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ENVIRONMENTAL MONITORING REPORT

BALLARPUR OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.


JOB NO. 4634420034



JANUARY 2022

Environment Laboratory
NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022
CMPDI
REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY

Environment Laboratory CMPDI RI-IV, NAGPUR		Test Report		
TEST REPORT NO.		RIN/TR/NOV-21/27	DATE OF ISSUE	28-02-2022
NAME OF CUSTOMER		GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.		WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2: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				

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}	No ₂	So ₂	
08.01.2022	09.01.2022	234	172	58	12	BDL	Clear sky / Lightbreeze
21.01.2022	22.01.2022	227	164	54	11	BDL	Cloudy sky / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH OCTOBER 2000		600	300	-	120	120	

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}	No ₂	So ₂	
07.01.2022	08.01.2022	227	145	57	12	BDL	Clear sky / Lightbreeze
20.01.2022	21.01.2022	237	147	62	11	BDL	Cloudy sky / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH OCTOBER 2000		600	300	-	120	120	

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}	No ₂	So ₂	
07.01.2022	08.01.2022	218	138	48	10	BDL	Clear sky / Lightbreeze
20.01.2022	21.01.2022	222	132	51	9	BDL	Cloudy sky / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH OCTOBER 2000		600	300	-	120	120	

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}	No ₂	So ₂	
08.01.2022	09.01.2022	136	52	28	7	BDL	Clear sky / Lightbreeze
21.01.2022	22.01.2022	127	46	26	6	BDL	Cloudy sky / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

J. Shrivastava

Analysed by

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Deepanshu sahu

Deepanshu sahu
Authorised Signatory

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

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}	
13.01.2022	14.01.2022	288	182	72	Cloudy/Lightbreeze

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}	
14.01.2022	15.01.2022	292	188	68	Cloudy/Lightbreeze

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}	
13.01.2022	14.01.2022	276	178	62	Cloudy/Lightbreeze

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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
07.01.2022	8	28	36	BDL
20.01.2022	7.68	14	24	BDL
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
07.01.2022	7.66	16	28	BDL
20.01.2022	8.1	22	32	BDL
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:		BBUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	07-01-2022	67.4	65.6
JAN'22	22-01-2022	67.4	66.4
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
JAN'22	07-01-2022	45.3	43.7
JAN'22	22-01-2022	44.8	43.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

BALLARPUR UG

BALLARPUR AREA

WESTERN COALFIELDS LTD.


JOB NO. 4634420034



JANUARY 2022

Environment Laboratory
NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022
CMPDI
REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY

Environment Laboratory CMPDI RI-IV, NAGPUR		Test Report		
TEST REPORT NO.		RIN/TR/JAN-22/28	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER		GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.		WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2: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					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)					
FROM	TO	SPM	PM ₁₀	PM _{2.5}	No ₂	So ₂	
08.01.2022	09.01.2022	234	172	58	12	BDL	Clear / Lightbreeze
21.01.2022	22.01.2022	227	164	54	11	BDL	Cloudy sky / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SUBSTATION		BBOA2					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)					
FROM	TO	SPM	PM ₁₀	PM _{2.5}	No ₂	So ₂	
07.01.2022	08.01.2022	227	145	57	12	BDL	Clear / Lightbreeze
20.01.2022	21.01.2022	237	147	62	11	BDL	Cloudy sky / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

PREMISES OF SUB AREA OFFICE		BBOA3					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)					
FROM	TO	SPM	PM ₁₀	PM _{2.5}	No ₂	So ₂	
07.01.2022	08.01.2022	218	138	48	10	BDL	Clear / Lightbreeze
20.01.2022	21.01.2022	222	132	51	9	BDL	Cloudy sky / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

FILTER PLANT COLONY		BBUA4					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)					
FROM	TO	SPM	PM ₁₀	PM _{2.5}	No ₂	So ₂	
08.01.2022	09.01.2022	136	52	28	7	BDL	Cloudy / Lightbreeze
21.01.2022	22.01.2022	127	46	26	6	BDL	Clear sky / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

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Analysed by

Deepansu sanu

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Authorised Signatory

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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
08.01.2022	8.06	30	40	BDL
21.01.2022	7.56	22	32	BDL
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: BBUN1		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JAN'22	07-01-2022	72.2	70.7
JAN'22	22-01-2022	72.3	71.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY: BBUN2		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JAN'22	07-01-2022	45.3	43.7
JAN'22	22-01-2022	44.8	43.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

GOURI-I & II (A) OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JANUARY 2022

Environment Laboratory
NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022
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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/30	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2: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					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)					
FROM	TO	SPM	PM ₁₀	PM _{2.5}	No ₂	So ₂	
06.01.2022	07.01.2022	232	148	52	14	10	Clear sky/Lightbreeze
19.01.2022	20.01.2022	227	152	57	11	BDL	Cloudy sky/Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SAM OFFICE GOURI SUB AREA		BGOA2					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)					
FROM	TO	SPM	PM ₁₀	PM _{2.5}	No ₂	So ₂	
05.01.2022	06.01.2022	226	142	65	13	BDL	Clear sky/Lightbreeze
18.01.2022	19.01.2022	218	154	61	10	BDL	Cloudy sky/Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

GOURI COLONY FILTER PLANT		BSOA3					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)					
FROM	TO	SPM	PM ₁₀	PM _{2.5}	No ₂	So ₂	
06.01.2022	07.01.2022	136	78	27	7	BDL	Clear sky/Lightbreeze
19.01.2022	20.01.2022	128	72	24	6	BDL	Cloudy sky/Lightbreeze
NAAQS, 2009		-	100	60	80	80	

GOURI VILLAGE		BGOA4					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)					
FROM	TO	SPM	PM ₁₀	PM _{2.5}	No ₂	So ₂	
04.01.2022	05.01.2022	118	47	26	7	BDL	Clear sky/Lightbreeze
17.01.2022	18.01.2022	127	52	28	6	BDL	Cloudy sky/Lightbreeze
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	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LPS 4		

GOURI I &II OC CHP BGUF1					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
13.01.2022	14.01.2022	278	184	66	Cloudy/Lightbreeze

GOURI I &II OC W BRIDGE BGUF1					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
13.01.2022	14.01.2022	284	178	74	Cloudy/Lightbreeze



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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
06.01.2022	7.83	16	24	BDL
19.01.2022	8.09	18	28	BDL
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
06.01.2022	7.88	24	32	BDL
19.01.2022	8.03	14	24	BDL
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	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	07-01-2022	66.4	64.8
JAN'22	22-01-2022	65.6	64.8
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

GOURI COLONY: BSON2			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	07-01-2022	43.8	42.8
JAN'22	22-01-2022	43.7	42.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

GOURI DEEP OC

BALLARPUR AREA

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JOB NO. 4634420034



JANUARY 2022



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NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	
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TEST REPORT NO.	RIN/TR/JAN-22/29	DATE OF ISSUE	28.2.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	BALLARPUR	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	GOURI DEEP OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			


MANAGER OFFICE		BGDO1					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)					
FROM	TO	SPM	PM ₁₀	PM _{2.5}	No _x	So _x	
03.01.2022	04.01.2022	222	154	52	14	10	Clear sky /Lightbreeze
16.01.2022	17.01.2022	247	146	47	13	BDL	Cloudy sky /Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

MUTRA VILLAGE		BGDO2					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)					
FROM	TO	SPM	PM ₁₀	PM _{2.5}	No _x	So _x	
03.01.2022	04.01.2022	127	89	29	7	BDL	Clear sky /Lightbreeze
16.01.2022	17.01.2022	136	86	26	8	BDL	Cloudy sky /Lightbreeze
NAAQS, 2009		-	100	60	80	80	

GOYEGAON VILLAGE		BGDO3					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)					
FROM	TO	SPM	PM ₁₀	PM _{2.5}	No _x	So _x	
03.01.2022	04.01.2022	132	87	27	7	BDL	Clear sky /Lightbreeze
16.01.2022	17.01.2022	128	82	22	6	BDL	Cloudy sky /Lightbreeze
NAAQS, 2009		-	100	60	80	80	

ANTARGAON VILLAGE		BGDO4					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)					
FROM	TO	SPM	PM ₁₀	PM _{2.5}	No _x	So _x	
03.01.2022	04.01.2022	142	78	25	6	BDL	Clear sky /Lightbreeze
16.01.2022	17.01.2022	134	74	28	7	BDL	Cloudy sky /Lightbreeze
NAAQS, 2009		-	100	60	80	80	


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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
04.01.2022	7.97	28	36	BDL
16.01.2022	7.78	18	28	BDL
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
04.01.2022	8.46	14	24	BDL
16.01.2022	7.98	22	32	BDL
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
JAN'22	07-01-2022	56.3	54.5
JAN'22	22-01-2022	57.3	55.3
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

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ENVIRONMENTAL MONITORING REPORT

NEW DHOPTALA OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JANUARY 2022

Environment Laboratory
NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022
CMPDI
REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
JARIPATKA, NAGPUR, PIN – 440 014

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/31	DATE OF ISSUE	28.2.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance		
NAME OF AREA	BALLARPUR	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	NEW DHOPTALA OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	No ₂	So ₂	
07.01.2022	08.01.2022	232	152	67	12	BDL	Clear /Lightbreeze
20.01.2022	21.01.2022	226	156	58	10	BDL	Cloudy/ Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	No ₂	So ₂	
08.01.2022	09.01.2022	242	165	72	14	10	Clear /Lightbreeze
21.01.2022	22.01.2022	238	162	65	13	BDL	Cloudy/ Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	No ₂	So ₂	
07.01.2022	08.01.2022	136	52	28	6	BDL	Clear /Lightbreeze
20.01.2022	21.01.2022	128	48	22	7	BDL	Cloudy/ Lightbreeze
NAAQS, 2009		-	100	60	80	80	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	No ₂	So ₂	
03.01.2022	04.01.2022	127	89	29	7	BDL	Clear /Lightbreeze
16.01.2022	17.01.2022	136	86	26	8	BDL	Cloudy/ Lightbreeze
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
SAMPLE DESCRIPTION	Air sample(Fugitive)
SAMPLING METHOD : LPOS 4	

DATE(dd:mm:yy) OF SAMPLING		WEIGH BRIDGE BNDOF1			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PARAMETERS (24 hourly values in µg/m ³)			
		SPM	PM ₁₀	PM _{2.5}	
14.01.2022	15.01.2022	292	185	65	Cloudy/Lightbreeze

DATE(dd:mm:yy) OF SAMPLING		CHP/Coal Mine Point BNDOF2			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PARAMETERS (24 hourly values in µg/m ³)			
		SPM	PM ₁₀	PM _{2.5}	
14.01.2022	15.01.2022	288	178	62	Cloudy/Lightbreeze

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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
JAN'22	07-01-2022	63.4	61.7
JAN'22	22-01-2022	62.5	61.6
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
JAN'22	07-01-2022	43.5	42.6
JAN'22	22-01-2022	43.6	42.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

PAUNI II OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.


JOB NO. 4634420034



JANUARY 2022

Environment Laboratory
NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022
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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/33	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2: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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	No ₂	So ₂	
05.01.2022	06.01.200	242	165	67	14	10	Cear /Lightbreeze
18.01.2022	19.01.2022	236	157	54	12	BDL	Cloudy /Lightbreeze
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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	No ₂	So ₂	
05.01.2022	06.01.200	228	152	56	13	BDL	Cear /Lightbreeze
18.01.2022	19.01.2022	234	147	52	11	BDL	Cloudy /Lightbreeze
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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	No ₂	So ₂	
05.01.2022	06.01.200	127	56	26	6	BDL	Cear /Lightbreeze
18.01.2022	19.01.2022	118	47	24	7	BDL	Cloudy /Lightbreeze
NAAQS, 2009		-	100	60	80	80	

WORKSHOP PAUNI OC BPOA2							
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}	No ₂	So ₂	
04.01.2022	05.01.200	212	132	47	10	BDL	Cear /Lightbreeze
17.01.2022	18.01.2022	218	128	49	9	BDL	Cloudy /Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

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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
05.01.2022	8.22	18	28	BDL
18.01.2022	7.98	22	32	BDL
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)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JAN'22	07-01-2022	56.6	55.9
JAN'22	22-01-2022	56.8	55.8
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

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ENVIRONMENTAL MONITORING REPORT

PAUNI OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JANUARY 2022

Environment Laboratory
NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022
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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/32	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2: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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	No ₂	So ₂	
04.01.2022	05.01.2022	222	147	65	13	BDL	Clear/Lightbreeze
17.01.2022	18.01.2022	232	138	52	11	BDL	Cloudy/ Lightbreeze
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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	No ₂	So ₂	
04.01.2022	05.01.2022	212	132	47	10	BDL	Clear/Lightbreeze
17.01.2022	18.01.2022	218	128	49	9	BDL	Cloudy/ Lightbreeze
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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	No ₂	So ₂	
04.01.2022	05.01.2022	124	65	28	7	BDL	Clear/Lightbreeze
17.01.2022	18.01.2022	116	67	26	8	BDL	Cloudy/ Lightbreeze
NAAQS, 2009		-	100	60	80	80	

GOURI VILLAGE BGOA4							
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}	No ₂	So ₂	
04.01.2022	05.01.2022	118	47	26	7	BDL	Clear/Lightbreeze
17.01.2022	18.01.2022	127	52	28	6	BDL	Cloudy/ Lightbreeze
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
SAMPLE DESCRIPTION	Air sample(Fugitive)
SAMPLING METHOD : LPOS 4	

DATE(dd:mm:yy) OF SAMPLING		WEIGH BRIDGE	BND0F1		ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
14.01.2022	15.01.2022	282	172	59	Cloudy/Lightbreeze



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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
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
04.01.2022	7.85	22	32	BDL
17.01.2022	7.72	14	24	BDL
STANDARDS FOR COAL	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
04.01.2022	8.16	16	28	BDL
17.01.2022	8.17	22	32	BDL
STANDARDS FOR COAL	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
JAN'22	07-01-2022	57.2	55.7
JAN'22	22-01-2022	56.4	55.4
NOISE POLLUTION (REGULATION AND CONTROL)		75	70

GOURI COLONY:		BSON2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	07-01-2022	43.8	42.8
JAN'22	22-01-2022	43.7	42.5
NOISE POLLUTION (REGULATION AND CONTROL)		55	45

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ENVIRONMENTAL MONITORING REPORT

SASTI OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.


JOB NO. 4634420034



JANUARY 2022

Environment Laboratory
NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022
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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/34	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2: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			

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}	No ₂	So ₂	
06.01.2022	07.01.2022	228	167	45	13	10	Clear /Lightbreeze
19.01.2022	20.01.2022	234	158	42	11	BDL	Cloudy /Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	16	

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}	No ₂	So ₂	
06.01.2022	07.01.2022	218	126	36	10	BDL	Clear /Lightbreeze
19.01.2022	20.01.2022	212	118	32	9	BDL	Cloudy /Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

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}	No ₂	So ₂	
06.01.2022	07.01.2022	136	78	27	7	BDL	Clear /Lightbreeze
19.01.2022	20.01.2022	128	72	24	6	BDL	Cloudy /Lightbreeze
NAAQS, 2009		-	100	60	80	80	

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}	No _x	So _x	
08.01.2022	09.01.2022	138	56	26	7	BDL	Clear /Lightbreeze
21.01.2022	22.01.2022	124	42	24	6	BDL	Cloudy /Lightbreeze
NAAQS, 2009		-	100	60	80	80	

J. Shrivastava

Analysed by

Deepanshu sahu

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

WEIGH BRIDGE		BSOF1			ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
15.01.2022	16.01.2022	278	168	57	Cloudy/Lightbreeze

MAIN CHP		BSOF2			ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
15.01.2022	16.01.2022	257	162	54	Cloudy/Lightbreeze

RAILWAY SIDING		BSOF3			ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
15.01.2022	16.01.2022	262	174	63	Cloudy/Lightbreeze

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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
06.01.2022	7.98	24	32	BDL
19.01.2022	7.89	18	28	BDL
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
06.01.2022	7.93	22	36	BDL
19.01.2022	8.01	16	24	BDL
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
06.01.2022	14	10.8
19.01.2022	18	11.4
GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS GSR 801E EPA 1993	100	30

J. Shrivastava

Analysed by

Deepanshu sahu

Deepanshu sahu
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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
JAN'22	07-01-2022	66.4	64.8
JAN'22	22-01-2022	65.6	64.6
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
JAN'22	07-01-2022	43.8	42.8
JAN'22	22-01-2022	43.7	42.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

SASTI UG

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JANUARY 2022

Environment Laboratory
NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022
CMPDI
REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
JARIPATKA, NAGPUR, PIN – 440 014

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/35	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2: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		

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	No ₂	So ₂	
07.01.2022	08.01.2022	232	152	67	12	BDL	Clear /Lightbreeze
20.01.2022	21.01.2022	226	156	58	10	BDL	Cloudy /Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	No ₂	So ₂	
08.01.2022	09.01.2022	242	165	72	14	10	Clear /Lightbreeze
21.01.2022	22.01.2022	238	162	65	13	BDL	Cloudy /Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	No ₂	So ₂	
07.01.2022	08.01.2022	136	52	28	6	BDL	Clear /Lightbreeze
20.01.2022	21.01.2022	128	48	22	7	BDL	Cloudy /Lightbreeze
NAAQS, 2009		-	100	60	80	80	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	No ₂	So ₂	
08.01.2022	09.01.2022	138	56	26	7	BDL	Clear /Lightbreeze
21.01.2022	22.01.2022	124	42	24	6	BDL	Cloudy /Lightbreeze
NAAQS, 2009		-	100	60	80	80	

J. Shrivastava
Analysed by

Deepanshu sahu
Deepanshu sahu
Authorised Signatory

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

DATE(dd:mm:yy) OF SAMPLING		WEIGH BRIDGE BSUF1			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PARAMETERS (24 hourly values in µg/m ³)			
		SPM	PM ₁₀	PM _{2.5}	
15.01.2022	16.01.2022	5	5	2	Cloudy/Lightbreeze
		282	176	66	

J. Shray

Analysed by


Deepanshu

Deepanshu sahu
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MINE WATER DISCHARGE: BSUW1		ANALYSIS RESULTS		
DATE OF SAMPLE COLLECTION	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
08.01.2022	8.32	24	28	BDL
21.01.2022	7.62	22	32	BDL
STANDARDS FOR COAL	5.5 - 9.0	100	250	10


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NOISE LEVEL MONITORING DATA

FAN HOUSE:		BSUN1	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	07-01-2022	70.3	68.8
JAN'22	22-01-2022	69.6	68.8
NOISE POLLUTION (REGULATION AND		75	70

SASTI COLONY:		BSUN2	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	07-01-2022	43.5	42.6
JAN'22	22-01-2022	43.6	42.7
NOISE POLLUTION (REGULATION AND		55	45

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ENVIRONMENTAL MONITORING REPORT

BHATADI OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JANUARY 2022

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/17	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2: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 : L SOP 4			

BHATADI SECURITY POST CBOA1							
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}	NO ₂	SO ₂	
05.01.2022	06.01.2022	279	158	54	28	14	Cloudy sky/ Lightbreeze
19.01.2022	20.01.2022	261	152	52	26	12	Cloudy sky/ Lightbreeze
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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
05.01.2022	06.01.2022	294	148	52	34	16	Cloudy sky/ Lightbreeze
19.01.2022	20.01.2022	290	144	51	32	12	Cloudy sky/ Lightbreeze
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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
05.01.2022	06.01.2022	183	96	40	30	12	Cloudy sky/ Lightbreeze
19.01.2022	20.01.2022	189	98	41	28	11	Cloudy sky/ Lightbreeze
NAAQS, 2009		-	100	60	80	80	

VADHOLI VILLAGE CBOA4							
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}	NO ₂	SO ₂	
05.01.2022	06.01.2022	173	86	36	22	12	Cloudy sky/ Lightbreeze
19.01.2022	20.01.2022	159	79	34	23	11	Cloudy sky/ Lightbreeze
NAAQS, 2009		-	100	60	80	80	

R. Anupurna

Analysed by

Deepanshu sahu

Deepanshu sahu
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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
SAMPLE DESCRIPTION	Air sample(Fugitive)
SAMPLING METHOD	LSOP 4

WORKSHOP 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}	
09.01.2022	10.01.2022	440	326	73	Clear/L.Breeze

CHP/MANAGER 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}	
09.01.2022	10.01.2022	352	224	67	Rainy/L.Breeze

WEIGH BRIDGE 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}	
09.01.2022	10.01.2022	426	305	70	Clear/L.Breeze

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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
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
05.01.2022	7.7	28	36	BDL
19.01.2022	7.6	26	32	BDL
STANDARDS FOR COAL MINE, CSR 7425, dt.	5.5 - 9.0	100	250	

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
05.01.2022	7.97	20	32	BDL
19.01.2022	7.7	32	36	BDL
STANDARDS FOR COAL MINE, CSR 7425, dt.	5.5 - 9.0	100	250	

STP(DOMESTIC EFFLUENT)TREATED: CBOW3		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS (in mg/l)	BOD(in mg/l)
DETECTION LIMIT	10	2
05.01.2022	48	11.4
19.01.2022	60	10.8
GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT	100	30

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NOISE LEVEL MONITORING DATA

CHP: CBON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	11-01-2022	67.3	66.6
JAN'22	22-01-2022	59.4	58.5
NOISE POLLUTION (REGULATION AND		75	70

COLONY: CBON2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	11-01-2022	42.5	41.8
JAN'22	22-01-2022	44.2	43.1
NOISE POLLUTION (REGULATION AND		55	45

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ENVIRONMENTAL MONITORING REPORT

CRC UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.


JOB NO. 4634420034



JANUARY 2022

Environment Laboratory
NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022
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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/18	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2: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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
09.01.2022	10.01.2022	296	164	55	36	24	Clear / Lightbreeze
22.01.2022	23.01.2022	281	160	52	32	20	Cloudy / Lightbreeze
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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
09.01.2022	10.01.2022	285	172	58	38	27	Clear / Lightbreeze
22.01.2022	23.01.2022	294	175	51	34	28	Cloudy / Lightbreeze
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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
09.01.2022	10.01.2022	275	170	60	40	26	Clear / Lightbreeze
22.01.2022	23.01.2022	281	168	54	37	28	Cloudy / Lightbreeze
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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
09.01.2022	10.01.2022	193	86	40	24	16	Clear / Lightbreeze
22.01.2022	23.01.2022	200	90	38	26	14	Cloudy / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

R. Annapurna

Analysed by

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

CHP CCF1					
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}	
FROM	TO	5	5	2	
9.02.2022	10.02.2022	386	216	75	CLOUDY/L.BREEZE

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Analysed by

Deepanshu sahu

Deepanshu sahu
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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
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
09.01.2022	7.60	20	32	BDL
22.01.2022	7.9	32	44	BDL
STANDARDS FOR COAL	5.5 - 9.0	100	250	10

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Analysed by

Deepanshu sahu

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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
JAN'22	11-01-2022	66.6	65.6
JAN'22	22-01-2022	59.3	58.5
NOISE POLLUTION (REGULATION AND		75	70

COLONY: CCRUN2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	11-01-2022	42.4	42.7
JAN'22	22-01-2022	45.5	44.3
NOISE POLLUTION (REGULATION AND		55	45

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ENVIRONMENTAL MONITORING REPORT

DRC UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.


JOB NO. 4634420034



JANUARY 2022

Environment Laboratory
NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022
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JARIPATKA, NAGPUR, PIN – 440 014

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	
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TEST REPORT NO.	RIN/TR/JAN-22/19	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2: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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
07.01.2022	08.01.2022	271	156	40	30	22	Clear Sky / Calm
21.01.2022	22.01.2022	265	148	38	28	21	Cloudy Sky / L.Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

NEHRU NAGAR/ SUBSTATION CDRUA2							
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}	NO ₂	SO ₂	
08.01.2022	09.01.2022	278	164	2	40	24	Cloudy Sky / Windy
22.01.2022	23.01.2022	295	168	60	42	26	Clear Sky / L.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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
08.01.2022	09.01.2022	167	86	44	28	20	Cloudy Sky / Windy
22.01.2022	23.01.2022	182	90	42	25	18	Clear Sky / L.Breeze
NAAQS, 2009		-	100	60	80	80	

PIT OFFICE DRC-IV CDRUA4							
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}	NO ₂	SO ₂	
08.01.2022	09.01.2022	261	161	52	34	20	Cloudy Sky / Windy
22.01.2022	23.01.2022	253	158	50	32	19	Clear Sky / L.Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

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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	

COAL BUNKER: CDUF1					
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}	
09.01.2022	10.01.2022	397	316	78	CLOUDY/L.BREEZE

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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)
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
08.01.2022	7.4	18	28	BDL
22.01.2022	7.8	20	32	BDL
STANDARDS FOR COAL	5.5 - 9.0	100	250	10

R. Annapurna

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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
JAN'22	11-01-2022	69.4	68.8
JAN'22	22-01-2022	51.2	50.4
NOISE POLLUTION (REGULATION AND		75	70

DURGAPUR COLONY: CDRUN2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	11-01-2022	42.4	41.5
JAN'22	22-01-2022	44.1	43.2
NOISE POLLUTION (REGULATION AND		55	45

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ENVIRONMENTAL MONITORING REPORT

DURGAPUR OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JANUARY 2022

Environment Laboratory
NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022
CMPDI
REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
JARIPATKA, NAGPUR, PIN – 440 014

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/20	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
07.01.2022	08.01.2022	287	164	54	38	27	Clear Sky / Calm
21.01.2022	22.01.2022	283	161	52	36	25	Cloudy Sky / L.Breeze
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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
07.01.2022	08.01.2022	172	96	35	23	12	Clear Sky / Calm
21.01.2022	22.01.2022	178	94	33	21	11	Cloudy Sky / L.Breeze
NAAQS, 2009		-	100	60	80	80	

MANAGER OFFICE Q-IV CPOA1(Padmapur)							
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}	NO ₂	SO ₂	
06.01.2022	07.01.2022	256	178	60	36	24	Clear Sky / Calm
20.01.2022	21.01.2022	263	173	58	33	22	Cloudy Sky / L.Breeze
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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
07.01.2022	08.01.2022	202	87	45	31	11	Clear Sky / Calm
21.01.2022	22.01.2022	198	93	41	28	12	Cloudy Sky / L.Breeze
NAAQS, 2009		-	100	60	80	80	

R. Annapurna

Analysed by

Deepanshu sahu

Deepanshu sahu
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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		

CHP CDGOF1					
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}	
10.01.2022	11.01.2022	422	297	80	CLOUDY/L.BREEZE

CHECKPOST/AYYAPA MANDIR: CDGOF2					
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}	
10.01.2022	11.01.2022	387	286	74	CLOUDY/L.BREEZE

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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)	
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
07.01.2022	8.2	26	36	BDL
21.01.2022	8.02	48	60	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt.	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
07.01.2022	4.8	52	60	BDL
21.01.2022	5.7	68	72	BDL
STANDARDS FOR COAL	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
07.01.2022	8.03	24	32	BDL
21.01.2022	8.05	28	36	BDL
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
07.01.2022	76	10.8
21.01.2022	62	11.4
GENERAL STANDARDS FOR DISCHARGE OF	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
JAN'22	11-01-2022	66.7	66.4
JAN'22	22-01-2022	59.6	58.9
NOISE POLLUTION (REGULATION AND		75	70

DURGAPUR COLONY:		CDON2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	11-01-2022	42.4	41.5
JAN'22	22-01-2022	44.1	43.2
NOISE POLLUTION (REGULATION AND		55	45

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ENVIRONMENTAL MONITORING REPORT

HLP-I & III UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034




JANUARY 2022

Environment Laboratory
NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022
REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
JARIPATKA, NAGPUR, PIN – 440 014

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/22	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10.01.2022	11.01.2022	289	176	58	40	22	Rainy / Lightbreeze
23.01.2022	24.01.2022	303	182	60	36	21	Cloudy Sky / Lightbreeze
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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10.01.2022	11.01.2022	258	164	52	39	23	Rainy / Lightbreeze
23.01.2022	24.01.2022	266	162	50	37	22	Cloudy Sky / Lightbreeze
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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10.01.2022	11.01.2022	180	96	36	24	16	Rainy / Lightbreeze
23.01.2022	24.01.2022	172	94	38	22	14	Cloudy Sky / Lightbreeze
NAAQS, 2009		-	100	60	80		

RAJIV GANDHI ENGG. COLLEGE CHUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)					Rainy/Windy
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10.01.2022	11.01.2022	175	86	40	26	18	Rainy / Lightbreeze
23.01.2022	24.01.2022	181	88	39	25	14	Cloudy Sky / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

R. Annapurna

Analysed by

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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
10.01.2022	7.7	48	60	BDL
23.01.2022	7.6	18	40	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

MINE WATER DISCHARGE(HLP-I): CHUW2				
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
10.01.2022	7.60	18	32	BDL
23.01.2022	7.7	20	36	BDL
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
JAN'22	11-01-2022	69.3	68.7
JAN'22	22-01-2022	55.8	54.7
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
JAN'22	11-01-2022	42.2	41.4
JAN'22	22-01-2022	45.5	44.8
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

HLP OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JANUARY 2022

Environment Laboratory
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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/21	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
12.01.2022	13.01.2022	300	187	56	38	22	Cloudy Sky / Lightbreeze
24.01.2022	25.01.2022	298	182	58	36	21	Cloudy Sky / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

MANAGER OFFICE(HLP OC) CHOAZ							
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}	NO ₂	SO ₂	
11.01.2022	12.01.2022	290	181	60	35	23	Cloudy Sky / Lightbreeze
23.01.2022	24.01.2022	304	185	62	39	20	Cloudy Sky / Lightbreeze
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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11.01.2022	12.01.2022	158	73	42	28	19	Cloudy Sky / Lightbreeze
24.01.2022	25.01.2022	160	77	40	29	18	Cloudy Sky / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

COLONY (NANDGAON) CNUA4							
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}	NO ₂	SO ₂	
12.01.2022	13.01.2022	197	98	38	26	16	Cloudy Sky / Lightbreeze
24.01.2022	25.01.2022	187	94	41	24	14	Cloudy Sky / Lightbreeze
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
SAMPLE DESCRIPTION	Air sample(Fugitive)
SAMPLING METHOD : LSOP 4	

MAIN CHP: CHLOF1					
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}	
12.01.2022	13.01.2022	5	5	2	CLOUDY/L.BREEZE
		317	219	58	

RAILWAY SIDING CHLOF2					
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}	
12.01.2022	13.01.2022	5	5	2	CLOUDY/L.BREEZE
		410	310	60	

WEIGH BRIDGE CHLOF3					
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}	
12.01.2022	13.01.2022	5	5	2	CLOUDY/L.BREEZE
		348	228	68	

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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
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
11.01.2022	4.09	52	64	BDL
24.01.2022	5.9	50	60	BDL
STANDARDS FOR COAL	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
JAN'22	11-01-2022	66.4	65.6
JAN'22	22-01-2022	58.9	57.8
NOISE POLLUTION (REGULATION AND		75	70

COLONY HLP:		CHON2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	11-01-2022	42.3	41.7
JAN'22	22-01-2022	45.3	44.1
NOISE POLLUTION (REGULATION AND		55	45

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ENVIRONMENTAL MONITORING REPORT

MAHAKALI UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.


JOB NO. 4634420034



JANUARY 2022

Environment Laboratory
NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022
CMPDI
REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/23	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2: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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
09.01.2022	10.01.2022	296	164	55	36	24	Clear / Lightbreeze
22.01.2022	23.01.2022	281	160	52	32	20	Cloudy / Lightbreeze
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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
09.01.2022	10.01.2022	285	172	58	38	27	Clear / Lightbreeze
22.01.2022	23.01.2022	294	175	51	34	28	Cloudy / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

JATWARA MILK SCHEME CCRUA3(C.R.C-U/G)							
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}	NO ₂	SO ₂	
09.01.2022	10.01.2022	275	170	60	40	26	Clear / Lightbreeze
22.01.2022	23.01.2022	281	168	54	37	28	Cloudy / Lightbreeze
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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
09.01.2022	10.01.2022	193	86	40	24	16	Clear / Lightbreeze
22.01.2022	23.01.2022	200	90	38	26	14	Cloudy / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

R. Anupurna

Analysed by

Deepanshu sahu

Deepanshu sahu
Authorised Signatory

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

COAL BUNKER: CMUF1					
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}	
09.01.2022	10.01.2022	456	309	64	CLOUDY/L.BREEZE

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Analysed by

Deepanshu sahu

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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)
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
09.01.2022	7.8	16	28	BDL
22.01.2022	7.9	40	52	BDL
STANDARDS FOR COAL	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
JAN'22	11-01-2022	69.6	68.8
JAN'22	22-01-2022	56.2	55.1
NOISE POLLUTION (REGULATION AND CONTROL)		75	70

COLONY(MAHAKALI): CMUN2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JAN'22	11-01-2022	42.5	41.7
JAN'22	22-01-2022	45.3	44.2
NOISE POLLUTION (REGULATION AND CONTROL)		55	45

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ENVIRONMENTAL MONITORING REPORT

MANA UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.


JOB NO. 4634420034



JANUARY 2022

Environment Laboratory
NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022
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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/24	DATE OF ISSUE	28.2.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2: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		

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}	NO ₂	SO ₂	
11.01.2022	12.01.2022	266	168	64	50	20	Cloudy / Lightbreeze
24.01.2022	25.01.2022	275	164	68	52	22	Cloudy / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

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}	NO ₂	SO ₂	
11.01.2022	12.01.2022	295	185	60	38	28	Cloudy / Lightbreeze
24.01.2022	25.01.2022	300	190	62	40	26	Cloudy / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

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}	NO ₂	SO ₂	
11.01.2022	12.01.2022	197	98	38	26	16	Cloudy / Lightbreeze
24.01.2022	25.01.2022	187	94	41	24	14	Cloudy / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

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}	NO ₂	SO ₂	
11.01.2022	12.01.2022	158	73	42	28	19	Cloudy / Lightbreeze
24.01.2022	25.01.2022	160	77	40	29	18	Cloudy / Lightbreeze
		-	100	60	80	80	

R. Annapurna

Analysed by

Deepanshu sahu

Deepanshu sahu
Authorised Signatory

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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
11.01.2022	7.3	40	52	BDL
24.01.2022	7.5	20	36	BDL
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
JAN'22	11-01-2022	69.3	67.6
JAN'22	22-01-2022	55.8	54.9
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
JAN'22	11-01-2022	42.3	41.7
JAN'22	22-01-2022	45.3	44.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

NANDGAON UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.


JOB NO. 4634420034



JANUARY 2022

Environment Laboratory
NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022
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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/25	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2: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					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)					
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
12.01.2022	13.01.2022	300	187	56	38	22	Cloudy / Lightbreeze
24.01.2022	25.01.2022	298	182	58	36	21	Cloudy / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SUBSTATION MANA INCLINE		CMUA2					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)					
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11.01.2022	12.01.2022	295	185	60	38	28	Cloudy / Lightbreeze
24.01.2022	25.01.2022	300	190	62	40	26	Cloudy / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

MANA VILLAGE		CMUA4					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)					
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11.01.2022	12.01.2022	158	73	42	28	19	Cloudy / Lightbreeze
24.01.2022	25.01.2022	160	77	40	29	18	Cloudy / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

COLONY (NANDGAON)		CNUA4					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)					
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
12.01.2022	13.01.2022	197	98	38	26	16	Cloudy / Lightbreeze
24.01.2022	25.01.2022	187	94	41	24	14	Cloudy / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

R. Anupama

Analysed by

Deepanshu sahu

Deepanshu sahu
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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
12.01.2022	7.6	32	44	BDL
25.01.2022	7.7	26	40	BDL
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
JAN'22	11-01-2022	69.4	68.8
JAN'22	22-01-2022	54.6	53.4
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
JAN'22	11-01-2022	42.3	41.7
JAN'22	22-01-2022	45.3	44.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

PADMAPUR OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JANUARY 2022

Environment Laboratory
NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022
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JARIPATKA, NAGPUR, PIN – 440 014

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/26	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
06.01.2022	07.01.2022	5	5	2	6	10	Cloudy Sky / L.Breeze
20.01.2022	21.01.2022	256	178	60	36	24	Cloudy 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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
06.01.2022	07.01.2022	5	5	2	6	10	Cloudy Sky / L.Breeze
20.01.2022	21.01.2022	177	93	40	24	10	Cloudy Sky / Calm
NAAQS, 2009		-	100	60	80	80	

KITADI VILLAGE CPOA3							
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}	NO ₂	SO ₂	
06.01.2022	07.01.2022	5	5	2	6	10	Cloudy Sky / L.Breeze
20.01.2022	21.01.2022	186	87	38	22	11	Cloudy Sky / Calm
NAAQS, 2009		-	100	60	80	80	

VICHODA RAYATWARI VILLAGE CPOA4							
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}	NO ₂	SO ₂	
06.01.2022	07.01.2022	5	5	2	6	10	Cloudy Sky / L.Breeze
20.01.2022	21.01.2022	156	67	37	23	10	Cloudy Sky / Calm
NAAQS, 2009		-	100	60	80	80	

R. Annapurna

Analysed by

Deepanshu

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

PADMAPUR OC WEIGH.BRIDGE CPRUF1					
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}	
FROM	TO	5	5	2	CLOUDY/L.BREEZE
10.01.2022	11.01.2022	421	290	63	

PADMAPUR OC CHP CPRUF2					
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}	
FROM	TO	5	5	2	CLOUDY/L.BREEZE
10.01.2022	11.01.2022	442	300	71	

R. Annapurna

Analysed by

Deepanshu sahu

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Authorised Signatory

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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
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE SECTOR 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
06.01.2022	7.88	30	44	BDL
20.01.2022	7.6	24	32	BDL
STANDARDS FOR COAL	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
06.01.2022	8.02	28	36	BDL
20.01.2022	7.96	30	44	BDL
STANDARDS FOR COAL	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
JAN'22	11-01-2022	66.4	65.6
JAN'22	22-01-2022	60.4	59.8
NOISE POLLUTION (REGULATION AND CONTROL)		75	70

DURGAPUR COLONY: CDON2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	11-01-2022	42.4	41.5
JAN'22	22-01-2022	44.1	43.2
NOISE POLLUTION (REGULATION AND CONTROL)		55	45

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ENVIRONMENTAL MONITORING REPORT

JUNA KUNADA OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JANUARY 2022

Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

CMPDI

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

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/50	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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	
06.01.2022	07.01.2022	210	139	30	16	BDL	Clear Sky / Calm
22.01.2022	23.01.2022	230	128	52	14	BDL	Clear Sky / 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	
07.01.2022	08.01.2022	278	165	40	17	BDL	Clear Sky / Calm
23.01.2022	24.01.2022	265	174	41	18	BDL	Clear Sky / 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	
07.01.2022	08.01.2022	132	74	34	12	BDL	Clear Sky / Calm
23.01.2022	24.01.2022	126	69	28	14	BDL	Clear Sky / 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	
07.01.2022	08.01.2022	143	80	21	12	BDL	Clear Sky / Calm
23.01.2022	24.01.2022	130	78	24	12	BDL	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
SAMPLE DESCRIPTION	Air sample(Fugitive)
SAMPLING METHOD : LPS 4	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
13.01.2022	14.01.2022	345	198	82	Clear Sky / Calm



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NOISE LEVEL MONITORING DATA

MANAGER OFFICE:		MJON1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	11.01.2022	45.8	43.5
JAN'22	24.01.2022	45.9	44.2
NOISE POLLUTION (REGULATION AND		75	70

EKTA NAGAR COLONY:		MTON2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	11.01.2022	45.9	44.5
JAN'22	24.01.2022	45.2	43.8
NOISE POLLUTION (REGULATION AND		55	45

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ENVIRONMENTAL MONITORING REPORT

NEW MAJRI-II(A) OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JANUARY 2022


Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	
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TEST REPORT NO.	RIN/TR/JAN-22/52	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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			

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}	NO ₂	SO ₂	
05.01.2022	06.01.2022	247	149	35	16	BDL	Clear Sky / Calm
21.01.2022	22.01.2022	240	148	32	15	BDL	Clear Sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

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}	NO ₂	SO ₂	
04.01.2022	05.01.2022	287	175	45	17	BDL	Clear Sky / Calm
20.01.2022	21.01.2022	215	153	38	18	BDL	Clear Sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

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}	NO ₂	SO ₂	
05.01.2022	06.01.2022	112	64	23	12	BDL	Clear Sky / Calm
21.01.2022	22.01.2022	110	59	18	12	BDL	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	

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}	NO ₂	SO ₂	
04.01.2022	05.01.2022	143	76	28	12	BDL	Clear Sky / Calm
05.01.2022	06.01.2022	140	82	28	14	BDL	Clear Sky / Calm
11.01.2022	12.01.2022	146	81	33	18	BDL	Clear Sky / Calm
12.01.2022	13.01.2022	114	69	32	12	BDL	Clear Sky / Calm
21.01.2022	22.01.2022	134	78	32	13	BDL	Clear Sky / Calm
22.01.2022	23.01.2022	118	60	30	14	BDL	Clear Sky / Calm
29.01.2022	30.01.2022	149	81	34	13	BDL	Clear Sky / Calm
30.01.2022	31.01.2022	114	59	22	12	BDL	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	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LPS 4		

FIELD MAIN SHED		MOF1			ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
13.01.2022	14.01.2022	390	220	56	Clear Sky / Calm

CHP		MOF2			ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
12.01.2022	13.01.2022	420	245	65	Clear Sky / Calm



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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)
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
12.01.2022	7.5	24	20	BDL
23.01.2022	7.72	32	24	BDL
STANDARDS FOR COAL	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
12.01.2022	7.8	28	48	BDL
23.01.2022	7.5	26	28	BDL
STANDARDS FOR COAL	5.5 - 9.0	100	250	10

STP(DOMESTIC EFFLUENT)TREATED:		MMOW3	
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS		
	TSS (in mg/l)	BOD(in mg/l)	
DETECTION LIMIT	10	2	
12.01.2022	26	16	
23.01.2022	32	20	
GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT	100	30	



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NOISE LEVEL MONITORING DATA

FIELD MINE SHED:		MMON1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	11.01.2022	50.7	48.6
JAN'22	24.01.2022	50.7	47.8
NOISE POLLUTION (REGULATION AND		75	70

KUCHNA COLONY:		MMON2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	11.01.2022	45.4	43.9
JAN'22	24.01.2022	45.9	43.7
NOISE POLLUTION (REGULATION AND		55	45

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ENVIRONMENTAL MONITORING REPORT

NEW MAJRI UG TO OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JANUARY 2022


Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/51	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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			

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	No ₂	So ₂	
04.01.2022	05.01.2022	287	175	45	17	BDL	Clear Sky / Calm
20.01.2022	21.01.2022	215	153	38	18	BDL	Clear Sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	No ₂	So ₂	
04.01.2022	05.01.2022	290	165	39	19	BDL	Clear Sky / Calm
20.01.2022	21.01.2022	264	192	50	16	BDL	Clear Sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	No ₂	So ₂	
04.01.2022	05.01.2022	265	149	34	16	BDL	Clear Sky / Calm
20.01.2022	21.01.2022	260	163	39	19	BDL	Clear Sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	No ₂	So ₂	
05.01.2022	06.01.2022	116	65	24	13	BDL	Clear Sky / Calm
21.01.2022	22.01.2022	146	78	25	12	BDL	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 : LPS 4		

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
13.01.2022	14.01.2022	395	210	78	Clear Sky / Calm



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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)
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	
05.01.2022	7.9	32	28	BDL	
20.01.2022	7.86	30	36	BDL	
STANDARDS FOR COAL MINE, GSR 742E, dt.	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	
05.01.2022	7.53	32	40	BDL	
19.01.2022	7.72	32	32	BDL	
STANDARDS FOR COAL MINE, GSR 742E, dt.	5.5 - 9.0	100	250	10	



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NOISE LEVEL MONITORING DATA

PIT OFFICE:		MMUN1	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	11.01.2022	50.9	48.7
JAN'22	24.01.2022	49.9	47.6
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY(MAJRI UG TO OC):		MMUN2	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	11.01.2022	45.7	44.8
JAN'22	24.01.2022	49.9	47.6
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

TELWASA OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JANUARY 2022

Environment Laboratory
NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022
CMPDI
REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/53	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2: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		

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
06.01.2022	07.01.2022	198	126	32	13	BDL	Clear sky / Calm
22.01.2022	23.01.2022	210	145	23	12	BDL	Clear sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
06.01.2022	07.01.2022	267	154	29	18	BDL	Clear sky / Calm
22.01.2022	23.01.2022	236	165	29	17	BDL	Clear sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
06.01.2022	07.01.2022	123	64	20	12	BDL	Clear sky / Calm
22.01.2022	23.01.2022	145	80	21	12	BDL	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
07.01.2022	08.01.2022	132	74	34	12	BDL	Clear sky / Calm
22.01.2022	23.01.2022	126	69	28	14	BDL	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
SAMPLE DESCRIPTION	Air sample(Fugitive)
SAMPLING METHOD : LPS 4	

GROUND STOCK YARD		MOF1			
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}	
14.01.2022	15.01.2022	295	176	79	Clear Sky / Calm

W BRIDGE		F2			
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}	
14.01.2022	15.01.2022	375	210	68	Clear Sky / Calm



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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)
SAMPLING METHOD	LSOP 5

DETP DISCHARGE: MTOW1		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS (in mg/l)	BOD(in mg/l)
DETECTION LIMIT	10	2
06.01.2022	24	18
22.01.2022	30	28
GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS	100	30



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NOISE LEVEL MONITORING DATA

NEAR PIT OFFICE:		MTON2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	11.01.2022	45.8	43.6
JAN'22	24.01.2022	46.4	43.9
NOISE POLLUTION (REGULATION AND		55	45

EKTA NAGAR COLONY:		MTON3	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	11.01.2022	45.9	44.5
JAN'22	24.01.2022	45.2	43.8
NOISE POLLUTION (REGULATION AND		75	70

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ENVIRONMENTAL MONITORING REPORT

YEKONA I & II OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JANUARY 2022

Environment Laboratory
NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	
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TEST REPORT NO.	RIN/TR/JAN-22/54	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	MAJRI	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	YEKONA 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	
11.01.2022	12.01.2022	321	189	40	17	10	Clear Sky / Calm
29.01.2022	30.01.2022	312	183	43	17	BDL	Clear Sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	60	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	
11.01.2022	12.01.2022	127	69	33	17	BDL	Clear Sky / Calm
29.01.2022	30.01.2022	112	60	26	12	BDL	Clear Sky / 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	
11.01.2022	12.01.2022	108	60	26	16	BDL	Clear Sky / Calm
29.01.2022	30.01.2022	98	59	20	12	BDL	Clear Sky / 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	
12.01.2022	13.01.2022	134	69	24	12	BDL	Clear Sky / Calm
30.01.2022	31.01.2022	136	60	28	12	BDL	Clear Sky / 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	
12.01.2022	13.01.2022	113	60	22	14	BDL	Clear Sky / Calm
30.01.2022	31.01.2022	128	69	24	13	BDL	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	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LPS 4		

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}	
13.01.2022	14.01.2022	412	295	78	Clear Sky / Calm



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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: YEKONA I OC : 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
12.01.2022	7.68	30	24	BDL
29.01.2022	7.9	24	28	BDL
STANDARDS FOR COAL	5.5 - 9.0	100	250	10

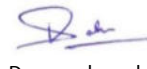
MINE WATER DISCHARGE: YEKONA II OC : MYOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
12.01.2022	7.56	34	40	BDL
29.01.2022	7.8	24	20	BDL
STANDARDS FOR COAL	5.5 - 9.0	100	250	10

ETP : MYOW3				
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
12.01.2022	7.50	26	28	BDL
29.01.2022	7.61	28	44	BDL
STANDARDS FOR COAL	5.5 - 9.0	100	250	10

STP(DOMESTIC EFFLUENT)TREATED: : MYOW4		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS (in mg/l)	BOD(in mg/l)
DETECTION LIMIT	10	2
12.01.2022	30	18
29.01.2022	28	22
GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS GSR 801E EPA 1993	100	30



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NOISE LEVEL MONITORING DATA

PIT OFFICE		MYON1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	11.01.2022	49.7	47.2
JAN'22	24.01.2022	50.7	48.6
NOISE POLLUTION (REGULATION AND		75	70

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ENVIRONMENTAL MONITORING REPORT

ADASA UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JANUARY 2022

Environment Laboratory
NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022
CMPDI
REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
JARIPATKA, NAGPUR, PIN – 440 014

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/1	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2: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					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
03.01.2022	04.01.2022	312	187	58	23	12	Clear Sky / Calm
18.01.2022	19.01.2022	284	179	52	21	11	Cloudy Sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

AT PATHAKHAKHEDI G.P OFFICE		NAUA2					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
04.01.2022	05.01.2022	106	75	32	14	BDL	Clear Sky / Windy
18.01.2022	19.01.2022	128	85	36	12	BDL	Cloudy Sky / Calm
NAAQS, 2009		-	100	60	80	80	

COLONY WATER FILTER PLANT		NSNUA3					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
03.01.2022	04.01.2022	189	82	38	18	BDL	Clear Sky / Calm
17.01.2022	18.01.2022	178	76	30	16	BDL	Cloudy Sky / Calm
NAAQS, 2009		-	100	60	80	80	

KOTODI VILLAGE		NSNUA4					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
03.01.2022	04.01.2022	174	76	32	16	BDL	Clear Sky / Calm
17.01.2022	18.01.2022	162	68	26	14	BDL	Cloudy Sky / Calm
NAAQS, 2009		-	100	60	80	80	

K. Malli

Analysed by

Deepanshu sahu

Deepanshu sahu
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NOISE LEVEL MONITORING DATA

FAN HOUSE: NAUN1		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JAN'22	12.01.2022	67.5	66.1
JAN'22	28.01.2022	69.3	68.6
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

MANAGER OFFICE: NAUN2		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JAN'22	12.01.2022	54.2	51.1
JAN'22	28.01.2022	55.2	54.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

70

COLONY (SAONER): NAUN3		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JAN'22	12.01.2022	44.5	43.2
JAN'22	28.01.2022	42.4	41.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

BHANEGOAN OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JANUARY 2022

Environment Laboratory
NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022
CMPDI
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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/2	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	NAGPUR	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	BHANEGAON OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD	LSOP 4		


NEAR MANAGER OFFICE NBOA1							
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}	NO ₂	SO ₂	
09.01.2022	10.01.2022	329	196	57	24	13	Clear sky / Calm
23.01.2022	24.01.2022	314	178	52	22	11	Cloudy / Calm
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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
09.01.2022	10.01.2022	165	93	34	18	BDL	Clear sky / Calm
23.01.2022	24.01.2022	152	87	31	16	BDL	Cloudy / Calm
NAAQS, 2009		-	100	60	80	80	

BINA VILLAGE NBOA3							
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}	NO ₂	SO ₂	
09.01.2022	10.01.2022	142	85	31	15	BDL	Clear sky / Calm
23.01.2022	24.01.2022	136	76	28	13	BDL	Cloudy / Calm
NAAQS, 2009		-	100	60	80	80	

DORLI VILLAGE NBOA4							
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}	NO ₂	SO ₂	
08.01.2022	09.01.2022	147	56	31	14	BDL	Clear sky / Calm
22.01.2022	23.01.2022	159	62	37	16	BDL	Cloudy / Calm
NAAQS, 2009		-	100	60	80	80	


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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
10.01.2022	7.6	24	52	< 2.0
23.01.2022	7.74	28	60	< 2.0
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)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JAN'22	12.01.2022	53.1	52.2
JAN'22	28.01.2022	54.4	55.6
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

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ENVIRONMENTAL MONITORING REPORT

GONDEGAON OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JANUARY 2022

Environment Laboratory
NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022
CMPDI
REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
JARIPATKA, NAGPUR, PIN – 440 014

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/3	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2: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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
12.01.2022	13.01.2022	346	197	58	26	14	Clear SKY / Calm
24.01.2022	25.01.2022	328	176	53	21	12	Cloudy / Calm
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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
12.01.2022	13.01.2022	157	74	37	15	BDL	Clear SKY / Calm
24.01.2022	25.01.2022	164	78	41	18	BDL	Cloudy / Calm
NAAQS, 2009		-	100	60	80	80	

GUEST HOUSE/FILTER PLANT NGOA3							
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}	NO ₂	SO ₂	
12.01.2022	13.01.2022	195	93	46	17	BDL	Clear SKY / Calm
24.01.2022	25.01.2022	172	86	42	15	BDL	Cloudy / Calm
NAAQS, 2009		-	100	60	80	80	

GHATROHNA VILLAGE NGOA4							
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}	NO ₂	SO ₂	
12.01.2022	13.01.2022	135	64	33	18	BDL	Clear SKY / Calm
24.01.2022	25.01.2022	124	56	30	16	BDL	Cloudy / Calm
NAAQS, 2009		-	100	60	80	80	

K. Malli

Analysed by

Deepanshu sahu

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

GONDEGAON WEIGHT BRIDGE		NGOF1			ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
12.01.2022	13.01.2022	311	194	74	Clear SKY / Calm

CHP		NGOF2			ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
12.01.2022	13.01.2022	356	251	78	Clear SKY / Calm


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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
12.01.2022	7.51	22	48	< 2.0
24.01.2022	7.63	24	56	< 2.0
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
12.01.2022	7.72	16	32	< 2.0
24.01.2022	7.85	18	40	< 2.0
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)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	12.01.2022	58.2	57.1
JAN'22	28.01.2022	66.3	65.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

GONDEGAON VILAGE		NGON2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	12.01.2022	43.1	42.1
JAN'22	28.01.2022	42.4	42.6
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

GHATROHNA VILLAGE:		NGON3	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	12.01.2022	44.2	41.1
JAN'22	28.01.2022	42.2	41.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

JUNI KAMPTEE VILLAGE:		NGON4	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	12.01.2022	42.1	40.9
JAN'22	28.01.2022	42.5	41.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

INDER UG TO OC

NAGPUR AREA

WESTERN COALFIELDS LTD.


JOB NO. 4634420034



JANUARY 2022

Environment Laboratory
NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022
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JARIPATKA, NAGPUR, PIN – 440 014

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Environment Laboratory CMPDI RI-IV, NAGPUR		Test Report			
TEST REPORT NO.	RIN/TR/JAN-21/4	DATE OF ISSUE	28.02.2022		
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR				
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021				
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2: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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11.01.2022	12.01.2022	289	167	54	26	12	Clear sky/ Calm
27.01.2022	28.01.2022	296	173	58	24	11	Cloudy sky/ Calm
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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11.01.2022	12.01.2022	306	174	57	28	14	Clear sky/ Calm
27.01.2022	28.01.2022	291	168	53	24	12	Cloudy sky/ Calm
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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10.01.2022	11.01.2022	205	64	36	18	BDL	Clear sky/ Calm
27.01.2022	28.01.2022	196	58	32	16	BDL	Cloudy sky/ Calm
NAAQS, 2009		-	100	60	80	80	

G.P. OFFICE KANDRI VILLAGE NKCA4							
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}	NO ₂	SO ₂	
10.01.2022	11.01.2022	136	57	29	16	BDL	Clear sky/ Calm
28.01.2022	29.01.2022	127	51	34	14	BDL	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	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LPS 4		

DATE(dd:mm:yy) OF SAMPLING		NEAR COAL STOCK NKCA1 PARAMETERS (24 hourly values in µg/m ³)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
11.01.2022	12.01.2022	5 336	5 213	2 71	Clear SKY / Calm

DATE(dd:mm:yy) OF SAMPLING		W. BRIDGE NKCA2 PARAMETERS (24 hourly values in µg/m ³)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
11.01.2022	12.01.2022	5 314	5 205	2 63	Clear SKY / Calm



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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
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
10-01-2022	7.6	14	36	BDL
27-01-2022	7.71	18	44	BDL
STANDARDS FOR COAL	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

PROJECT OFFICE:		NION1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JAN'22	12.01.2022	56.1	55.1
JAN'22	28.01.2022	56.3	55.5
NOISE POLLUTION (REGULATION AND CONTROL)		75	70

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ENVIRONMENTAL MONITORING REPORT

KAMPTEE DEEP OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JANUARY 2022

Environment Laboratory
NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022
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JARIPATKA, NAGPUR, PIN – 440 014

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/5	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2: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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10.01.2022	11.01.2022	324	189	54	26	12	Clear sky / Calm
27.01.2022	28.01.2022	338	196	58	24	11	Cloudy sky/Calm
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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10.01.2022	11.01.2022	152	76	41	24	11	Clear sky / Calm
28.01.2022	29.01.2022	163	79	45	23	12	Cloudy sky/Calm
NAAQS, 2009		-	100	60	80	80	

COLONY WATER TREATMENT PLANT NKCA3							
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}	NO ₂	SO ₂	
10.01.2022	11.01.2022	205	64	36	18	BDL	Clear sky / Calm
27.01.2022	28.01.2022	196	58	32	16	BDL	Cloudy sky/Calm
		-	100	60	80	80	

G.P. OFFICE KANDRI VILLAGE NKCA4							
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}	NO ₂	SO ₂	
10.01.2022	11.01.2022	136	57	29	16	BDL	Clear sky / Calm
28.01.2022	29.01.2022	127	51	34	14	BDL	Cloudy sky/Calm
NAAQS, 2009		-	100	60	80	80	

K. Malli

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Deepanshu sahu

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

CHP NKODF1					
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}	
10.01.2022	11.01.2022	354	224	76	clear sky/calm

KAMPTEE RAILWAY SIDING NKDOF2					
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}	
10.01.2022	11.01.2022	309	199	68	clear sky/calm



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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
11.01.2022	7.45	38	84	< 2.0
28.01.2022	7.52	34	92	< 2.0
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	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	12.01.2022	61.1	59.1
JAN'22	28.01.2022	66.4	65.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY(KAMPTEE): NKC2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	12.01.2022	43.4	42.2
JAN'22	28.01.2022	42.5	41.6
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

PATANSAONGI UG

NAGPUR AREA

WESTERN COALFIELDS LTD.


JOB NO. 4634420034



JANUARY 2022

Environment Laboratory
NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022
CMPDI
REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/6	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2: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		


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}	NO ₂	SO ₂	
05.01.2022	06.01.2022	338	225	57	27	13	Clear sky / Windy
19.01.2022	20.01.2022	316	214	52	24	12	Cloudy Sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

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}	NO ₂	SO ₂	
05.01.2022	06.01.2022	194	81	44	21	11	Clear sky / Windy
19.01.2022	20.01.2022	179	76	40	19	10	Cloudy Sky / Calm
NAAQS, 2009		-	100	60	80	80	

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}	NO ₂	SO ₂	
05.01.2022	06.01.2022	226	89	47	24	12	Clear sky / Windy
19.01.2022	20.01.2022	214	82	42	22	11	Cloudy Sky / Calm
NAAQS, 2009		-	100	60	80	80	

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}	NO ₂	SO ₂	
05.01.2022	06.01.2022	165	78	36	15	BDL	Clear sky / Windy
19.01.2022	20.01.2022	153	69	30	13	BDL	Cloudy Sky / Calm
NAAQS, 2009		-	100	60	80	80	


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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
05.01.2022	7.72	16	32	< 2.0
19.01.2022	7.81	14	36	< 2.0
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: NPTUN1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	12.01.2022	68.2	67.1
JAN'22	28.01.2022	67.3	66.4
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
JAN'22	12.01.2022	46.2	45.1
JAN'22	28.01.2022	42.2	41.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

PIPLA UG

NAGPUR AREA

WESTERN COALFIELDS LTD.


JOB NO. 4634420034



JANUARY 2022

Environment Laboratory
NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022
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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/7	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2: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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
06.01.2022	07.01.2022	315	187	51	22	11	Clear sky / Calm
20.01.2022	21.01.2022	308	176	46	20	10	Cloudy sky / Calm
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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
06.01.2022	07.01.2022	283	172	47	20	BDL	Clear sky / Calm
20.01.2022	21.01.2022	264	163	41	18	BDL	Cloudy sky / Calm
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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
06.01.2022	07.01.2022	167	84	37	18	BDL	Clear sky / Calm
20.01.2022	21.01.2022	156	78	32	16	BDL	Cloudy sky / Calm
NAAQS, 2009		-	100	60	80	80	

SHIV MANDIR NPUA4							
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}	NO ₂	SO ₂	
06.01.2022	07.01.2022	128	73	32	16	BDL	Clear sky / Calm
20.01.2022	21.01.2022	136	81	38	18	BDL	Cloudy sky / Calm
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)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	12.01.2022	60.2	59.9
JAN'22	28.01.2022	61.2	60.3
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

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ENVIRONMENTAL MONITORING REPORT

SAONER UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JANUARY 2022

Environment Laboratory
NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022
CMPDI
REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
JARIPATKA, NAGPUR, PIN – 440 014

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/8	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
03.01.2022	04.01.2022	312	197	58	26	13	Clear Sky / Calm
17.01.2022	18.01.2022	304	186	52	23	11	Cloudy Sky / 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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
03.01.2022	04.01.2022	296	184	56	24	12	Clear Sky / Calm
17.01.2022	18.01.2022	273	175	50	21	11	Cloudy Sky / 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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
03.01.2022	04.01.2022	189	82	38	18	BDL	Clear Sky / Calm
17.01.2022	18.01.2022	178	76	30	16	BDL	Cloudy Sky / Calm
NAAQS, 2009		-	100	60	80	80	

KOTODI VILLAGE NSNU4							
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}	NO ₂	SO ₂	
03.01.2022	04.01.2022	174	76	32	16	BDL	Clear Sky / Calm
17.01.2022	18.01.2022	162	68	26	14	BDL	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	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LPS 4		

SAONER UG NSUGF1					
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}	
04.01.2022	05.01.2022	364	235	76	Clear Sky / Calm

RAILWAY SIDING NSUGF2					
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}	
04.01.2022	05.01.2022	347	214	70	Clear Sky / Calm



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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
04.01.2022	7.91	14	24	< 2.0
18.01.2022	7.99	12	20	< 2.0
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
04.01.2022	7.96	16	32	< 2.0
18.01.2022	7.84	14	40	< 2.0
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
04.01.2022	8.05	12	28	< 2.0
18.01.2022	8.13	16	32	< 2.0
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	20
JAN'22	12.01.2022	69.9	67.2
JAN'22	28.01.2022	69.4	68.6
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	20
JAN'22	12.01.2022	62.1	60.3
JAN'22	28.01.2022	69.2	68.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

FAN HOUSE-III: NSNUN3			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	12.01.2022	68.1	67.2
JAN'22	28.01.2022	69.4	69.6
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY: NSNUN4			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	12.01.2022	44.5	43.2
JAN'22	28.01.2022	42.4	41.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

SILEWARA UG

NAGPUR AREA

WESTERN COALFIELDS LTD.


JOB NO. 4634420034



JANUARY 2022

Environment Laboratory
NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022
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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/9	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2: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 FLANT 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	
07.01.2022	08.01.2022	336	213	59	24	12	Clear Sky / Calm
21.01.2022	22.01.2022	315	207	52	21	11	Cloudy Sky / Calm
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	
07.01.2022	08.01.2022	284	196	56	22	11	Clear Sky / Calm
21.01.2022	22.01.2022	295	174	50	23	12	Cloudy Sky / Calm
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	
07.01.2022	08.01.2022	168	74	45	19	BDL	Clear Sky / Calm
21.01.2022	22.01.2022	176	79	48	21	BDL	Cloudy Sky / Calm
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	
07.01.2022	08.01.2022	152	65	42	17	BDL	Clear Sky / Calm
21.01.2022	22.01.2022	164	71	45	19	BDL	Cloudy Sky / Calm
NAAQS, 2009		-	100	60	80	80	

K. Mallik

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Deepanshu sahu

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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
07.01.2022	7.58	12	28	< 2.0
21.01.2022	7.63	10	24	< 2.0
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
JAN'22	12.01.2022	69.2	68.1
JAN'22	28.01.2022	69.2	68.5
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
JAN'22	12.01.2022	47.5	46.2
JAN'22	28.01.2022	42.3	41.6
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

SINGORI OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JANUARY 2022

Environment Laboratory
NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022
CMPDI
REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
JARIPATKA, NAGPUR, PIN – 440 014

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/10	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
08.01.2022	09.01.2022	305	175	58	23	12	Clear sky / Calm
22.01.2022	23.01.2022	292	164	52	20	10	Cloudy Sky / Calm
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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
08.01.2022	09.01.2022	189	78	45	18	BDL	Clear sky / Calm
22.01.2022	23.01.2022	196	83	49	20	BDL	Cloudy Sky / Calm
NAAQS, 2009		-	100	60	80	80	

HINGNA VILLAGE NSOA3							
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}	NO ₂	SO ₂	
08.01.2022	09.01.2022	152	64	36	16	BDL	Clear sky / Calm
22.01.2022	23.01.2022	165	69	41	14	BDL	Cloudy Sky / Calm
NAAQS, 2009		-	100	60	80	80	

DORLI VILLAGE NBOA4							
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}	NO ₂	SO ₂	
08.01.2022	09.01.2022	147	56	31	14	BDL	Clear sky / Calm
22.01.2022	23.01.2022	159	62	37	16	BDL	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	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LPS 4		

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}	
09.01.2022	10.01.2022	356	209	68	Clear sky / Calm

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}	
09.01.2022	10.01.2022	323	186	66	Clear sky / Calm



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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
08.01.2022	7.84	26	60	< 2.0
23.01.2022	7.71	22	68	< 2.0
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	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	12.01.2022	56.6	55.2
JAN'22	28.01.2022	55.2	54.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

SOHALI VILLAGE: NSON2			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	12.01.2022	42.1	40.9
JAN'22	28.01.2022	42.3	41.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

NEAR DRILING SITE: NSON3			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	12.01.2022	56.2	55.2
JAN'22	28.01.2022	57.2	56.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

NEAR DOSING SITE: NSON4			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	12.01.2022	58.2	55.2
JAN'22	28.01.2022	56.4	55.6
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

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ENVIRONMENTAL MONITORING REPORT

CWS TADALI

CWS TADALI

WESTERN COALFIELDS LTD.


JOB NO. 4634420034



JANUARY 2022

Environment Laboratory
NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022
CMPDI
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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/84	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2: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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
03.01.2022	04.01.2022	238	148	54	14	BDL	Clear Sky / Calm
16.01.2022	17.01.2022	245	155	59	13	BDL	Clear Sky / Calm
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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
03.01.2022	04.01.2022	162	86	36	8	BDL	Clear Sky / Calm
16.01.2022	17.01.2022	148	82	34	9	BDL	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	

ADMINISTRATIVE BUILDING: CWSA3							
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}	NO ₂	SO ₂	
03.01.2022	04.01.2022	138	79	28	7	BDL	Clear Sky / Calm
16.01.2022	17.01.2022	127	72	26	6	BDL	Clear Sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

CWS COLONY: CWSA4							
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}	NO ₂	SO ₂	
03.01.2022	04.01.2022	132	85	32	8	BDL	Clear Sky / Calm
16.01.2022	17.01.2022	136	87	28	7	BDL	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	

J. Shrivastava

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Deepanshu Sahu

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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
03.01.2022	7.47	26	32	2.7
17.01.2022	7.75	18	28	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	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	11-01-2022	47.7	45.4
JAN'22	24-01-2022	47.2	45.8
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY(CWS): CWSN2			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	11-01-2022	45.8	43.5
JAN'22	24-01-2022	45.8	42.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

DINESH OCP

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JANUARY 2022


Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

CMPDI

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

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/11	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
		5	5	2	6	10	
04.01.2022	05.01.2022	265	165	32	17	BDL	Clear Sky / Calm
18.01.2022	19.01.2022	210	156	34	18	BDL	Clear Sky / Calm
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)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
		5	5	2	6	10	
15.01.2022	16.01.2022	243	156	32	19	BDL	Clear Sky /L.Breeze
29.01.2022	30.01.2022	279	178	40	16	BDL	Clear Sky /L.Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

PIPARDOL VILLAGE UM30A3							
DATE(dd:mm:yy) OF SAMPLING		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	
12.01.2022	13.01.2022	102	63	22	13	BDL	Clear Sky / Calm
24.01.2022	25.01.2022	143	78	26	12	BDL	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	

WELSAKARA VILLAGE UM30A4							
DATE(dd:mm:yy) OF SAMPLING		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	
13.01.2022	14.01.2022	132	70	27	11	BDL	Clear Sky /L.Breeze
27.01.2022	28.01.2022	123	80	32	12	BDL	Clear Sky /L.Breeze
NAAQS, 2009		-	100	60	80	80	


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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
04.01.2022	7.63	32	44	BDL
18.01.2022	7.56	36	48	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

ETP: 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
04.01.2022	8.1	22	36	BDL
18.01.2022	7.94	26	40	BDL
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		UGON1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JAN'22	14.01.2022	52.8	51.7
JAN'22	29.01.2022	51.8	50.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

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ENVIRONMENTAL MONITORING REPORT

GOKUL OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JANUARY 2022


Environment Laboratory

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	
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TEST REPORT NO.		RIN/TR/JAN-22/12	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER		GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.		WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
FROM	TO	5	5	2	6	10	
03.01.2022	04.01.2022	297	182	46	16	BDL	Clear Sky / L.Breeze
17.01.2022	18.01.2022	246	178	43	18	BDL	Clear Sky / L.Breeze
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)
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
FROM	TO	5	5	2	6	10	
03.01.2022	04.01.2022	134	82	26	12	BDL	Clear Sky / L.Breeze
04.01.2022	05.01.2022	122	68	23	11	BDL	Clear Sky / L.Breeze
12.01.2022	13.01.2022	110	56	26	11	BDL	Clear Sky / L.Breeze
13.01.2022	14.01.2022	145	82	28	12	BDL	Clear Sky / L.Breeze
17.01.2022	18.01.2022	120	65	21	13	BDL	Clear Sky / L.Breeze
18.01.2022	19.01.2022	149	78	28	12	BDL	Clear Sky / L.Breeze
24.01.2022	25.01.2022	110	55	28	14	BDL	Clear Sky / L.Breeze
27.01.2022	28.01.2022	154	87	29	16	BDL	Clear Sky / L.Breeze
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)
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
FROM	TO	5	5	2	6	10	
03.01.2022	04.01.2022	123	67	21	12	BDL	Clear Sky / L.Breeze
04.01.2022	05.01.2022	145	87	27	13	BDL	Clear Sky / L.Breeze
12.01.2022	13.01.2022	126	62	20	12	BDL	Clear Sky / L.Breeze
13.01.2022	14.01.2022	120	73	28	12	BDL	Clear Sky / L.Breeze
17.01.2022	18.01.2022	145	76	24	14	BDL	Clear Sky / L.Breeze
18.01.2022	19.01.2022	143	82	25	12	BDL	Clear Sky / L.Breeze
24.01.2022	25.01.2022	156	69	21	15	BDL	Clear Sky / L.Breeze
27.01.2022	28.01.2022	135	70	28	13	BDL	Clear Sky / L.Breeze
NAAQS, 2009		-	100	60	80	80	

POLGAON VILLAGE		UGOA4					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) AND TIME (12 hr format) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)					
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
		5	5	2	6	10	
03.01.2022	04.01.2022	112	59	20	12	BDL	Clear Sky / L.Breeze
04.01.2022	05.01.2022	149	76	23	13	BDL	Clear Sky / L.Breeze
12.01.2022	13.01.2022	114	69	21	13	BDL	Clear Sky / L.Breeze
13.01.2022	14.01.2022	134	76	29	13	BDL	Clear Sky / L.Breeze
17.01.2022	18.01.2022	112	56	25	12	BDL	Clear Sky / L.Breeze
18.01.2022	19.01.2022	134	72	27	11	BDL	Clear Sky / L.Breeze
24.01.2022	25.01.2022	118	61	20	10	BDL	Clear Sky / L.Breeze
27.01.2022	28.01.2022	143	81	22	10	BDL	Clear Sky / L.Breeze
NAAQS, 2009		-	100	60	80		



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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
03.01.2022	7.91	22	32	BDL
17.01.2022	7.75	26	36	BDL
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
03.01.2022	7.45	32	40	BDL
17.01.2022	7.59	36	48	BDL
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: UGON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	14.01.2022	55.5	54.3
JAN'22	29.01.2022	54.9	53.6
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

CONTRACTOR CAMP: UGON2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	14.01.2022	54.4	53.8
JAN'22	29.01.2022	55.7	54.3
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

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ENVIRONMENTAL MONITORING REPORT

MAKARDHOKRA-II OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JANUARY 2022

Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/14	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
		5	5	2	6	10	
14.01.2022	15.01.2022	283	187	40	18	BDL	Clear sky/Calm
28.01.2022	29.01.2022	278	189	42	15	BDL	Clear sky/Calm
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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
		5	5	2	6	10	
14.01.2022	15.01.2022	245	156	34	17	BDL	Clear sky/Calm
28.01.2022	29.01.2022	254	145	46	15	BDL	Clear sky/Calm
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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
		5	5	2	6	10	
13.01.2022	14.01.2022	132	65	23	12	BDL	Clear sky/Calm
29.01.2022	30.01.2022	143	75	26	14	BDL	Clear sky/Calm
NAAQS, 2009		-	100	60	80	80	

NEAR PUMP HOUSE COLONY UMOA4							
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}	NO ₂	SO ₂	
		5	5	2	6	10	
13.01.2022	14.01.2022	134	81	27	12	BDL	Clear sky/Calm
29.01.2022	30.01.2022	157	84	18	13	BDL	Clear sky/Calm
NAAQS, 2009		-	100	60	80	80	



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NOISE LEVEL MONITORING DATA

NEAR PIT OFFICE: UMON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	NOISE LEVEL IN dB(A)
		DAY TIME	DAY TIME
	DETECTION LIMIT	20	20
JAN'22	14.01.2022	51.5	50.9
JAN'22	29.01.2022	52.6	51.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

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ENVIRONMENTAL MONITORING REPORT

MAKARDHOKRA-I OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JANUARY 2022

Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/13	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
14.01.2022	15.01.2022	312	190	30	19	BDL	Clear sky / Calm
28.01.2022	29.01.2022	256	162	32	20	BDL	Clear sky / Calm
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)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
14.01.2022	15.01.2022	120	75	29	15	BDL	Clear sky / Calm
28.01.2022	29.01.2022	130	69	24	12	BDL	Clear sky / Calm
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)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
14.01.2022	15.01.2022	125	72	22	16	BDL	Clear sky / Calm
28.01.2022	29.01.2022	140	75	26	12	BDL	Clear sky / Calm
NAAQS, 2009		-	100	60	80	80	

KHURSAPUR VILLAGE UM10A4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
15.01.2022	16.01.2022	108	60	18	12	BDL	Clear sky / Calm
29.01.2022	30.01.2022	147	70	27	13	BDL	Clear sky / Calm
NAAQS, 2009		-	100	60	80	80	

AIR SAMPLE HEOTI VILLAGE UM10A5							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
14.01.2022	15.01.2022	126	79	26	12	BDL	Clear sky / Calm
28.01.2022	29.01.2022	120	68	23	14	BDL	Clear sky / Calm
NAAQS, 2009		-	100	60	80	80	



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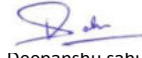
SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition)
SAMPLING METHOD	LSOP 5

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
14.01.2022	7.6	28	32	BDL
28.01.2022	7.5	26	40	BDL
STANDARDS FOR COAL	5.5 - 9.0	100	250	10

ETP: UM1OW2				
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
14.01.2022	7.96	26	36	BDL
28.01.2022	7.88	28	44	BDL
STANDARDS FOR COAL	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

PIT OFFICE: UM10N1		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	14.01.2022	55.3	54.2
JAN22	29.01.2022	54.9	53.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

SIRPUR VILLAGE: UM10N2		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	14.01.2022	45.3	44.7
JAN22	29.01.2022	44.9	43.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

HEOTI VILLAGE: UM10N3		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	14.01.2022	44.6	43.1
JAN22	29.01.2022	45.6	44.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

MORPAR UG

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JANUARY 2022

Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

CMPDI

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

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/15	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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	
11.01.2022	12.01.2022	280	182	22	18	BDL	Clear sky/Calm
23.01.2022	24.01.2022	267	187	38	16	BDL	Clear sky/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

NEAR MAGAZINE 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	
11.01.2022	12.01.2022	254	156	38	13	BDL	Clear sky/Calm
23.01.2022	24.01.2022	267	178	30	16	BDL	Clear sky/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

COLONY (MURPAR UG) 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	
11.01.2022	12.01.2022	156	82	20	12	BDL	Clear sky/Calm
23.01.2022	24.01.2022	132	67	23	14	BDL	Clear sky/Calm
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	
11.01.2022	12.01.2022	118	68	25	12	BDL	Clear sky/Calm
23.01.2022	24.01.2022	130	76	24	14	BDL	Clear sky/Calm
NAAQS, 2009		-	100	60	80	80	



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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
11.01.2022	7.75	34	40	BDL
23.01.2022	7.60	36	44	BDL
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)	
	DETECTION LIMIT	DAY TIME	Night time
		20	20
JAN'22	11.01.2022	55.3	54.6
JAN'22	23.01.2022	54.8	53.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY:		UMUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	Night time
		20	20
JAN'22	11.01.2022	46.1	45.9
JAN'22	23.01.2022	45.3	44.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

UMRER OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JANUARY 2022

Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.		RIN/TR/JAN-22/16	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER		GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.		WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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 µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
FROM	TO	5	5	2	6	10	
13.01.2022	14.01.2022	278	176	39	18	BDL	Clear sky/L.Breeze
29.01.2022	30.01.2022	298	187	38	16	BDL	Clear sky/L.Breeze
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 µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
FROM	TO	5	5	2	6	10	
13.01.2022	14.01.2022	230	164	46	17	BDL	Clear sky/L.Breeze
29.01.2022	30.01.2022	233	145	30	15	BDL	Clear sky/L.Breeze
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 µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
FROM	TO	5	5	2	6	10	
13.01.2022	14.01.2022	132	65	23	12	BDL	Clear sky/L.Breeze
29.01.2022	30.01.2022	143	75	26	14	BDL	Clear sky/L.Breeze
NAAQS, 2009		-	100	60	80	80	

		NEAR PUMP HOUSE COLONY UUOA4					
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	
13.01.2022	14.01.2022	134	81	27	12	BDL	Clear sky/L.Breeze
29.01.2022	30.01.2022	157	84	18	13	BDL	Clear sky/L.Breeze
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	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LPS 4		

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
14.01.2022	15.01.2022	390	256	69	Clear sky/L.Breeze

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
14.01.2022	15.01.2022	412	292	72	Clear sky/L.Breeze

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
14.01.2022	15.01.2022	346	230	65	Clear sky/L.Breeze



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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
13.01.2022	8.01	26	40	BDL
29.01.2022	7.92	28	36	BDL
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
13.01.2022	7.86	24	28	BDL
29.01.2022	7.68	22	32	BDL
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
13.01.2022	36	14.6
29.01.2022	34	12.6
GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS GSR 801E EPA 1993	100	30



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NOISE LEVEL MONITORING DATA

CHP: UUON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	NOISE LEVEL IN dB(A)
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JAN'22	14.01.2022	54.5	53.1
JAN'22	29.01.2022	55.6	54.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY: UUON2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	NOISE LEVEL IN dB(A)
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JAN'22	14.01.2022	45.2	44.4
JAN'22	29.01.2022	46.3	45.8
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

GHUGUS OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JANUARY 2022

Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/ 36	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS A64:J685182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2: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	
08.01.2022	09.01.2022	236	144	66	20	16	Clear Sky / Calm
30.01.2022	31.01.2022	244	156	68	22	18	Clear Sky / 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	
07.01.2022	08.01.2022	224	136	60	22	16	Clear Sky / Calm
16.01.2022	17.01.2022	232	140	66	24	18	Cloudy Sky / Calm
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	
08.01.2022	09.01.2022	128	68	40	18	14	Clear Sky / Calm
16.01.2022	17.01.2022	132	72	42	20	16	Cloudy Sky / Calm
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	
07.01.2022	08.01.2022	140	74	36	16	12	Clear Sky / Calm
24.01.2022	25.01.2022	118	64	38	12	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
SAMPLE DESCRIPTION	Air sample(Fugitive)
SAMPLING METHOD : LSOP 4	

CHP: WGOF1					
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}	
14.01.2022	15.01.2022	5	5	2	Clear Sky / Calm
		328	216	66	

RAILWAY SIDING: WGOF2					
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}	
15.01.2022	16.01.2022	5	5	2	Clear Sky / Calm
		336	228	72	



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NOISE LEVEL MONITORING DATA

CHP: WGON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	12.01.2022	64.2	62.8
JAN'22	28.01.2022	64.5	62.4
NOISE POLLUTION (REGULATION AND		75	70

COLONY(GHUGUS): WGON2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	12.01.2022	44.1	43.4
JAN'22	28.01.2022	44.3	43.1
NOISE POLLUTION (REGULATION AND		55	45

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ENVIRONMENTAL MONITORING REPORT

KOLGAON OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JANUARY 2022

Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/37	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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		

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
06.01.2022	07.01.2022	232	144	58	20	14	Clear Sky/ Calm
23.01.2022	24.01.2022	248	152	62	14	12	Clear Sky/ Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
06.01.2022	07.01.2022	248	166	66	26	20	Clear Sky/ Calm
24.01.2022	25.01.2022	254	170	72	20	16	Clear Sky/ Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
06.01.2022	07.01.2022	118	68	36	16	12	Clear Sky/L.Breeze
23.01.2022	24.01.2022	122	72	40	12	10	Clear Sky/Calm
NAAQS, 2009		-	100	60	80	80	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
07.01.2022	08.01.2022	116	64	32	18	14	Clear Sky/L.Breeze
24.01.2022	25.01.2022	120	70	36	14	12	Clear Sky/Calm
NAAQS, 2009		-	100	60	80	80	



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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
06.01.2022	7.92	44	80	BDL
24.01.2022	7.77	36	76	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

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

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}	
15.01.2022	16.01.2022	334	232	68	Cloudy Sky / Lightbreeze



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NOISE LEVEL MONITORING DATA

MANAGER OFFICE:		WKON1	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	12.01.2022	55.2	53.1
JAN'22	28.01.2022	55.4	52.3
NOISE POLLUTION (REGULATION AND		75	70

COLONY(MUNGOLI):		WKON2	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	12.01.2022	44.5	42.3
JAN'22	28.01.2022	44.7	42.5
NOISE POLLUTION (REGULATION AND		55	45

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ENVIRONMENTAL MONITORING REPORT

MUGOLI OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JANUARY 2022


Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

CMPDI

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

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/38	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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	MUGOLI OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

DATE(dd:mm:yy) OF SAMPLING		SUBSTATION WMOA1 PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
07.01.2022	08.01.2022	246	156	68	24	18	Clear Sky/L. Breeze
24.01.2022	25.01.2022	256	164	70	26	16	Clear Sky/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

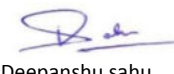
DATE(dd:mm:yy) OF SAMPLING		SAM OFFICE WMOA2 PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
06.01.2022	07.01.2022	248	166	66	26	20	Clear Sky/L. Breeze
24.01.2022	25.01.2022	254	170	72	20	16	Clear Sky/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

DATE(dd:mm:yy) OF SAMPLING		KAILSHNAGAR TOWNSHIP - FILTER PLANT WMOA3 PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
07.01.2022	08.01.2022	116	64	32	18	14	Clear Sky/L. Breeze
24.01.2022	25.01.2022	120	70	36	14	12	Clear Sky/Calm
NAAQS, 2009		-	100	60	80	80	

DATE(dd:mm:yy) OF SAMPLING		TUBEWELL NEAR SAKHARA VILLAGE WMOA4 PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
06.01.2022	07.01.2022	122	70	34	16	12	Clear Sky/L. Breeze
24.01.2022	25.01.2022	126	76	38	10	10	Clear Sky/Calm
NAAQS, 2009		-	100	60	80	80	



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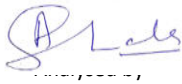
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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 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
07.01.2022	7.62	22	40	BDL
24.01.2022	7.14	26	44	BDL
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
07.01.2022	7.56	28	48	BDL
24.01.2022	7.51	20	32	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10




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

DATE(dd:mm:yy) OF SAMPLING		SECURITY CHECK POST WMOF1			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PARAMETERS (24 hourly values in µg/m ³)			
		SPM	PM ₁₀	PM _{2.5}	
15.01.2022	16.01.2022	5	5	2	Clear Sky/L. Breeze
		376	266	76	



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NOISE LEVEL MONITORING DATA

CHP: WMON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	12.01.2022	64.8	63.6
JAN'22	28.01.2022	64.6	63.3
NOISE POLLUTION (REGULATION AND		75	70

COLONY(MUNGOLI): WMON2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	12.01.2022	44.5	42.3
JAN'22	28.01.2022	44.7	42.5
NOISE POLLUTION (REGULATION AND		55	45

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ENVIRONMENTAL MONITORING REPORT

NAIGAON OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JANUARY 2022

Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/39	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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	
09.01.2022	10.01.2022	266	166	70	26	18	Clear Sky/Calm
30.01.2022	31.01.2022	278	174	74	28	20	Clear Sky/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	
09.01.2022	10.01.2022	240	166	60	22	16	Clear Sky/Calm
30.01.2022	31.01.2022	246	172	64	18	14	Clear Sky/Calm
STANDARDS FOR COAL MINE, GSR 742(E),		600	300	60	120	120	

BELLORA REHABILITATION VILLAGE WNGOA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
08.01.2022	09.01.2022	116	70	38	16	12	Clear Sky/Calm
16.01.2022	17.01.2022	106	64	32	10	10	Clear Sky/Calm
NAAQS, 2009		-	100	60	80	80	

FILTER PLANT NEAR VIP GUEST HOUSE 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	
08.01.2022	09.01.2022	120	74	40	14	12	Clear Sky/Calm
16.01.2022	17.01.2022	110	68	36	10	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	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LSOP 4		

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}	
14.01.2022	15.01.2022	366	276	72	Clear Sky/Lightbreeze



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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
SAMPLING METHOD	LSOP 5

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	2	10	4	2
09.01.2022	3.52	64	16	BDL
30.01.2022	3.82	60	12	BDL
STANDARDS FOR COAL	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

CHP: WNGON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	12.01.2022	63.7	62.5
JAN'22	28.01.2022	63.9	62.2
NOISE POLLUTION (REGULATION AND		75	70

COLONY(GHUGUS): WNGON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	12.01.2022	44.1	43.4
JAN'22	28.01.2022	44.3	43.1
NOISE POLLUTION (REGULATION AND		55	45

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ENVIRONMENTAL MONITORING REPORT

NILJAI DEEP OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JANUARY 2022


Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/40	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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 OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

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}	NO ₂	SO ₂	
09.01.2022	10.01.2022	228	160	58	20	16	Clear Sky/Calm
30.01.2022	31.01.2022	236	156	62	22	18	Clear Sky/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

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}	NO ₂	SO ₂	
09.01.2022	10.01.2022	240	166	60	22	16	Clear Sky/Calm
30.01.2022	31.01.2022	246	172	64	18	14	Clear Sky/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

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}	NO ₂	SO ₂	
09.01.2022	10.01.2022	108	60	38	18	14	Clear Sky/Calm
30.01.2022	31.01.2022	112	64	42	14	12	Clear Sky/Calm
NAAQS, 2009		-	100	60	80	80	

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}	NO ₂	SO ₂	
10.01.2022	11.01.2022	98	60	28	14	12	Clear Sky/Calm
29.01.2022	30.01.2022	104	56	34	10	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		

DATE(dd:mm:yy) OF SAMPLING		WEIGHT BRIDGE WNOF1			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PARAMETERS (24 hourly values in µg/m ³)			
		SPM	PM ₁₀	PM _{2.5}	
14.01.2022	15.01.2022	5	5	2	Clear Sky/ Lightbreeze
		364	248	70	

DATE(dd:mm:yy) OF SAMPLING		CHP WNOF2			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PARAMETERS (24 hourly values in µg/m ³)			
		SPM	PM ₁₀	PM _{2.5}	
14.01.2022	15.01.2022	5	5	2	Clear Sky/ Lightbreeze
		380	284	76	



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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
10.01.2022	7.24	26	44	BDL
30.01.2022	7.07	20	28	BDL
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
10.01.2022	7.82	34	64	BDL
30.01.2022	7.24	26	36	BDL
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
10.01.2022	60	16
30.01.2022	58	14
GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS	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	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	12.01.2022	64.6	63.4
JAN'22	28.01.2022	64.2	63.5
NOISE POLLUTION (REGULATION AND CONTROL)		75	70

CHP-NILJAI(S):		WNON2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	12.01.2022	63.2	62.6
JAN'22	28.01.2022	63.4	62.1
NOISE POLLUTION (REGULATION AND CONTROL)		75	70

COLONY(NILJAI):		WNON3	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	12.01.2022	44.5	42.1
JAN'22	28.01.2022	44.8	42.7
NOISE POLLUTION (REGULATION AND CONTROL)		55	45

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ENVIRONMENTAL MONITORING REPORT

PENGANGA OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JANUARY 2022

Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

CMPDI

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

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/41	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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			

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
05.01.2022	06.01.2022	232	160	64	26	20	Clear Sky/ Lightbreeze
23.01.2022	24.01.2022	244	164	68	28	16	Clear Sky/ Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
05.01.2022	06.01.2022	268	170	70	24	20	Clear Sky/ Lightbreeze
23.01.2022	24.01.2022	276	174	74	18	14	Clear Sky/ Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
05.01.2022	06.01.2022	116	70	30	16	12	Clear Sky/ Lightbreeze
23.01.2022	24.01.2022	122	74	34	12	10	Clear Sky/ Lightbreeze
NAAQS, 2009		-	100	60	80	80	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
05.01.2022	06.01.2022	110	64	28	18	14	Clear Sky/ Lightbreeze
23.01.2022	24.01.2022	114	68	32	14	10	Clear Sky/ Lightbreeze
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		

DATE(dd:mm:yy) OF SAMPLING		NEAR KARGIL CHOWK WPOF1			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PARAMETERS (24 hourly values in µg/m ³)			
		SPM	PM ₁₀	PM _{2.5}	
15.01.2022	16.01.2022	5	5	2	Clear Sky/ Lightbreeze
		324	210	66	



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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
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
05.01.2022	7.12	18	28	BDL
23.01.2022	7.23	26	40	BDL
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: WPON1			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	12.01.2022	55.7	54.2
JAN'22	28.01.2022	55.9	54.4
NOISE POLLUTION (REGULATION AND		75	70

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ENVIRONMENTAL MONITORING REPORT

GHONSA OC

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JANUARY 2022


Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/43	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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 NORTH	SAMPLING PLAN :	LQR 47
NAME OF PROJECT	GHONSA OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD :	LSOP 4		

PROJECT MANAGER 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	
09.01.2022	10.01.2022	248	154	68	24	18	Cloudy Sky / Calm
27.01.2022	28.01.2022	262	170	72	26	20	Clear Sky / Clear
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SAM OFFICE/ CANTEEN WNKUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
09.01.2022	10.01.2022	230	140	58	22	16	Cloudy Sky / Calm
27.01.2022	28.01.2022	252	154	66	20	116	58
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

GHONSA 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	
09.01.2022	10.01.2022	116	66	34	14	12	Cloudy Sky / Calm
27.01.2022	28.01.2022	122	72	38	16	10	Clear Sky / Clear
NAAQS, 2009		-	100	60	80	80	

GUEST HOUSE/ COLONY WNKUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
09.01.2022	10.01.2022	116	58	32	16	14	Cloudy Sky / Clear
27.01.2022	28.01.2022	122	62	36	12	10	Cloudy Sky / Calm
NAAQS, 2009		-	100	60	80	80	Clear Sky / Clear



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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: WNGOW1				
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
09.01.2022	7.72	36	56	BDL
27.01.2022	7.89	40	72	BDL
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:		WNGON1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JAN'22	12-01-2022	50.7	47.6
JAN'22	29-01-2022	47.4	45.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

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ENVIRONMENTAL MONITORING REPORT

JUNAD OC

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JANUARY 2022


Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-21/42	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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 NORTH	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	JUNAD OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10.01.2022	11.01.2022	252	160	58	24	20	Cloudy Sky / Calm
28.01.2022	29.01.2022	260	164	66	26	18	Cloudy Sky / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH September 2000		600	300	-	120	120	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10.01.2022	11.01.2022	108	58	32	14	10	Cloudy Sky / Calm
28.01.2022	29.01.2022	112	66	34	10	10	Cloudy Sky / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10.01.2022	11.01.2022	110	60	28	12	10	Rainy Sky / Calm
29.01.2022	30.01.2022	114	58	32	10	10	Cloudy Sky / Calm
NAAQS, 2009		-	100	60	80	80	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10.01.2022	11.01.2022	104	54	26	10	10	Rainy Sky / Calm
29.01.2022	30.01.2022	110	58	30	12	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	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LSOP 4		

DATE(dd:mm:yy) OF SAMPLING		SECURITY POST	WOF1		ENVIRONMENT CONDITIONS (Sky/Wind)
		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
15.01.2022	16.01.2022	5	5	2	Cloudy / Calm
		340	248	70	



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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
SAMPLING METHOD	LSOP 5

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	2	10	4	2
10.01.2022	7.12	24	40	BDL
28.01.2022	7.34	26	44	BDL
STANDARDS FOR COAL MINE,	5.5 - 9.0	100	250	10

ETP DISCHARGE: WNJOW2				
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
10.01.2022	7.32	20	28	BDL
28.01.2022	7.24	32	48	BDL
STANDARDS FOR COAL MINE,	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

MANAGER OFFICE: WNJON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JAN'22	12.01.2022	54.6	52.5
JAN'22	28.01.2022	54.8	52.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

BHALAR COLONY: WNJON2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JAN'22	12.01.2022	44.4	42.8
JAN'22	28.01.2022	44.6	43.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

KOLARPIMPRI OC

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JANUARY 2022

Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/44	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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 NORTH	SAMPLING PLAN :	LQR 47
NAME OF PROJECT	KOLARPIMPRI OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD :	LSOP 4		

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}	NO ₂	SO ₂	
04.01.2022	05.01.2022	234	144	60	20	18	Clear Sky /Calm
21.01.2022	22.01.2022	240	154	66	22	16	Clear Sky /Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

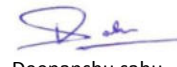
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10.01.2022	11.01.2022	210	130	54	16	12	Clear Sky /Calm
27.01.2022	28.01.2022	238	152	60	18	14	Clear Sky /Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

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}	NO ₂	SO ₂	
03.01.2022	04.01.2022	110	70	36	16	12	Clear Sky /Calm
21.01.2022	22.01.2022	116	74	38	14	10	Clear Sky /Calm
NAAQS, 2009		-	100	60	80	80	

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}	NO ₂	SO ₂	
10.01.2022	11.01.2022	124	64	28	12	10	Clear Sky /Calm
28.01.2022	29.01.2022	132	68	34	10	10	Clear Sky /Lightbreeze
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	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LSOP 4		

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}	
13.01.2022	14.01.2022	314	216	60	Rainy /Calm

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}	
12.01.2022	13.01.2022	360	264	68	Cloudy Sky/Calm



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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)
SAMPLING METHOD	LSOP 5

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	2	10	4	2
11.01.2022	7.62	44	76	BDL
27.01.2022	7.6	38	68	BDL
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: WNKON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	12.01.2022	64.2	63.1
JAN'22	28.01.2022	64.8	63.4
NOISE POLLUTION (REGULATION AND		75	70

COLONY PRAGATI NAGAR: WNPN2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	12.01.2022	44.3	42.4
JAN'22	28.01.2022	44.1	42.2
NOISE POLLUTION (REGULATION AND		55	45

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ENVIRONMENTAL MONITORING REPORT

KUMBARKHANI UG

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JANUARY 2022


Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/45	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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 NORTH	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	KUMBARKHANI UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

PROJECT MANAGER OFFICE WNKUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
09.01.2022	10.01.2022	246	160	56	24	20	Cloudy Sky / Calm
27.01.2022	28.01.2022	260	168	64	26	18	Clear Sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SAM OFFICE/ CANTEEN WNKUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
09.01.2022	10.01.2022	230	140	58	22	16	Cloudy Sky / Calm
27.01.2022	28.01.2022	252	154	66	20	18	Clear Sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

GUEST HOUSE/ COLONY WNKUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
09.01.2022	10.01.2022	116	58	32	16	14	Cloudy Sky / Calm
27.01.2022	28.01.2022	122	62	36	12	10	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	

GHONSA 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	
09.01.2022	10.01.2022	116	66	34	14	12	Cloudy Sky / Calm
27.01.2022	28.01.2022	122	72	38	16	10	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	



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NOISE LEVEL MONITORING DATA

FAN HOUSE: WNKUN1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	10-01-2022	45.7	43.9
JAN'22	29-01-2022	45.8	44.8
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY: WNKUN2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	10-01-2022	45.4	42.8
JAN'22	29-01-2022	45.2	43.9
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

PIMPALGAON OC

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034




JANUARY 2022

Environment Laboratory

CMPDI

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

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/46	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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 NORTH	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	PIMPALGAON OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10.01.2022	11.01.2022	248	170	68	22	14	Clear Sky/ Calm
28.01.2022	29.01.2022	280	178	72	20	16	Cloudy Sky/ Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10.01.2022	11.01.2022	256	148	54	24	18	Clear Sky/ Calm
28.01.2022	29.01.2022	268	158	60	26	20	Cloudy Sky/ Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10.01.2022	11.01.2022	124	64	28	12	10	Clear Sky/ Calm
28.01.2022	29.01.2022	132	68	34	10	10	Cloudy Sky/ Lightbreeze
NAAQS, 2009		-	100	60	80	80	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10.01.2022	11.01.2022	108	58	32	14	10	Clear Sky/ Calm
28.01.2022	29.01.2022	112	66	34	10	10	Cloudy Sky/ Lightbreeze
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
SAMPLE DESCRIPTION	Air sample(Fugitive)
SAMPLING METHOD : LSOP 4	

		WEIGHT BRIDGE		WNOF1	ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)			
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
15.01.2022	16.01.2022	324	218	68	Cloudy Sky/ Calm

		CHP		WNOF2	ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)			
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
15.01.2022	16.01.2022	336	248	72	Cloudy Sky/Calm



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NOISE LEVEL MONITORING DATA

CHP: WNPN1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	12.01.2022	48.7	46.6
JAN'22	28.01.2022	48.6	46.3
NOISE POLLUTION (REGULATION AND		75	70

COLONY PRAGATI NAGAR: WNPN2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	12.01.2022	44.3	42.4
JAN'22	28.01.2022	44.1	42.2
NOISE POLLUTION (REGULATION AND		55	45

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ENVIRONMENTAL MONITORING REPORT

RAJUR UG

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034




JANUARY 2022

Environment Laboratory

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.		RIN/TR/JAN-22/47	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER		GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.		WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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 NORTH	SAMPLING PLAN : LQR 47	
NAME OF PROJECT		RAJUR UG		
SAMPLE DESCRIPTION	Air sample			
SAMPLING METHOD : LSOP 4				

NEAR BANDEWADA INCLINE WNRUA1							
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	
08.01.2022	09.01.2022	288	190	72	20	18	Cloudy Sky / Calm
24.01.2022	25.01.2022	296	194	78	22	14	Clear Sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SAM OFFICE WNRUA2							
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	
08.01.2022	09.01.2022	250	148	66	24	16	Cloudy Sky / Calm
24.01.2022	25.01.2022	256	156	70	26	18	Clear Sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

PIT OFFICE WNRUA3							
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	
08.01.2022	09.01.2022	258	158	60	22	18	Cloudy Sky / Calm
24.01.2022	25.01.2022	266	162	64	24	18	Clear Sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

HUTMENT WNRUA4							
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	
08.01.2022	09.01.2022	108	64	32	12	10	Cloudy Sky / Calm
24.01.2022	25.01.2022	114	66	38	10	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
SAMPLE DESCRIPTION	Air sample(Fugitive)
SAMPLING METHOD : LSOP 4	

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}	
14.01.2022	15.01.2022	316	210	62	Rainy / Calm



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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)
SAMPLING METHOD	LSOP 5

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	2	10	4	2
08.01.2022	7.52	30	48	BDL
24.01.2022	7.23	28	36	BDL
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:		WNRUN1	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	10.01.2022	68.7	66.5
JAN'22	29.01.2022	65.7	64.9
NOISE POLLUTION (REGULATION AND		75	70

COLONY RAJUR:		WNRUN2	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	10.01.2022	45.9	44.6
JAN'22	29.01.2022	45.2	43.8
NOISE POLLUTION (REGULATION AND		55	45

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ENVIRONMENTAL MONITORING REPORT

UKNI DEEP OC

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JANUARY 2022

Environment Laboratory

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/48	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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 NORTH	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	UKNI DEEP		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

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}	NO ₂	SO ₂	
10.01.2022	11.01.2022	224	140	58	18	12	Rainy Sky / Calm
29.01.2022	30.01.2022	258	158	66	22	18	Clear Sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

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}	NO ₂	SO ₂	
10.01.2022	11.01.2022	110	60	28	12	10	Rainy Sky / Calm
29.01.2022	30.01.2022	114	58	32	10	10	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	

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}	NO ₂	SO ₂	
10.01.2022	11.01.2022	104	54	26	10	10	Rainy Sky / Calm
29.01.2022	30.01.2022	110	58	30	12	10	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	

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}	NO ₂	SO ₂	
03.01.2022	04.01.2022	110	70	36	16	12	Clear Sky / Calm
21.01.2022	22.01.2022	116	74	38	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	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LSOP 4		

		WEIGHT BRIDGE		WNUOF1		
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)			ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	SPM	PM ₁₀	PM _{2.5}		
13.01.2022	14.01.2022	336	248	64	Rainy Sky / Calm	

		CHP		WNOF2		
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)			ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	SPM	PM ₁₀	PM _{2.5}		
13.01.2022	14.01.2022	322	228	60	Rainy Sky / Calm	



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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
SAMPLING METHOD	LSOP 5

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	2	10	4	2
10.01.2022	6.82	40	60	BDL
29.01.2022	7.42	42	68	BDL
STANDARDS FOR COAL	5.5 - 9.0	100	250	10

ETP DISCHARGE: WNUOW2				
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
10.01.2022	7.62	38	56	BDL
29.01.2022	7.52	44	72	BDL
STANDARDS FOR COAL	5.5 - 9.0	100	250	10

STP DISCHARGE: WNUOW3		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS (in mg/l)	BOD(in mg/l)
DETECTION LIMIT	10	2
10.01.2022	64	20
29.01.2022	54	16
GENERAL STANDARDS FOR DISCHARGE OF	100	30



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NOISE LEVEL MONITORING DATA

CHP: WNUON1		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	12.01.2022	64.6	63.5
JAN'22	28.01.2022	64.2	63.1
NOISE POLLUTION (REGULATION AND		75	70

BHALAR COLONY: WNUON2		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	12.01.2022	44.4	42.8
JAN'22	28.01.2022	44.6	43.5
NOISE POLLUTION (REGULATION AND		55	45

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ENVIRONMENTAL MONITORING REPORT

WANI RAILWAY SIDING

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034




JANUARY 2022

Environment Laboratory

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REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/49	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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 NORTH	SAMPLING PLAN	LQR 47
NAME OF PROJECT	WANI RAILWAY SIDING		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD	LSOP 4		

NEAR RAILWAY SIDING WNRS1							
DATE(dd:mm:yy) OF SAMPLING		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	
03.01.2022	04.01.2022	256	160	60	18	14	Clear Sky / Calm
04.01.2022	05.01.2022	266	168	64	22	16	Clear Sky / Lightbreeze
11.01.2022	12.01.2022	216	156	56	16	12	Rainy / Lightbreeze
12.01.2022	13.01.2022	232	160	60	18	14	Cloudy Sky / Lightbreeze
21.01.2022	22.01.2022	248	170	68	24	20	Clear Sky / Calm
22.01.2022	23.01.2022	232	164	58	20	18	Clear Sky / Calm
27.01.2022	28.01.2022	274	180	66	22	18	Clear Sky / Calm
28.01.2022	29.01.2022	246	158	64	16	12	Clear Sky / Calm
TLV		600	300	-	120	120	

VITTALWADI WNRS3							
DATE(dd:mm:yy) OF SAMPLING		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	
03.01.2022	04.01.2022	110	58	32	14	10	Clear Sky / Calm
04.01.2022	05.01.2022	116	62	34	10	10	Clear Sky / Calm
11.01.2022	12.01.2022	104	54	30	12	10	Rainy / Calm
12.01.2022	13.01.2022	112	58	34	14	12	Cloudy Sky / Calm
21.01.2022	22.01.2022	118	62	38	16	10	Clear Sky / Calm
22.01.2022	23.01.2022	122	68	40	14	12	Clear Sky / Calm
27.01.2022	28.01.2022	134	74	42	16	12	Clear Sky / Calm
28.01.2022	29.01.2022	130	70	38	14	10	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	

PRAGATI NAGAR WNRS4							
DATE(dd:mm:yy) OF SAMPLING		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	
03.01.2022	04.01.2022	118	64	36	18	14	Clear Sky / Calm
04.01.2022	05.01.2022	120	60	40	16	12	Clear Sky / Calm
11.01.2022	12.01.2022	100	56	32	12	10	Rainy / Calm
12.01.2022	13.01.2022	116	60	36	14	12	Cloudy Sky / Calm
21.01.2022	22.01.2022	124	66	40	16	14	Clear Sky / Calm
22.01.2022	23.01.2022	108	60	34	12	10	Clear Sky / Calm
27.01.2022	28.01.2022	124	66	38	10	10	Clear Sky / Calm
28.01.2022	29.01.2022	128	70	34	14	12	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	



Analysed by



DEEPANSHU SAHU
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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
SAMPLE DESCRIPTION	Air sample(Fugitive)
SAMPLING METHOD	LSOP 4

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}	
13.01.2022	14.01.2022	310	208	56	Rainy / Calm



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NOISE LEVEL MONITORING DATA

MASJID NEAR FARM HOUSE		WNRSN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	12-01-2022	46.6	44.8
JAN'22	28-01-2022	46.2	44.4
NOISE POLLUTION (REGULATION AND CONTROL)		75	70

NEAR INCHARGE OFFICE:		WNRSN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	12-01-2022	67.8	66.2
JAN'22	28-01-2022	67.5	66.3
NOISE POLLUTION (REGULATION AND CONTROL)		75	70

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ENVIRONMENTAL MONITORING REPORT

AMBARA OC

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JANUARY 2022

Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

CMPDI

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

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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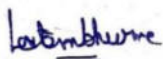
TEST REPORT NO.	RIN/TR/JAN-22/68	DATE OF ISSUE	28.2.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance 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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
		5	5	2	6	10	
10.01.2022	11.01.2022	260	164	36	15	10	Cloudy / Calm
24.01.2022	25.01.2022	248	132	32	13	BDL	Clear Sky / Lightbreeze
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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
		5	5	2	6	10	
10.01.2022	11.01.2022	255	176	39	16	11	Cloudy / Calm
24.01.2022	25.01.2022	268	161	44	15	10	Clear Sky / Lightbreeze
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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
		5	5	2	6	10	
13.01.2022	14.01.2022	124	89	27	9	BDL	Cloudy / Calm
24.01.2022	25.01.2022	115	77	25	10	BDL	Clear Sky / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

AMBARA VILLAGE KMUA4							
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}	NO ₂	SO ₂	
		5	5	2	6	10	
13.01.2022	14.01.2022	120	82	23	8	BDL	Cloudy / Calm
24.01.2022	25.01.2022	133	91	27	10	BDL	Clear Sky / Lightbreeze
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	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LPS 4		

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}	
10.01.2022	11.01.2022	328	218	58	Cloudy/Calm



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

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}	
10.01.2022	11.01.2022	374	278	72	Cloudy/Calm



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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
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: KAOW				
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
10.01.2022	7.66	34	44	BDL
24.01.2022	7.8	32	48	BDL
STANDARDS FOR COAL	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

MANAGER OFFICE: KAON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JAN'22	10.01.2022	52.7	52.5
JAN'22	28.01.2022	53.8	53.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY(MOHAN/MAORI): KMUN2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JAN'22	10.01.2022	43.6	43.4
JAN'22	28.01.2022	45.2	44.9
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

AMBARA UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JANUARY 2022

Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

CMPDI

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

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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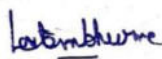
TEST REPORT NO.	RIN/TR/JAN-22/69	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance 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 KAU1							
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}	NO ₂	SO ₂	
10.01.2022	11.01.2022	266	155	31	14	BDL	Cloudy/Lightbreeze
24.01.2022	25.01.2022	257	143	38	13	BDL	Clear/Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

PIT OFFICE- MOHAN KAU2							
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}	NO ₂	SO ₂	
10.01.2022	11.01.2022	255	176	39	16	11	Cloudy/Lightbreeze
24.01.2022	25.01.2022	268	161	44	15	10	Clear/Lightbreeze
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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
13.01.2022	14.01.2022	124	89	27	9	BDL	Cloudy/Lightbreeze
24.01.2022	25.01.2022	115	77	25	10	BDL	Clear/Lightbreeze
NAAQS, 2009		-	100	60	80	80	

AMBARA VILLAGE KMUA4							
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}	NO ₂	SO ₂	
13.01.2022	14.01.2022	120	82	23	8	BDL	Cloudy/Lightbreeze
24.01.2022	25.01.2022	133	91	27	10	BDL	Clear/Lightbreeze
NAAQS, 2009		-	100	60	80	80	



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ENVIRONMENTAL MONITORING REPORT

AREA WORKSHOP

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JANUARY 2022

Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

CMPDI

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/70	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
		5	5	2	6	10	
12.01.2022	13.01.2022	251	165	35	13	BDL	Cloudy / Lightbreeze
28.01.2022	29.01.2022	271	183	41	15	BDL	Cloudy / Lightbreeze
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 PRIMISES:		KAWN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JAN'22	10.01.2022	51.7	51.4
JAN'22	28.01.2022	52.7	52.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

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ENVIRONMENTAL MONITORING REPORT

DAMUA OC

KANHAN AREA 

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



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Environment Laboratory

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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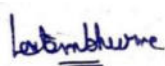
TEST REPORT NO.	RIN/TR/JAN-22/71	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance 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	
10.01.2022	11.01.2022	5	5	2	6	10	Cloudy / Lightbreeze
22.01.2022	23.01.2022	249	155	33	13	BDL	Cloudy / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SAM OFFICE- DAMUA 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	
10.01.2022	11.01.2022	5	5	2	6	10	Cloudy / Lightbreeze
22.01.2022	23.01.2022	259	164	30	15	BDL	Cloudy / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

RESCUE STATION (NEAR INCLINE 24&25) KDOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11.01.2022	12.01.2022	5	5	2	6	10	Cloudy / Lightbreeze
22.01.2022	23.01.2022	260	171	39	16	11	Cloudy / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

NANDORA VILLAGE KDOA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10.01.2022	11.01.2022	5	5	2	6	10	Cloudy / Lightbreeze
22.01.2022	23.01.2022	111	81	28	9	BDL	Cloudy / Lightbreeze
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)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JAN'22	10.01.2022	42.6	44.1
JAN'22	28.01.2022	43.3	43.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

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ENVIRONMENTAL MONITORING REPORT

DAMUA UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JANUARY 2022

Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/72	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10.01.2022	11.01.2022	259	164	30	15	11	Cloudy sky / Lightbreeze
22.01.2022	23.02.2022	266	152	37	14	BDL	Cloudy sky / Lightbreeze
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)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10.01.2022	11.01.2022	260	171	39	16	11	Cloudy sky / Lightbreeze
22.01.2022	23.02.2022	249	161	46	15	10	Cloudy sky / Lightbreeze
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)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10.01.2022	11.01.2022	111	81	28	9	BDL	Cloudy sky / Lightbreeze
22.01.2022	23.02.2022	123	88	31	10	BDL	Cloudy sky / Lightbreeze
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	NIGHT TIME
		20	20
JAN'22	10.01.2022	43.6	43.3
JAN'22	28.01.2022	42.9	42.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

GHORAWARI OC

KANHAN AREA 

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JANUARY 2022


Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

CMPDI

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

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/73	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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	
12.01.2022	13.01.2022	268	183	42	15	11	Cloudy / Lightbreeze
23.01.2022	24.01.2022	247	172	37	14	BDL	Cloudy / Lightbreeze
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	
11.01.2022	12.01.2022	257	163	30	14	BDL	Cloudy / Lightbreeze
23.01.2022	24.01.2022	271	169	39	16	BDL	Cloudy / Lightbreeze
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	
11.01.2022	12.01.2022	121	84	29	10	BDL	Cloudy / Lightbreeze
24.01.2022	25.01.2022	113	72	24	9	BDL	Cloudy / Lightbreeze
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	
12.01.2022	13.01.2022	129	75	25	9	BDL	Cloudy / Lightbreeze
23.01.2022	24.01.2022	119	70	27	8	BDL	Cloudy / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

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Analysed by

Deepanshu sahu

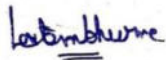
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FUGITIVE DUST MONITORING

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 : LPS 4		

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}	
12.01.2022	13.01.2022	331	225	60	Cloudy/Light Breeze



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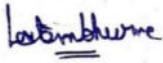


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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: KGOW				
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
09.01.2022	7.95	26	32	BDL
23.01.2022	8.12	28	36	BDL
STANDARDS FOR COAL	5.5 - 9.0	100	250	10



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NOISE LEVEL MONITORING DATA

MANAGER OFFICE:		KGON1	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	10.01.2022	46.7	44.7
JAN'22	28.01.2022	47.1	45.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY(JHARNA):		KGON2	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	10.01.2022	42.7	42.6
JAN'22	28.01.2022	43.6	43.3
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

JHARNA/ GHORAWARI UG

KANHAN AREA 

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JANUARY 2022


Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

CMPDI

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

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/74	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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- JHARNA UG 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	
12.01.2022	13.01.2022	243	151	34	15	BDL	Cloudy / Lightbreeze
23.01.2022	24.01.2022	261	149	40	16	11	Cloudy / Lightbreeze
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	
11.01.2022	12.01.2022	257	163	30	14	BDL	Cloudy / Lightbreeze
23.01.2022	24.01.2022	271	169	39	16	BDL	Cloudy / Lightbreeze
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	
11.01.2022	12.01.2022	121	84	29	10	BDL	Cloudy / Lightbreeze
24.01.2022	25.01.2022	113	72	24	9	BDL	Cloudy / Lightbreeze
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	
12.01.2022	13.01.2022	129	75	25	9	BDL	Cloudy / Lightbreeze
23.01.2022	24.01.2022	119	70	27	8	BDL	Cloudy / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

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Analysed by

Deepanshu sahu

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NOISE LEVEL MONITORING DATA

FAN HOUSE: KJUN1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	10.01.2022	43.7	43.6
JAN'22	28.01.2022	44.8	44.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY: KJUN1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	10.01.2022	42.7	42.6
JAN'22	28.01.2022	43.6	43.3
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

MOHAN/ MAORI UG

KANHAN AREA 

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JANUARY 2022

Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/75	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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	
10.01.2022	11.01.2022	266	155	31	14	BDL	Cloudy /Lightbreeze
24.01.2022	25.01.2022	257	143	38	13	BDL	Cloudy /Lightbreeze
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	
10.01.2022	11.01.2022	255	176	39	16	11	Cloudy /Lightbreeze
24.01.2022	25.01.2022	268	161	44	15	10	Cloudy /Lightbreeze
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	
13.01.2022	14.01.2022	124	89	27	9	BDL	Cloudy /Lightbreeze
24.01.2022	25.01.2022	115	77	25	10	BDL	Cloudy /Lightbreeze
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	
13.01.2022	14.01.2022	120	82	23	8	BDL	Cloudy /Lightbreeze
24.01.2022	25.01.2022	133	91	27	10	BDL	Cloudy /Lightbreeze
NAAQS, 2009		-	100	60	80	80	

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Deepanshu

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NOISE LEVEL MONITORING DATA

FAN HOUSE:		KMUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
			20
JAN'22	10.01.2022	69.7	69.6
JAN'22	28.01.2022	70.8	70.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY(MOHAN MAORI):		KMUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
			20
JAN'22	10.01.2022	43.6	43.4
JAN'22	28.01.2022	45.2	44.9
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

NANDAN UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JANUARY 2022


Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-21/76	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
09.01.2022	10.01.2022	259	164	30	15	11	Cloudy / Lightbreeze
27.01.2022	28.01.2022	266	152	37	14	BDL	Cloudy / Lightbreeze
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)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
09.01.2022	10.01.2022	270	187	36	16	10	Cloudy / Lightbreeze
27.01.2022	28.01.2022	258	150	29	14	11	Cloudy / Lightbreeze
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)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
10.01.2022	11.01.2022	110	73	21	8	BDL	Cloudy / Lightbreeze
24.01.2022	25.01.2022	123	84	26	9	BDL	Cloudy / Lightbreeze
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	
10.01.2022	11.01.2022	127	89	26	9	BDL	Cloudy / Lightbreeze
28.01.2022	29.01.2022	117	74	22	8	BDL	Cloudy / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

Deepanshu

Analysed by

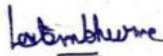
Deepanshu sahu

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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
11.01.2022	7.8	22	32	BDL
25.01.2022	8.16	26	40	BDL
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	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	10.01.2022	70.6	70.4
JAN'22	28.01.2022	71.7	71.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY: KNUN2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	10.01.2022	43.5	42.7
JAN'22	28.01.2022	44.7	44.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

NANDAN WASHERY

KANHAN AREA 

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JANUARY 2022


Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/77	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
09.01.2022	10.01.2022	263	179	41	15	BDL	Cloudy / Lightbreeze
27.01.2022	28.01.2022	249	132	33	13	BDL	Cloudy / Lightbreeze
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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
09.01.2022	10.01.2022	259	164	30	15	11	Cloudy / Lightbreeze
27.01.2022	28.01.2022	266	152	37	14	BDL	Cloudy / Lightbreeze
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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
09.01.2022	10.01.2022	131	79	22	8	BDL	Cloudy / Lightbreeze
27.01.2022	28.01.2022	121	74	23	9	BDL	Cloudy / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

NANDAN WATER FILTER PLANT KNWA4							
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}	NO ₂	SO ₂	
10.01.2022	11.01.2022	127	89	26	9	BDL	Cloudy / Lightbreeze
28.01.2022	29.01.2022	117	74	22	8	BDL	Cloudy / Lightbreeze
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	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	10.01.2022	44.7	43.7
JAN'22	28.01.2022	45.1	44.8
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY(NANDAN WASHERY): KNWN2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	10.01.2022	43.6	43.4
JAN'22	28.01.2022	44.4	44.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

TANDSI UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JANUARY 2022


Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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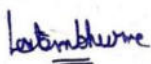
TEST REPORT NO.	RIN/TR/JAN-22/78	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance 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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
08.01.2022	09.01.2022	240	147	32	15	11	Cloudy / Lightbreeze
21.01.2022	22.01.2022	265	151	38	14	10	Cloudy / Lightbreeze
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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
08.01.2022	09.01.2022	257	162	32	16	11	Cloudy / Lightbreeze
21.01.2022	22.01.2022	241	153	39	15	BDL	Cloudy / Lightbreeze
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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
08.01.2022	09.01.2022	120	88	26	8	BDL	Cloudy / Lightbreeze
21.01.2022	22.01.2022	133	93	29	8	BDL	Cloudy / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

JET HOSTEL KTUA4							
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}	NO ₂	SO ₂	
08.01.2022	09.01.2022	108	78	25	9	BDL	Cloudy / Lightbreeze
21.01.2022	22.01.2022	115	84	27	8	BDL	Cloudy / Lightbreeze
NAAQS, 2009		-	100	60	80	80	



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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
06.01.2022	7.9	36	40	BDL
21.01.2022	8.1	28	32	BDL
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)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JAN'22	08.01.2022	72.5	72.6
JAN'22	21.01.2022	73.4	73.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY(TANDSI):		KTUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JAN'22	08.01.2022	43.6	43.4
JAN'22	21.01.2022	43.9	43.6
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

BARKUHI OC

PENCH AREA 2

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JANUARY 2022


Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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Environment Laboratory CMPDI RI-IV, NAGPUR		Test Report			
TEST REPORT NO.		RIN/TR/JAN-22/55	DATE OF ISSUE		28.02.2022
NAME OF CUSTOMER		GM(ENV.), WCL(HQ), NAGPUR			
CUSTOMER LETTER REFERENCE NO.		WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021			
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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		BARKUHI OC			
SAMPLE DESCRIPTION		Air sample			
SAMPLING METHOD : LSOP 4					

MANAGER OFFICE PBOA1							
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}	NO ₂	SO ₂	
11.01.2022	12.01.2022	272	176	56	22	< 10	Cloudy / Calm
23.01.2022	24.01.2022	296	182	60	21	< 10	Clear / Lightbreeze
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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11.01.2022	12.01.2022	264	162	54	21	< 10	Cloudy / Calm
23.01.2022	24.01.2022	292	188	60	20	< 10	Clear / Lightbreeze
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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11.01.2022	12.01.2022	258	152	52	20	< 10	Cloudy / Calm
24.01.2022	25.01.2022	288	186	58	19	< 10	Clear / Lightbreeze
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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11.01.2022	12.01.2022	136	86	36	14	< 10	Cloudy / Calm
23.01.2022	24.01.2022	142	98	40	16	< 10	Clear / Lightbreeze
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
SAMPLE DESCRIPTION	Air sample(Fugitive)
SAMPLING METHOD : LPS 4	

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}	
10.01.2022	11.01.2022	362	244	68	Cloudy/Calm



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NOISE LEVEL MONITORING DATA

NEAR BARKUI HOSPITAL:		PBON1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JAN'22	12.01.2022	44.6	43.8
JAN'22	24.01.2022	45.8	42.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

CHANDAMETA WORKSHOP

PENCH AREA 

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JANUARY 2022

Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO

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

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/56	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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		

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11.01.2022	12.01.2022	258	152	52	20	< 10	CLOUDY / CALM
24.01.2022	25.01.2022	288	186	58	19	< 10	CLEAR / LIGHTBREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH 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
JAN'22	12.01.2022	48.7	47.9
JAN'22	24.01.2022	49.6	47.9
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

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ENVIRONMENTAL MONITORING REPORT

CHINDA OC

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JANUARY 2022


Environment Laboratory

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-21/57	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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			

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
09.01.2022	10.01.2022	264	168	54	22	< 10	CLOUDY / CALM
23.01.2022	24.01.2022	292	186	58	21	< 10	CLEAR/ LIGHTBREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
09.01.2022	10.01.2022	254	162	56	22	< 10	CLOUDY / CALM
22.01.2022	23.01.2022	286	184	60	21	< 10	CLEAR/ LIGHTBREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
09.01.2022	10.01.2022	136	78	38	14	< 10	CLOUDY / CALM
22.01.2022	23.01.2022	154	96	42	16	< 10	CLEAR/ LIGHTBREEZE
NAAQS, 2009		-	100	60	80	80	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
08.01.2022	09.01.2022	142	74	34	14	< 10	CLOUDY / CALM
22.01.2022	23.01.2022	156	96	40	16	< 10	CLEAR/ LIGHTBREEZE
NAAQS, 2009		-	100	60	80	80	



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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		ANALYSIS RESULTS		
DATE OF SAMPLE COLLECTION	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
09.01.2022	7.42	44	32	< 2
23.01.2022	7.74	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

NEAR MANAGER OFFICE:		PCON1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	12.01.2022	53.8	52.6
JAN'22	24.01.2022	56.7	55.2
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
JAN'22	12.01.2022	43.5	42.8
JAN'22	24.01.2022	46.2	45.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

GANPATI UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JANUARY 2022


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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/58	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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	
03.01.2022	04.01.2022	282	174	54	22	< 10	CLEAR/ CALM
17.01.2022	18.01.2022	298	198	58	21	< 10	CLEAR/ LIGHTBREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH 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	
03.01.2022	04.01.2022	288	196	58	21	< 10	CLEAR/ CALM
17.01.2022	18.01.2022	282	182	54	20	< 10	CLEAR/ LIGHTBREEZE
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	
03.01.2022	04.01.2022	148	96	41	16	< 10	CLEAR/ CALM
17.01.2022	18.01.2022	144	82	37	15	< 10	CLEAR/ LIGHTBREEZE
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	
03.01.2022	04.01.2022	147	83	40	16	< 10	CLEAR/ CALM
17.01.2022	18.01.2022	154	94	44	17	< 10	CLEAR/ LIGHTBREEZE
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
SAMPLE DESCRIPTION	Air sample(Fugitive)
SAMPLING METHOD : LPS 4	

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}	
12.01.2022	13.01.2022	344	238	62	Cloudy/Calm

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}	
12.01.2022	13.01.2022	374	258	64	Cloudy/Calm



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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
JAN'22	12.01.2022	46.5	45.5
JAN'22	24.01.2022	69.1	68.2
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
JAN'22	12.01.2022	43.8	42.9
JAN'22	24.01.2022	43.2	42.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

JAMUNIA UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JANUARY 2022

Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

CMPDI

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

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/59	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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			

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
05.01.2022	06.01.2022	294	197	57	20	< 10	CLEAR/ CALM
19.01.2022	20.01.2022	278	183	54	19	< 10	CLEAR/ LIGHTBREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
05.01.2022	06.01.2022	292	188	54	22	< 10	CLEAR/ CALM
19.01.2022	20.01.2022	261	172	58	21	< 10	CLEAR/ LIGHTBREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
05.01.2022	06.01.2022	148	88	40	16	< 10	CLEAR/ CALM
19.01.2022	20.01.2022	135	92	42	15	< 10	CLEAR/ LIGHTBREEZE
NAAQS, 2009		-	100	60	80	80	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
04.01.2022	05.01.2022	146	91	40	16	< 10	CLEAR/ CALM
18.01.2022	19.01.2022	136	83	36	15	< 10	CLEAR/ LIGHTBREEZE
NAAQS, 2009		-	100	60	80	80	



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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: PJUW1				
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
05.01.2022	7.98	42	36	< 2
19.01.2022	7.92	48	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:		PJUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JAN'22	12.01.2022	46.5	45.7
JAN'22	24.01.2022	56.1	55
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

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ENVIRONMENTAL MONITORING REPORT

MAHADEOPURI UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JANUARY 2022


Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/60	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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			

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
03.01.2022	04.01.2022	288	196	58	21	< 10	CLEAR/ CALM
17.01.2022	18.01.2022	282	182	54	20	< 10	CLEAR/ LIGHTBREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH September 2000		600	300	-	120	120	


DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
03.01.2022	04.01.2022	282	174	54	22	< 10	CLEAR/ CALM
17.01.2022	18.01.2022	298	198	58	21	< 10	CLEAR/ LIGHTBREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH September 2000		600	300	-	120	120	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
03.01.2022	04.01.2022	147	88	40	16	< 10	CLEAR/ CALM
17.01.2022	18.01.2022	154	94	44	17	< 10	CLEAR/ LIGHTBREEZE
NAAQS, 2009		-	100	60	80	80	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
03.01.2022	04.01.2022	148	96	41	16	< 10	CLEAR/ CALM
17.01.2022	18.01.2022	144	82	37	15	< 10	CLEAR/ LIGHTBREEZE
NAAQS, 2009		-	100	60	80	80	



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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
12.01.2022	7.34	42	36	< 2
17.01.2022	7.48	48	44	< 2
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	
12.01.2022	13.01.2022	364	228	66	Clear Sky/ Calm



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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
JAN'22	12.01.2022	69.5	68.9
JAN'22	24.01.2022	65.4	64.3
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
JAN'22	12.01.2022	44.6	43.7
JAN'22	24.01.2022	45.5	42.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

NEHARIA UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JANUARY 2022


Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

CMPDI

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

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	
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TEST REPORT NO.	RIN/TR/JAN-22/61	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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			


DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
04.01.2022	05.01.2022	274	192	58	21	< 10	CLEAR/ CALM
18.01.2022	19.01.2022	258	182	54	20	< 10	CLEAR/ CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
04.01.2022	05.01.2022	292	193	62	23	< 10	CLEAR/ CALM
18.01.2022	19.01.2022	281	184	58	22	< 10	CLEAR/ CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
04.01.2022	05.01.2022	146	97	40	16	< 10	CLEAR/ CALM
18.01.2022	19.01.2022	154	92	36	14	< 10	CLEAR/ CALM
NAAQS, 2009		-	100	60	80	80	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
04.01.2022	05.01.2022	146	91	40	16	< 10	CLEAR/ CALM
18.01.2022	19.01.2022	136	83	36	15	< 10	CLEAR/ CALM
NAAQS, 2009		-	100	60	80	80	


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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
04.01.2022	7.64	38	32	< 2
18.01.2022	7.84	46	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:		PNUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	12.01.2022	68.9	67.9
JAN'22	24.01.2022	63.9	62.1
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
JAN'22	12.01.2022	44.5	43.7
JAN'22	24.01.2022	44	43.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

NEW SETHIA OC

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JANUARY 2022


Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/62	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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			

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
08.01.2022	09.01.2022	278	168	54	20	< 10	CLEAR/ CALM
22.01.2022	23.01.2022	294	187	58	21	BDL	CLEAR/ CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH September 2000		600	300	-	120	120	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
09.01.2022	10.01.2022	264	168	54	22	< 10	CLOUDY / WINDY
24.01.2022	20-09-1900	292	186	58	21	< 10	CLEAR/ LIGHTBREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH September 2000		600	300	-	120	120	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
09.01.2022	10.01.2022	136	78	38	14	< 10	CLOUDY / CALM
22.01.2022	23.01.2022	154	96	42	16	< 10	CLEAR/ LIGHTBREEZE
NAAQS, 2009		-	100	60	80	80	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
08.01.2022	09.01.2022	142	74	34	14	< 10	CLOUDY / WINDY
22.01.2022	23.01.2022	156	96	40	16	< 10	CLEAR/ LIGHTBREEZE
NAAQS, 2009		-	100	60	80	80	



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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		ANALYSIS RESULTS		
DATE OF SAMPLE COLLECTION	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
08.01.2022	7.46	50	44	< 2
22.01.2022	7.82	46	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)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JAN'22	12.01.2022	52.7	51.9
JAN'22	24.01.2022	58.2	56.3
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY CHINDA:		PCON2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JAN'22	12.01.2022	43.5	42.8
JAN'22	24.01.2022	46.2	45.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

SHIVPURI OC

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JANUARY 2022

Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

CMPDI

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

AN ISO 9001:2015 COMPANY

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/63	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-1/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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			

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}	NO ₂	SO ₂	
07.01.2022	08.01.2022	271	166	56	20	< 10	CLEAR/ CALM
21.01.2022	22.01.2022	282	184	58	22	< 10	CLEAR/ LIGHTBREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

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}	NO ₂	SO ₂	
07.01.2022	08.01.2022	282	174	54	20	< 10	CLEAR/ CALM
21.01.2022	22.01.2022	274	188	56	21	< 10	CLEAR/ LIGHTBREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

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}	NO ₂	SO ₂	
07.01.2022	08.01.2022	134	82	38	15	< 10	CLEAR/ CALM
21.01.2022	22.01.2022	128	78	36	14	< 10	CLEAR/ LIGHTBREEZE
NAAQS, 2009		-	100	60	80	80	

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}	NO ₂	SO ₂	
09.01.2022	10.01.2022	136	78	38	14	< 10	CLOUDY/ CALM
22.01.2022	23.01.2022	154	96	42	16	< 10	CLEAR/ LIGHTBREEZE
NAAQS, 2009		-	100	60	80	80	



Analysed by


Deepanshu sahu
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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	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LPS 4		

DATE(dd:mm:yy) OF SAMPLING		WEIGHING BRIDGE UUOF1			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)			
		SPM	PM ₁₀	PM _{2.5}	
08.01.2022	09.01.2022	5 348	5 242	2 68	Cloudy/ Windy



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NOISE LEVEL MONITORING DATA

NEAR MANAGER OFFICE:		PSO1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JAN'22	12.01.2022	54.6	53.7
JAN'22	24.01.2022	54.8	52.9
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

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ENVIRONMENTAL MONITORING REPORT

THESGORA MATHANI UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JANUARY 2022


Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

CMPDI

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

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-21/64	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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			

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}	NO ₂	SO ₂	
06.01.2022	07.01.2022	136	82	34	15	< 10	CLEAR/ WINDY
20.01.2022	21.01.2022	148	88	38	16	< 10	CLEAR/ LIGHTBREEZE
NAAQS, 2009		-	100	60	80	80	

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}	NO ₂	SO ₂	
06.01.2022	07.01.2022	270	164	52	22	< 10	CLEAR/ WINDY
20.01.2022	21.01.2022	292	188	56	20	< 10	CLEAR/ LIGHTBREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

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}	NO ₂	SO ₂	
06.01.2022	07.01.2022	266	164	52	22	< 10	CLEAR/ WINDY
20.01.2022	21.01.2022	288	182	58	21	< 10	CLEAR/ LIGHTBREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

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}	NO ₂	SO ₂	
06.01.2022	07.01.2022	136	84	34	17	< 10	CLEAR/ WINDY
20.01.2022	21.01.2022	148	96	38	16	< 10	CLEAR/ LIGHTBREEZE
NAAQS, 2009		-	100	60	80	80	



Analysed by


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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
06.01.2022	7.62	48	36	< 2
20.01.2022	7.42	54	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-MATHANI: PTUN1		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	12.01.2022	69.8	68.9
JAN'22	24.01.2022	69.9	68.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY-THESGORA: PTUN2		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	12.01.2022	44.7	43.8
JAN'22	24.01.2022	42	41.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

URDHAN OC

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JANUARY 2022


Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

CMPDI

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

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/65	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
05.01.2022	06.01.2022	287	172	54	21	< 10	CLEAR / CALM
19.01.2022	20.01.2022	264	164	50	20	< 10	CLEAR/ LIGHTBREEZE
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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
05.01.2022	06.01.2022	156	92	42	16	< 10	CLEAR / CALM
19.01.2022	20.01.2022	142	82	38	15	< 10	CLEAR/ LIGHTBREEZE
NAAQS, 2009		-	100	60	80	80	

NEHARIA VILLAGE PNUA3							
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}	NO ₂	SO ₂	
04.01.2022	05.01.2022	146	97	40	16	< 10	CLEAR / CALM
18.01.2022	19.01.2022	154	92	36	14	< 10	CLEAR / CALM
NAAQS, 2009		-	100	60	80	80	

BOKAI TOWNSHIP PNUA4							
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}	NO ₂	SO ₂	
04.01.2022	05.01.2022	146	91	40	16	< 10	CLEAR / CALM
18.01.2022	19.01.2022	136	83	36	15	< 10	CLEAR / CALM
NAAQS, 2009		-	100	60	80	80	



Analysed by



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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: PUOW1				
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
05.01.2022	7.94	48	40	< 2
19.01.2022	7.76	52	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

MANAGER OFFICE: PUON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	12.01.2022	55.6	54.8
JAN'22	24.01.2022	54.2	53.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

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ENVIRONMENTAL MONITORING REPORT

VISHNUPURI-II UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JANUARY 2022

Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

CMPDI

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

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/67	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
07.01.2022	08.01.2022	292	192	56	20	< 10	CLEAR / WINDY
21.01.2022	22.01.2022	264	170	52	19	< 10	CLEAR / LIGHTBREEZE
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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
07.01.2022	08.01.2022	282	174	54	20	< 10	CLEAR / WINDY
21.01.2022	22.01.2022	274	188	56	21	< 10	CLEAR / LIGHTBREEZE
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 $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
07.01.2022	08.01.2022	134	82	38	15	< 10	CLEAR / WINDY
21.01.2022	22.01.2022	128	78	36	14	< 10	CLEAR / LIGHTBREEZE
NAAQS, 2009		-	100	60	80	80	

CHINDA VILLAGE PCOA3							
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}	NO ₂	SO ₂	
09.01.2022	10.01.2022	142	74	34	14	< 10	CLEAR / WINDY
22.01.2022	23.01.2022	156	96	40	16	< 10	CLEAR / LIGHTBREEZE
NAAQS, 2009		-	100	60	80	80	



Analysed by


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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
07.01.2022	7.34	46	40	< 2
21.01.2022	7.98	42	36	< 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 UG-II:		PV2UN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JAN'22	12.01.2022	69.7	68.9
JAN'22	24.01.2022	63.2	60.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY(VISHNUPURI-I):		PV1UN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JAN'22	12.01.2022	44.7	43.8
JAN'22	24.01.2022	44.5	43.8
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

VISHNUPURI-I UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JANUARY 2022


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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/66	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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	
07.01.2022	08.01.2022	292	192	56	20	< 10	CLEAR/ WINDY
21.01.2022	22.01.2022	264	170	52	19	< 10	CLEAR/ LIGHTBREEZE
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	
07.01.2022	08.01.2022	282	174	54	20	< 10	CLEAR/ WINDY
21.01.2022	22.01.2022	274	188	56	21	< 10	CLEAR/ LIGHTBREEZE
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	
07.01.2022	08.01.2022	134	82	38	15	< 10	CLEAR/ WINDY
21.01.2022	22.01.2022	128	78	36	14	< 10	CLEAR/ LIGHTBREEZE
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	
09.01.2022	10.01.2022	136	78	38	14	< 10	CLEAR/ WINDY
22.01.2022	23.01.2022	154	96	42	16	< 10	CLEAR/ LIGHTBREEZE
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	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LPS 4		

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}	
08.01.2022	09.01.2022	368	242	62	CLOUDY / WINDY



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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
JAN'22	12.01.2022	49.6	48.8
JAN'22	24.01.2022	49.1	48.2
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
JAN'22	12.01.2022	44.7	43.8
JAN'22	24.01.2022	44.5	43.8
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

CHATTARPUR I & II UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JANUARY 2022


Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

CMPDI

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

AN ISO 9001:2015 COMPANY

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/79	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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	
06.01.2022	07.01.2022	258	164	35	14	BDL	Clear/Lightbreeze
19.01.2022	20.01.2022	281	183	43	15	BDL	Cloudy/Lightbreeze
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	
06.01.2022	07.01.2022	239	149	30	15	13	Clear/Lightbreeze
19.01.2022	20.01.2022	253	157	38	13	BDL	Cloudy/Lightbreeze
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	
06.01.2022	07.01.2022	263	172	38	14	BDL	Clear/Lightbreeze
19.01.2022	20.01.2022	247	152	33	13	BDL	Cloudy/Lightbreeze
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	
06.01.2022	07.01.2022	127	83	26	8	BDL	Clear/Lightbreeze
19.01.2022	20.01.2022	117	77	22	9	BDL	Cloudy/Lightbreeze
NAAQS, 2009		-	100	60	80	80	

labindhume

Analysed by

Deepanshu sahu

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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	

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}	
06.01.2022	07.01.2022	340	222	62	CLEAR/L.BREEZE

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}	
06.01.2022	07.01.2022	350	231	68	CLEAR/L.BREEZE



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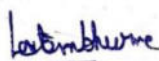
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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C
SAMPLING METHOD	LSOP 5

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
12.01.2022	8.5	28	40	BDL
28.01.2022	8.15	22	32	BDL
STANDARDS FOR COAL	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
12.01.2022	8.41	24	36	BDL
28.01.2022	8.28	30	44	BDL
STANDARDS FOR COAL	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	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	05.01.2022	72.6	72.5
JAN'22	19.01.2022	73.2	72.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

FAN HOUSE-II UG:		PKCUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	05.01.2022	72.6	71.7
JAN'22	19.01.2022	71.9	71.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY:		PKCUN3	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	05.01.2022	43.7	43.4
JAN'22	19.01.2022	45.1	44.8
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

SARNI UG

PATHAKHERA AREA 

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JANUARY 2022


Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

CMPDI

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

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/80	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance		
NAME OF AREA	PATHARKHERA	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	SARNI UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

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}	NO ₂	SO ₂	
03.01.2022	04.01.2022	259	167	42	15	10	Cloudy/ Lightbreeze
17.01.2022	18.01.2022	271	184	46	14	11	Cloudy/ Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

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}	NO ₂	SO ₂	
03.01.2022	04.01.2022	240	142	41	14	10	Cloudy/ Lightbreeze
17.01.2022	18.01.2022	262	171	43	13	BDL	Cloudy/ Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

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}	NO ₂	SO ₂	
03.01.2022	04.01.2022	135	92	28	9	BDL	Cloudy/ Lightbreeze
17.01.2022	18.01.2022	123	81	24	8	BDL	Cloudy/ Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		-	100	60	80	80	

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}	NO ₂	SO ₂	
03.01.2022	04.01.2022	115	79	26	9	BDL	Cloudy/ Lightbreeze
17.01.2022	18.01.2022	127	84	29	8	BDL	Cloudy/ Lightbreeze
NAAQS, 2009		-	100	60	80	80	

Leetambhurne

Analysed by

Deepanshu

Deepanshu sahu
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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	
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)
		SPM	PM ₁₀	PM _{2.5}	
FROM	TO	5	5	2	
05.01.2022	06.01.2022	372	259	72	CLOUDY/L.BREEZE

Leetambhurne

Deepanshu


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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
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
03.01.2022	7.87	24	36	BDL
17.01.2022	7.9	28	40	BDL
STANDARDS FOR COAL	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)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JAN'22	05.01.2022	72.7	72.1
JAN'22	19.01.2022	73.7	73.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY(SARNI):		PKSUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JAN'22	05.01.2022	43.5	42.9
JAN'22	19.01.2022	43.2	42.6
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

SHOBHAPUR UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JANUARY 2022


Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

CMPDI

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

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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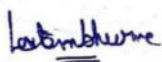
TEST REPORT NO.	RIN/TR/JAN-22/81	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance 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			

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}	NO ₂	SO ₂	
04.01.2022	05.01.2022	260	168	34	13	BDL	Cloudy / Lightbreeze
18.01.2022	19.01.2022	243	132	30	14	BDL	Cloudy / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

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}	NO ₂	SO ₂	
04.01.2022	05.01.2022	264	176	38	14	BDL	Cloudy / Lightbreeze
18.01.2022	19.01.2022	252	161	41	15	BDL	Cloudy / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

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}	NO ₂	SO ₂	
04.01.2022	05.01.2022	101	70	23	8	BDL	Cloudy / Lightbreeze
18.01.2022	19.01.2022	123	84	27	9	BDL	Cloudy / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

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}	NO ₂	SO ₂	
04.01.2022	05.01.2022	109	83	27	9	BDL	Cloudy / Lightbreeze
18.01.2022	19.01.2022	127	92	32	8	BDL	Cloudy / Lightbreeze
NAAQS, 2009		-	100	60	80	80	



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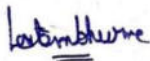
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FUGITIVE DUST MONITORING

TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017) & PM2.5: USEPA Quality Assurance	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LSOP 4		

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}	
05.01.2022	06.01.2022	359	247	66	Cloudy / Lightbreeze



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NOISE LEVEL MONITORING DATA

FAN HOUSE:		PKSUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	05.01.2022	71.7	70.7
JAN'22	19.01.2022	72.7	72.3
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY(SHOBHAPUR):		PKSUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIHT TIME
	DETECTION LIMIT	20	20
JAN'22	05.01.2022	43.6	43.4
JAN'22	19.01.2022	44.2	43.8
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

TAWA-II UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JANUARY 2022

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/82	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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	
07.01.2022	08.01.2022	241	149	31	13	BDL	Clear / Lightbreeze
20.01.2022	21.01.2022	267	160	38	14	BDL	Cloudy / Lightbreeze
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	
07.01.2022	08.01.2022	249	155	39	14	BDL	Clear / Lightbreeze
20.01.2022	21.01.2022	260	164	44	15	11	Cloudy / Lightbreeze
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	
07.01.2022	08.01.2022	112	72	25	9	BDL	Clear / Lightbreeze
20.01.2022	21.01.2022	127	87	29	10	BDL	Cloudy / Lightbreeze
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	
07.01.2022	08.01.2022	130	80	24	9	BDL	Clear / Lightbreeze
20.01.2022	21.01.2022	126	74	29	10	BDL	Cloudy / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

Latimkhurme

Analysed by

Deepanshu

Deepanshu sahu
Authorised Signatory

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

NEAR COAL STOCK BUNKER		PKTII			
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}	
20.01.2022	21.01.2022	383	269	79	Cloudy / Lightbreeze

Laximbhume

Deepanshu sahu

Analysed by

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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
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
07.01.2022	8.21	22	28	BDL
21.01.2022	7.8	26	32	BDL
STANDARDS FOR COAL	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)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JAN'22	05.01.2022	71.7	71.1
JAN'22	19.01.2022	71.9	71.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

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ENVIRONMENTAL MONITORING REPORT

TAWA UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



JANUARY 2022

Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

CMPDI

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

AN ISO 9001:2015 COMPANY

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-22/83	DATE OF ISSUE	28.02.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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	
07.01.2022	08.01.2022	249	155	39	14	BDL	Clear / Lightbreeze
20.01.2022	21.01.2022	260	164	44	15	11	Cloudy / Lightbreeze
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	
07.01.2022	08.01.2022	241	149	31	13	BDL	Clear / Lightbreeze
20.01.2022	21.01.2022	267	160	38	14	BDL	Cloudy / Lightbreeze
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	
07.01.2022	08.01.2022	112	72	25	9	BDL	Clear / Lightbreeze
20.01.2022	21.01.2022	127	87	29	10	BDL	Cloudy / Lightbreeze
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	
07.01.2022	08.01.2022	130	80	24	9	BDL	Clear / Lightbreeze
20.01.2022	21.01.2022	126	74	29	10	BDL	Cloudy / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

latimkhur

Analysed by

Deepanshu sahu

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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
07.01.2022	8.17	26	32	BDL
21.01.2022	8.12	24	36	BDL
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	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	05.01.2022	72.6	72.4
JAN'22	19.01.2022	72.9	72.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY(TAWA): PKTUN2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'22	05.01.2022	43.6	43.2
JAN'22	19.01.2022	43.1	42.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45