80	80	

CHINDA COLONY: PS0A2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10-Jul-20	11-Jul-20	86	62	34	16	11	CLOUDY SKY, LIGHT BREEZE
27-Jul-20	28-Jul-20	88	66	36	18	13	CLEAR SKY, CALM
NAAQS, 2009		-	100	60	80	80	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

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	2	10	4	2
10-Jul-20	7.92	14	24	<2
24-Jul-20	7.71	16	28	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

NEAR MANAGER OFFICE:		PCON1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY.2020	9-Jul-20	44.5	-
JULY.2020	25-Jul-20	43.2	42.8
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY CHINDA:		PCON2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY.2020	9-Jul-20	43.4	-
JULY.2020	25-Jul-20	44.2	43.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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TEST REPORT NO.	RIN/TR/JULY-20/58	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	GANPATI UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

LAMP ROOM: PGUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11-Jul-20	12-Jul-20	110	72	28	16	10	CLOUDY SKY, CALM
27-Jul-20	28-Jul-20	116	82	38	22	13	CLEAR SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

MANAGER OFFICE: PMUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
9-Jul-20	10-Jul-20	116	64	29	19	10	CLEAR SKY, CALM
23-Jul-20	24-Jul-20	122	68	32	21	11	CLEAR SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

COLONY EDC-DISPENSARY: PGUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10-Jul-20	11-Jul-20	108	82	36	22	13	CLOUDY SKY, CALM
27-Jul-20	28-Jul-20	112	78	32	19	11	CLEAR SKY, CALM
NAAQS, 2009		-	100	60	80	80	

GUEST HOUSE-PARASIA: PMUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
9-Jul-20	10-Jul-20	67	48	17	11	<10	CLEAR SKY, CALM
23-Jul-20	24-Jul-20	72	46	19	14	<10	CLEAR SKY, CALM
NAAQS, 2009		-	100	60	80	80	

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FUGITIVE DUST MONITORING

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	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LSOP 4		

EDC SIDINI PGUF2					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
11-Jul-20	12-Jul-20	224	162	64	CLEAR SKY, CALM

NOISE LEVEL MONITORING DATA

FAN HOUSE: PGUN1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY.2020	10-Jul-20	43.7	-
JULY.2020	25-Jul-20	46.3	45.8
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY: PGUN2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY.2020	11-Jul-20	47.4	-
JULY.2020	25-Jul-20	44.2	43.6
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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TEST REPORT NO.	RIN/TR/JULY-20/59	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	JAMUNIA UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE: PJUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
15-Jul-20	16-Jul-20	120	54	21	11	<10	RAINY, CALM
17-Jul-20	18-Jul-20	124	58	23	13	<10	RAINY, LIGHT BREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SUBSTATION: PJUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
15-Jul-20	16-Jul-20	132	78	32	20	<10	RAINY, CALM
17-Jul-20	18-Jul-20	134	82	34	22	<10	RAINY, LIGHT BREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

JAMUNIA VILLAGE: PJUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
15-Jul-20	16-Jul-20	78	58	21	11	<10	RAINY, CALM
17-Jul-20	18-Jul-20	82	62	24	12	<10	RAINY, CALM
NAAQS, 2009		-	100	60	80	80	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: PIJW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
15-Jul-20	8.18	16	24	<2
16-Jul-20	8.13	18	28	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

J. Shary

Analysed by


Deepanshu sahu

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NOISE LEVEL MONITORING DATA

MANAGER OFFICE: PJUN1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY.2020	15-Jul-20	53.3	-
JULY.2020	27-Jul-20	52.5	51.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

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TEST REPORT NO.	RIN/TR/JULY-20/60	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	MAHADEOPURI UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE: PMUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
9-Jul-20	10-Jul-20	116	64	29	19	10	CLEAR SKY, CALM
23-Jul-20	24-Jul-20	122	68	32	21	11	CLEAR SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

LAMP ROOM: PGUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11-Jul-20	12-Jul-20	110	72	28	16	10	CLOUDY SKY, CALM
27-Jul-20	28-Jul-20	116	82	38	22	13	CLEAR SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

GUEST HOUSE PARASIA: PGUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
9-Jul-20	10-Jul-20	67	48	17	11	<10	CLEAR SKY, CALM
23-Jul-20	24-Jul-20	72	46	19	14	<10	CLEAR SKY, CALM
NAAQS, 2009		-	100	60	80	80	

COLONY EDC DISPENSARY: PMUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10-Jul-20	11-Jul-20	108	82	36	22	13	CLOUDY SKY, CALM
27-Jul-20	28-Jul-20	112	78	32	19	11	CLEAR SKY, CALM
NAAQS, 2009		-	100	60	80	80	

FUGITIVE DUST MONITORING

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	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LSOP 4		

COAL STOCK BUNKEIPMUF1					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
23-Jul-20	24-Jul-20	5 246	5 172	2 74	CLOUDY SKY, LIGHT BREEZE

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

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	2	10	4	2
9-Jul-20	7.53	18	28	<2
23-Jul-20	7.86	14	24	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

J. Shrivastava

Analysed by

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NOISE LEVEL MONITORING DATA

FAN HOUSE: PMUN1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY.2020	9-Jul-20	67.6	-
JULY.2020	25-Jul-20	66.5	66.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY: PMUN2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY.2020	9-Jul-20	45.5	-
JULY.2020	25-Jul-20	44.3	43.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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TEST REPORT NO.	RIN/TR/JULY-20/61	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	NEHARIA UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SAM OFFICE: PNUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
14-Jul-20	15-Jul-20	168	134	36	26	15	CLOUDY SKY, CALM
16-Jul-20	17-Jul-20	172	138	38	28	17	CLOUDY SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

LAMP ROOM/SUBSTATION: PNUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
14-Jul-20	15-Jul-20	186	136	38	26	16	CLOUDY SKY, CALM
16-Jul-20	17-Jul-20	188	138	42	28	18	CLOUDY SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

NEHARIA VILLAGE: PNUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
14-Jul-20	15-Jul-20	78	42	23	17	10	CLOUDY SKY, CALM
16-Jul-20	17-Jul-20	82	46	25	19	11	CLOUDY SKY, CALM
NAAQS, 2009		-	100	60	80	80	

BOKAI TOWNSHIP: PNUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
14-Jul-20	15-Jul-20	124	86	32	19	13	CLOUDY SKY, CALM
16-Jul-20	17-Jul-20	128	92	36	21	14	CLOUDY SKY, CALM
NAAQS, 2009		-	100	60	80	80	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

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	2	10	4	2
14-Jul-20	8.13	26	36	<2
16-Jul-20	7.81	24	32	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

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Analysed by

Deepanshu sahu

Deepanshu sahu
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NOISE LEVEL MONITORING DATA

FAN HOUSE: PNUN1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY.2020	13-Jul-20	68.9	-
JULY.2020	27-Jul-20	69.3	68.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY: PNUN2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY.2020	13-Jul-20	43.5	-
JULY.2020	27-Jul-20	43.3	42.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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TEST REPORT NO.	RIN/TR/JULY-20/62	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	NEW SETHIA OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

NEW SETHIA OC SITE: PSOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10-Jul-20	11-Jul-20	192	142	49	32	16	CLOUDY SKY, LIGHT BREEZE
24-Jul-20	25-Jul-20	196	146	53	34	18	CLEAR SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SAM OFFICE: PCOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
9-Jul-20	10-Jul-20	122	65	27	17	10	CLOUDY SKY, LIGHT BREEZE
24-Jul-20	25-Jul-20	128	67	29	19	11	CLEAR SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

CHINDA VILLAGE: PCOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10-Jul-20	11-Jul-20	68	45	18	10	<10	CLOUDY SKY, LIGHT BREEZE
24-Jul-20	25-Jul-20	72	48	22	12	<10	CLEAR SKY, CALM
NAAQS, 2009		-	100	60	80	80	

CHINDA COLONY: PSOA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10-Jul-20	11-Jul-20	86	62	34	16	11	CLOUDY SKY, LIGHT BREEZE
27-Jul-20	28-Jul-20	88	66	36	18	13	CLEAR SKY, CALM
NAAQS, 2009		-	100	60	80	80	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

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	2	10	4	2
10-Jul-20	8.00	22	28	<2
26-Jul-20	7.51	18	32	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

NEAR MANAGER OFFICE: PSON1		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY.2020	10-Jul-20	54.6	-
JULY.2020	25-Jul-20	54.4	53.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY CHINDA: PCON2		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY.2020	9-Jul-20	43.4	-
JULY.2020	25-Jul-20	44.2	43.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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TEST REPORT NO.	RIN/TR/JULY-20/63	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	SHIVPURI OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SITE OFFICE: PSOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
12-Jul-20	13-Jul-20	78	45	21	13	<10	CLEAR SKY, LIGHT BREEZE
26-Jul-20	27-Jul-20	82	47	23	15	<10	CLOUDY SKY, LIGHT BREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SUBSTATION VISHNUPURI-I: PV1UA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
12-Jul-20	13-Jul-20	198	154	56	34	21	CLEAR SKY, LIGHT BREEZE
27-Jul-20	28-Jul-20	204	165	62	38	22	CLEAR SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

COLONY GUEST HOUSE SHIVPURI: PSOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
12-Jul-20	13-Jul-20	72	43	19	11	<10	CLOUDY SKY, LIGHT BREEZE
26-Jul-20	27-Jul-20	74	45	21	13	<10	CLEAR SKY, CALM
NAAQS, 2009		-	100	60	80	80	

CHINDA VILLAGE: PCOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10-Jul-20	11-Jul-20	68	45	18	10	<10	CLOUDY SKY, LIGHT BREEZE
24-Jul-20	25-Jul-20	72	48	22	12	<10	CLEAR SKY, CALM
NAAQS, 2009		-	100	60	80	80	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

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	2	10	4	2
13-Jul-20	7.54	24	32	<2
26-Jul-20	7.53	24	36	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

NEAR MANAGER OFFICE: PSON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY.2020	12-Jul-20	45.3	-
JULY.2020	27-Jul-20	56.7	55.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY SHIVPURI: PSON2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY.2020	12-Jul-20	44.2	-
JULY.2020	27-Jul-20	44.3	43.6
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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TEST REPORT NO.	RIN/TR/JULY-20/64	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	THESGORA MATHANI UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MATHANI VILLAGE: PTUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
13-Jul-20	14-Jul-20	112	72	36	24	15	CLEAR SKY, CALM
25-Jul-20	26-Jul-20	116	76	42	26	16	CLEAR SKY, CALM
NAAQS, 2009		-	100	60	80	80	

SAM OFFICE: PTUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
12-Jul-20	13-Jul-20	182	132	45	26	13	CLOUDY SKY, CALM
25-Jul-20	26-Jul-20	186	134	47	32	15	CLEAR SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

MANAGER OFFICE- MATHANI: PTUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
13-Jul-20	14-Jul-20	194	144	48	27	16	CLEAR SKY, CALM
25-Jul-20	26-Jul-20	198	152	56	29	18	CLOUDY SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

JHURE COLONY-FILTER PLANT PTUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
13-Jul-20	14-Jul-20	78	38	23	13	<10	CLEAR SKY, CALM
25-Jul-20	26-Jul-20	82	42	25	15	<10	CLOUDY SKY, CALM
NAAQS, 2009		-	100	60	80	80	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: PTUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
13-Jul-20	7.14	18	28	<2
25-Jul-20	7.27	28	40	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

FAN HOUSE-MATHANI:		PTUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY.2020	9-Jul-20	68.7	-
JULY.2020	27-Jul-20	67.8	66.6
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY-THESGORA:		PTUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY.2020	12-Jul-20	45.4	-
JULY.2020	27-Jul-20	45.2	44.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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TEST REPORT NO.	RIN/TR/JULY-20/65	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	URDHAN OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

URDHAN MANAGER OFFICE: PUOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
13-Jul-20	14-Jul-20	192	142	38	24	14	CLEAR SKY, CALM
26-Jul-20	27-Jul-20	196	146	42	26	16	CLEAR SKY, LIGHT BREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

URDHAN VILLAGE: PUOA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
15-Jul-20	16-Jul-20	88	58	32	20	11	RAINY, CALM
17-Jul-20	18-Jul-20	92	56	34	22	13	RAINY, CALM
NAAQS, 2009		-	100	60	80	80	

NEHARIA VILLAGE: PNUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
14-Jul-20	15-Jul-20	78	42	23	17	10	CLOUDY SKY, CALM
16-Jul-20	17-Jul-20	82	46	25	19	11	CLOUDY SKY, CALM
NAAQS, 2009		-	100	60	80	80	

BOKAI TOWNSHIP: PNUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
14-Jul-20	15-Jul-20	124	86	32	19	13	CLOUDY SKY, CALM
16-Jul-20	17-Jul-20	128	92	36	21	14	CLOUDY SKY, CALM
NAAQS, 2009		-	100	60	80	80	

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NOISE LEVEL MONITORING DATA

NEAR MANAGER OFFICE: PUON1		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY.2020	14-Jul-20	49.6	-
JULY.2020	27-Jul-20	48.7	47.3
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

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TEST REPORT NO.	RIN/TR/JULY-20/67	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	VISHNUPURI-II UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SAM OFFICE: PV1UA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11-Jul-20	12-Jul-20	192	138	52	32	19	CLOUDY SKY, CALM
26-Jul-20	27-Jul-20	196	146	54	36	17	CLEAR SKY, LIGHT BREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SUBSTATION: PV2UA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
12-Jul-20	13-Jul-20	198	154	56	34	21	CLEAR SKY, LIGHT BREEZE
27-Jul-20	28-Jul-20	204	165	62	38	22	CLEAR SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

COLONY GUEST HOUSE-SHIPURI: PSOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
12-Jul-20	13-Jul-20	72	43	19	11	<10	CLOUDY SKY, LIGHT BREEZE
26-Jul-20	27-Jul-20	74	45	21	13	<10	CLEAR SKY, CALM
NAAQS, 2009		-	100	60	80	80	

CHINDA VILLAGE: PCOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10-Jul-20	11-Jul-20	68	45	18	10	<10	CLOUDY SKY, LIGHT BREEZE
24-Jul-20	25-Jul-20	72	48	22	12	<10	CLEAR SKY, CALM
NAAQS, 2009		-	100	60	80	80	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: PV2UW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
11-Jul-20	7.51	28	36	<2
26-Jul-20	7.49	22	28	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

FAN HOUSE UG-II: PV2UN1		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY.2020	12-Jul-20	69.7	-
JULY.2020	27-Jul-20	68.2	67.6
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY(VISHNUPURI-I): PV1UN2		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY.2020	12-Jul-20	45.7	-
JULY.2020	27-Jul-20	45.3	44.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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TEST REPORT NO.	RIN/TR/JULY-20/66	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	VISHNUPURI-I UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SAM OFFICE: PV1UA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11-Jul-20	12-Jul-20	192	138	52	32	19	CLOUDY SKY, CALM
26-Jul-20	27-Jul-20	196	146	54	36	17	CLEAR SKY, LIGHT BREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SUBSTATION: PV2UA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
12-Jul-20	13-Jul-20	198	154	56	34	21	CLEAR SKY, LIGHT BREEZE
27-Jul-20	28-Jul-20	204	165	62	38	22	CLEAR SKY, CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

COLONY GUEST HOUSE SHIVPURI: PSOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
12-Jul-20	13-Jul-20	72	43	19	11	<10	CLOUDY SKY, LIGHT BREEZE
26-Jul-20	27-Jul-20	74	45	21	13	<10	CLEAR SKY, CALM
NAAQS, 2009		-	100	60	80	80	

CHINDA VILLAGE: PCOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10-Jul-20	11-Jul-20	68	45	18	10	<10	CLOUDY SKY, LIGHT BREEZE
24-Jul-20	25-Jul-20	72	48	22	12	<10	CLEAR SKY, CALM
NAAQS, 2009		-	100	60	80	80	

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NOISE LEVEL MONITORING DATA

FAN HOUSE UG-I: PV1UN1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY.2020	12-Jul-20	44.4	*
JULY.2020	27-Jul-20	44.2	43.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY: PV2UN2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY.2020	12-Jul-20	45.7	*
JULY.2020	27-Jul-20	45.3	44.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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TEST REPORT NO.	RIN/TR/JULY-20/80	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	PATHARKHERA	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	CHATTARPUR I & II UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SUBSTATION-CHATTARPUR I UG: PKCUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11-Jul-20	12-Jul-20	122	76	30	26	<10	CLOUDY , CALM
23-Jul-20	24-Jul-20	138	84	36	30	<10	CLOUDY , CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SAM OFFICE: PKCUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11-Jul-20	12-Jul-20	171	84	32	26	<10	CLOUDY , CALM
24-Jul-20	25-Jul-20	180	92	30	20	<10	CLOUDY , CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SUBSTATION-CHATTARPUR II UG: PKCUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11-Jul-20	12-Jul-20	157	105	28	14	<10	CLOUDY , CALM
24-Jul-20	25-Jul-20	174	110	34	22	<10	CLOUDY , CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

CHATTARPUR VILLAGE: PKCUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11-Jul-20	12-Jul-20	136	79	30	26	<10	CLOUDY , CALM
24-Jul-20	25-Jul-20	105	63	28	24	<10	CLOUDY , CALM
NAAQS, 2009		-	100	60	80	80	

FUGITIVE DUST MONITORING

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	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LSOP 4		

NEAR COAL STOCK BUNKER: PKCUF1					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
24-Jul-20	25-Jul-20	5	5	2	CLOUDY , CALM
		237	129	54	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O & G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER 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	2	10	4	2
11-Jul-20	7.94	28	44	<2
24-Jul-20	7.66	20	36	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

MINE WATER 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	2	10	4	2
11-Jul-20	7.80	34	32	<2
24-Jul-20	7.54	32	40	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

FAN HOUSE-I UG: PKCUN1		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
JULY.2020	11-Jul-20	69.4
JULY.2020	24-Jul-20	70.8
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75

FAN HOUSE-II UG: PKCUN2		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
JULY.2020	11-Jul-20	70.2
JULY.2020	24-Jul-20	69.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55

COLONY: PKCUN3		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
JULY.2020	11-Jul-20	43.9
JULY.2020	24-Jul-20	45.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55

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TEST REPORT NO.	RIN/TR/JULY-20/81	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	PATHARKHERA	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	SARNI UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SUBSTATION SARNI UG: PKSUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
8-Jul-20	9-Jul-20	140	74	22	14	<10	CLOUDY , CALM
21-Jul-20	22-Jul-20	164	84	26	20	<10	SUNNY , CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

NEAR DY.CME OFFICE: PKSUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
8-Jul-20	9-Jul-20	124	74	22	14	<10	CLOUDY , CALM
21-Jul-20	22-Jul-20	107	68	32	27	<10	RAINY , CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

GM OFFICE ENTRANCE GATE: PKSUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
9-Jul-20	10-Jul-20	99	55	26	16	<10	CLOUDY , CALM
22-Jul-20	23-Jul-20	115	64	30	28	<10	CLOUDY , CALM
NAAQS, 2009		-	100	60	80	80	

PATHAKHERA COLONY: PKSUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
8-Jul-20	9-Jul-20	148	94	40	30	<10	CLOUDY , CALM
21-Jul-20	22-Jul-20	108	80	32	22	<10	RAINY , CALM
NAAQS, 2009		-	100	60	80	80	

FUGITIVE DUST MONITORING

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	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LSOP 4		

NEAR COAL STOCK BUNKER: PKSUF1					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
21-Jul-20	22-Jul-20	5	5	2	CLOUDY SKY, CALM
		254	168	62	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: PKSUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
8-Jul-20	7.40	18	36	<2
22-Jul-20	7.19	26	44	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

FAN HOUSE: PKSUN1		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
	JULY.2020	8-Jul-20
JULY.2020	21-Jul-20	69.8
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75

COLONY(SARNI): PKSUN2		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
	JULY.2020	8-Jul-20
JULY.2020	21-Jul-20	43.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55

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TEST REPORT NO.	RIN/TR/JULY-20/82	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	PATHARKHERA	SAMPLING PLAN :	LQR 47
NAME OF PROJECT	SHOBHAPUR UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD :	LSOP 4		

SAM OFFICE: PKSHUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10-Jul-20	11-Jul-20	125	74	33	23	<10	CLOUDY , CALM
22-Jul-20	23-Jul-20	145	89	36	32	<10	CLOUDY , CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SUBSTATION: PKSHUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10-Jul-20	11-Jul-20	117	70	30	22	<10	CLOUDY , CALM
22-Jul-20	23-Jul-20	127	77	28	29	<10	CLOUDY , CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SHOBHAPUR VILLAGE: PKSHUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10-Jul-20	11-Jul-20	149	100	37	33	10	CLOUDY , CALM
23-Jul-20	24-Jul-20	137	92	30	24	<10	CLOUDY , CALM
NAAQS, 2009		-	100	60	80	80	

SHOBHAPUR COLONY: PKSHUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
9-Jul-20	10-Jul-20	126	69	20	12	<10	CLOUDY , CALM
23-Jul-20	24-Jul-20	112	60	30	26	<10	CLOUDY , CALM
NAAQS, 2009		-	100	60	80	80	

FUGITIVE DUST MONITORING

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	
SAMPLE DESCRIPTION	Air sample (Fugitive)	
SAMPLING METHOD : LSOP 4		

NEAR COAL STOCK BUNKER: PKSHUF1					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
22-Jul-20	23-Jul-20	5	5	2	CLEAR SKY, LIGHT BREEZE
		304	194	71	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: PKSUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
10-Jul-20	7.33	16	32	<2
22-Jul-20	7.18	24	20	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

FAN HOUSE: PKSUN1		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
JULY.2020	10-Jul-20	69.7
JULY.2020	23-Jul-20	70.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75

COLONY(SHOBHAPUR): PKSUN2		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
JULY.2020	9-Jul-20	46.1
JULY.2020	23-Jul-20	44.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55

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TEST REPORT NO.	RIN/TR/JULY-20/83	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	PATHARKHERA	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	TAWA-II UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE-TAWA II: PKT2UA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
9-Jul-20	10-Jul-20	130	70	36	28	<10	CLOUDY , CALM
20-Jul-20	21-Jul-20	123	67	30	20	<10	RAINY , CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SAM OFFICE: PKTUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
9-Jul-20	10-Jul-20	120	60	24	20	<10	CLOUDY , CALM
20-Jul-20	21-Jul-20	133	65	28	22	<10	SUNNY , CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

MPEB COLONY: PKTUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
8-Jul-20	9-Jul-20	94	50	22	24	<10	CLOUDY , CALM
20-Jul-20	21-Jul-20	110	65	26	20	<10	SUNNY , CALM
NAAQS, 2009		-	100	60	80	80	

HIRA PALLA/BHAGAIKHAPA VILLAGE: PKT2UA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10-Jul-20	11-Jul-20	118	67	36	32	<10	CLOUDY , CALM
23-Jul-20	24-Jul-20	100	55	32	24	<10	CLOUDY , CALM
NAAQS, 2009		-	100	60	80	80	

FUGITIVE DUST MONITORING

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	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LSOP 4		

NEAR COAL STOCK BUNKER: PKT2UF1					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
20-Jul-20	21-Jul-20	5	5	2	CLEAR SKY, CALM
		284	187	69	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: PKTUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
10-Jul-20	7.44	24	32	<2
21-Jul-20	7.64	30	40	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

FAN HOUSE: PKTUN1		NOISE LEVEL IN dB(A)
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME
	DETECTION LIMIT	20
JULY.2020	9-Jul-20	70.2
JULY.2020	21-Jul-20	68.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75

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TEST REPORT NO.	RIN/TR/JULY-20/84	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	PATHERKHERA	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	TAWA UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SAM OFFICE: PKTUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
9-Jul-20	10-Jul-20	120	60	24	20	<10	CLOUDY , CALM
20-Jul-20	21-Jul-20	133	65	28	22	<10	SUNNY , CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

MANAGER OFFICE-TAWA II: PKT2UA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
9-Jul-20	10-Jul-20	130	70	36	28	<10	CLOUDY , CALM
20-Jul-20	21-Jul-20	123	67	30	20	<10	RAINY , CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

MPEB COLONY: PKTUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
8-Jul-20	9-Jul-20	94	50	22	24	<10	CLOUDY , CALM
20-Jul-20	21-Jul-20	110	65	26	20	<10	SUNNY , CALM
NAAQS, 2009		-	100	60	80	80	

HIRA PALLA/BHAGAIKHAPA VILLAGE: PKT2UA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10-Jul-20	11-Jul-20	118	67	36	32	<10	CLOUDY , CALM
23-Jul-20	24-Jul-20	100	55	32	24	<10	CLOUDY , CALM
NAAQS, 2009		-	100	60	80	80	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: PKTUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
9-Jul-20	7.39	34	32	<2
21-Jul-20	7.16	32	36	<2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

FAN HOUSE: PKTUN1		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
	JULY.2020	9-Jul-20
JULY.2020	21-Jul-20	69.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75

COLONY(TAWA): PKTUN2		
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
	JULY.2020	9-Jul-20
JULY.2020	21-Jul-20	43.8
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55

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TEST REPORT NO.	RIN/TR/JULY-20/69	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	CWS TADALI	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	CWS TADALI		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SUBSTATION: CWSA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
15-7-20	16-7-20	120	70	36	18	14	CLOUDY,CALM
16-7-20	17-7-20	88	58	28	16	<10	RAINY SKY,LIGHT BREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

NEAR FILTER PLANT: CWSA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
15-7-20	16-7-20	144	82	46	16	10	CLOUDY,CALM
16-7-20	17-7-20	102	66	40	14	10	RAINY SKY,LIGHT BREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

ADMINISTRATIVE BUILDING: CWSA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
15-7-20	16-7-20	124	72	44	14	<10	CLOUDY,CALM
16-7-20	17-7-20	100	64	36	12	<10	RAINY SKY,LIGHT BREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

CWS COLONY: CWSA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
15-7-20	16-7-20	136	78	48	14	12	CLOUDY,CALM
16-7-20	17-7-20	96	60	44	12	<10	RAINY SKY,LIGHT BREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5

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	2	10	4	2
15-7-20	7.36	20	28	<2
16-7-20	8.107	40	68	2.8
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

NEAR WORKSHOP:		CWSN1
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
JULY 2020	15-7-20	58.5
JULY 2020	16-7-20	57.9
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75

COLONY(CWS):		CWSN2
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME
	DETECTION LIMIT	20
JULY 2020	15-7-20	42.8
JULY 2020	16-7-20	42.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55