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## ENVIRONMENTAL MONITORING REPORT

# BALLARPUR OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



JULY 2023

Environment Laboratory  
NABL Accredited vide Cert. No. TC-7102  
CMPDI  
REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>		<b>Test Report</b>		 TC-7102	
TEST REPORT NO.	RIN/TR/JULY-23/41	DATE OF ISSUE	31-08-2023		
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR				
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)				
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47		
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:			16-07-23 TO 14-08-23	

MANAGER OFFICE-BALLARPUR UG BBOA1							
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 <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
14-07-2023	15-07-2023	240	152	46	12	BDL	Cloudy /Light Breeze
25-07-2023	26-07-2023	210	129	34	10	BDL	Cloudy /Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH OCTOBER 2000		<b>600</b>	<b>300</b>	-	<b>120</b>	<b>120</b>	

SUBSTATION BBOA2							
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 <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
14-07-2023	15-07-2023	210	126	35	10	BDL	Cloudy /Light Breeze
23-07-2023	24-07-2023	210	132	39	12	BDL	Cloudy /Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH OCTOBER 2000		<b>600</b>	<b>300</b>	-	<b>120</b>	<b>120</b>	

PREMISES OF SUB AREA OFFICE BBOA3							
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 <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
13-07-2023	14-07-2023	239	162	46	14	BDL	Cloudy /Light Breeze
24-07-2023	25-07-2023	216	116	45	10	BDL	Cloudy /Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH OCTOBER 2000		<b>600</b>	<b>300</b>	-	<b>120</b>	<b>120</b>	

FILTER PLANT COLONY BBOA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>		
14-07-2023	15-07-2023	52	26	8	BDL	Cloudy /Light Breeze	
23-07-2023	24-07-2023	56	29	10	BDL	Cloudy /Light Breeze	
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>		



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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23

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
14-07-2023	7.59	32	44	BDL
29-07-2023	7.65	36	52	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

CHP:BBUN1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	14-07-2023	58.9	57.5
JULY'23	28-07-2023	59.5	58.8
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY BALLARPUR UG:BBUN2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	14-07-2023	43.5	42.6
JULY'23	28-07-2023	42.9	41.7
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



Amol Kamble  
Reviewed by



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## ENVIRONMENTAL MONITORING REPORT

### BALLARPUR UG

BALLARPUR AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/42	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

MANAGER OFFICE- BALLARPUR UG		BBOA1					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 <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
14-07-2023	15-07-2023	240	152	46	12	BDL	Cloudy /Light Breeze
25-07-2023	26-07-2023	210	129	34	10	BDL	Cloudy /Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> 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 <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
14-07-2023	15-07-2023	210	126	35	10	BDL	Cloudy /Light Breeze
23-07-2023	24-07-2023	210	132	39	12	BDL	Cloudy /Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> 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 <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
13-07-2023	14-07-2023	239	162	46	14	BDL	Cloudy /Light Breeze
24-07-2023	25-07-2023	216	116	45	10	BDL	Cloudy /Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

FILTER PLANT COLONY		BBOA4				ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
14-07-2023	15-07-2023	52	26	8	BDL	Cloudy /Light Breeze
23-07-2023	24-07-2023	56	29	10	BDL	Cloudy /Light Breeze
NAAQS, 2009		100	60	80	80	

  
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 <small>TC-7102</small>
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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES :	16-07-23 TO 14-08-23

MINE WATER DISCHARGE: <b>BBUW1</b>				
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
14-07-2023	7.46	28	36	BDL
29-07-2023	7.95	32	44	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

<b>FAN HOUSE: BBUN1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	14-07-2023	68.6	67.8
JULY'23	28-07-2023	68.8	67.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY: BBUN2</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	14-07-2023	43.5	42.6
JULY'23	28-07-2023	42.9	41.7
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

# GOURI-I & II (A) OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



JULY 2023

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/44	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

MANAGER OFFICE-GOURI-I OC BGOA1							
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 <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
12-07-2023	13-07-2023	246	122	39	14	BDL	Rainy Light Breeze
29-07-2023	30-07-2023	236	145	46	14	BDL	Cloudy Sky /Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	


SAM OFFICE GOURI SUB AREA BGOA2							
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 <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
12-07-2023	13-07-2023	210	122	35	12	BDL	Rainy Light Breeze
29-07-2023	30-07-2023	245	120	39	12	BDL	Cloudy Sky /Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

GOURI COLONY FILTER PLANT BSOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>		
04-07-2023	05-07-2023	50	29	10	BDL	Rainy Sky / Light Breeze	
05-07-2023	06-07-2023	53	32	11	BDL	Rainy Sky / Light Breeze	
11-07-2023	12-07-2023	60	34	12	BDL	Cloudy Sky /Light Breeze	
12-07-2023	13-07-2023	48	20	8	BDL	Rainy Sky / Light Breeze	
18-07-2023	19-07-2023	50	24	10	BDL	Cloudy Sky /Light Breeze	
19-07-2023	20-07-2023	48	28	12	BDL	Cloudy Sky /Light Breeze	
25-07-2023	26-07-2023	45	20	6	BDL	Cloudy Sky /Light Breeze	
26-07-2023	27-07-2023	53	23	8	BDL	Cloudy Sky /Light Breeze	
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	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>		
12-07-2023	13-07-2023	43	22	8	BDL	Rainy Light Breeze	
28-07-2023	29-07-2023	65	27	7	BDL	Cloudy Sky /Light Breeze	
NAAQS, 2009		100	60	80	80		



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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-07-23 TO 14-08-23	

<b>GOURI I &amp; II OC CHP   BGUF1</b>				
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )		ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	
FROM	TO	5	5	
26-07-2023	27-07-2023	430	256	Cloudy Sky /Light Breeze
<b>GOURI I &amp; II OC W BRIDGE   BGUF1</b>				
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )		ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	
FROM	TO	5	5	
26-07-2023	27-07-2023	465	284	Cloudy Sky /Light Breeze



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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES :	16-07-23 TO 14-08-23

<b>MINE WATER DISCHARGE: BGOW1</b>				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
12-07-2023	7.85	26	32	BDL
26-07-2023	7.7	32	40	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

<b>ETP DISCHARGE: BGOW2</b>				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
12-07-2023	7.65	28	36	BDL
26-07-2023	7.82	26	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**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

CHP: <b>BGON1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	14-07-2023	61.8	60.7
JULY'23	28-07-2023	60.6	59.7
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

GOURI COLONY: <b>BSON2</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	14-07-2023	42.6	41.9
JULY'23	28-07-2023	43.7	42.8
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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### GOURI DEEP OC

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TEST REPORT NO.	RIN/TR/JULY-23/43	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

MANAGER OFFICE   BGDO1							
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 <sub>10</sub>	PM <sub>2.5</sub>	No <sub>x</sub>	So <sub>x</sub>	
11-07-2023	12-07-2023	210	142	38	16	BDL	Cloudy / Light Breeze
29-07-2023	30-07-2023	230	138	43	14	BDL	Cloudy / Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		<b>600</b>	<b>300</b>	-	<b>120</b>	<b>120</b>	

MUTRA VILLAGE   BGDO2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>x</sub>	So <sub>x</sub>		
11-07-2023	12-07-2023	43	20	8	BDL	BDL	Cloudy / Light Breeze
29-07-2023	30-07-2023	45	26	10	BDL	BDL	Cloudy / Light Breeze
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>		

GOYEGAON VILLAGE   BGDO3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>x</sub>	So <sub>x</sub>		
11-07-2023	12-07-2023	50	26	8	BDL	BDL	Cloudy / Light Breeze
29-07-2023	30-07-2023	56	28	8	BDL	BDL	Cloudy / Light Breeze
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>		

ANTARGAON VILLAGE   BGDO4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>x</sub>	So <sub>x</sub>		
11-07-2023	12-07-2023	39	18	6	BDL	BDL	Cloudy / Light Breeze
29-07-2023	30-07-2023	48	24	9	BDL	BDL	Cloudy / Light Breeze
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>		



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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-07-23 TO 14-08-23	

WEIGH BRIDGE  BGDOF1				
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )		ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	
FROM	TO	5	5	
29-Jul-23	30-Jul-23	460	325	Cloudy / Light Breeze
CHP  BGDOF2				
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )		ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	
FROM	TO	5	5	
28-Jul-23	29-Jul-23	510	360	Cloudy / Light 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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES :	16-07-23 TO 14-08-23

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
10-07-2023	7.54	26	32	BDL
25-07-2023	7.65	32	44	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
10-07-2023	7.65	30	36	BDL
25-07-2023	7.40	18	28	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

MANAGER OFFICE:		BGON1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JULY'23	14-07-2023	57.6	56.5
JULY'23	28-07-2023	53.6	52.8
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

CHP		BGON2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JULY'23	14-07-2023	59.6	58.7
JULY'23	28-07-2023	56.7	55.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>



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## ENVIRONMENTAL MONITORING REPORT

# NEW DHOPTALA OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



JULY 2023

Environment Laboratory  
NABL Accredited vide Cert. No. TC-7102  
CMPDI  
REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/45	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

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 <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
13-07-2023	14-07-2023	205	112	39	11	BDL	Clody Sky /Light Breeze
24-07-2023	25-07-2023	246	145	37	12	BDL	Clody Sky /Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		<b>600</b>	<b>300</b>	-	<b>120</b>	<b>120</b>	

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 <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
14-07-2023	15-07-2023	236	150	40	14	BDL	Clody Sky /Light Breeze
25-07-2023	26-07-2023	256	158	53	13	BDL	Clody Sky /Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		<b>600</b>	<b>300</b>	-	<b>120</b>	<b>120</b>	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
13-07-2023	14-7-236	45	22	8	BDL	Cloudy Sky /Light Breeze
27-07-2023	28-07-2023	56	29	10	BDL	Cloudy Sky /Light Breeze
		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
11-07-2023	12-07-2023	43	20	8	BDL	Cloudy / Light Breeze
29-07-2023	30-07-2023	45	26	10	BDL	Cloudy Sky /Light Breeze
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	

  
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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-07-23 TO 14-08-23	

WEIGH BRIDGE   BNDOF1				
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )		ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	
FROM	TO	5	5	
24-Jul-23	25-Jul-23	453	290	Cloudy Sky /Light Breeze

CHP/Coal Mine Point   BNDOF2				
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )		ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	
FROM	TO	5	5	
24-Jul-23	25-Jul-23	498	310	Cloudy Sky /Light 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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES :	16-07-23 TO 14-08-23

MINE WATER DISCHARGE: BNDOW1				
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
13-07-2023	7.45	22	32	BDL
28-07-2023	7.65	30	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**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

<b>CHP: BNDON1</b>		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY'23	14-07-2023	59.8	58.6
JULY'23	28-07-2023	58.7	57.5
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>SASTI COLONY: BSUN2</b>		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY'23	14-07-2023	43.6	42.7
JULY'23	28-07-2023	42.6	41.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

### PAUNI II OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



JULY 2023

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TEST REPORT NO.	RIN/TR/JULY-23/47	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

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 <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
13-07-2023	14-07-2023	212	145	42	14	BDL	Cloudy Sky /Light Breeze
27-07-2023	28-07-2023	251	124	36	14	BDL	Cloudy Sky /Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> 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 <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
13-07-2023	14-07-2023	210	132	39	12	BDL	Cloudy Sky /Light Breeze
27-07-2023	28-07-2023	234	136	43	13	BDL	Cloudy Sky /Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> 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	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>		
04-07-2023	05-07-2023	52	24	12	BDL	Rainy Sky /Light Breeze	
05-07-2023	06-07-2023	60	22	13	BDL	Clear Sky / Calm	
11-07-2023	12-07-2023	48	26	9	BDL	Cloudy Sky /Light Breeze	
12-07-2023	13-07-2023	57	28	8	BDL	Cloudy Sky /Light Breeze	
18-07-2023	19-07-2023	39	20	6	BDL	Rainy Sky /Light Breeze	
19-07-2023	20-07-2023	46	23	8	BDL	Rainy Sky /Light Breeze	
25-07-2023	26-07-2023	50	26	6	BDL	Rainy Sky /Light Breeze	
26-07-2023	27-07-2023	56	29	8	BDL	Rainy Sky /Light Breeze	
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 <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
13-07-2023	14-07-2023	210	136	32	12	BDL	Cloudy Sky light breeze
27-07-2023	28-07-2023	213	125	40	13	BDL	Cloudy Sky light breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> 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		
SAMPLE DESCRIPTION	Air sample(Fugitive)		
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-07-23 TO 14-08-23	

<b>WEIGH BRIDGE   BND0F1</b>				
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )		ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	
FROM	TO	5	5	
26-Jul-23	27-Jul-23	420	341	Cloudy Sky light breeze

<b>CHP   BND0F2</b>				
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )		ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	
FROM	TO	5	5	
26-Jul-23	27-Jul-23	462	361	Cloudy Sky light 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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES :	16-07-23 TO 14-08-23

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
04-07-2023	8.10	36	52	BDL
23-07-2023	7.85	32	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**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

<b>MANAGER OFFICE:</b>		<b>BPON1</b>	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JULY'23	14-07-2023	55.5	56.6
JULY'23	28-07-2023	54.8	53.7
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>CHP</b>		<b>BPON2</b>	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JULY'23	14-07-2023	60.7	59.5
JULY'23	28-07-2023	57.6	56.8
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>



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## ENVIRONMENTAL MONITORING REPORT

### PAUNI OC

BALLARPUR AREA

### WESTERN COALFIELDS LTD.

JOB NO. 4094423068



JULY 2023

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TEST REPORT NO.	RIN/TR/JULY-23/46	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

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 <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
12-07-2023	13-07-2023	256	148	42	14	BDL	Cloudy Sky light breeze
27-07-2023	28-07-2023	262	154	39	11	BDL	Cloudy Sky light breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		<b>600</b>	<b>300</b>	-	<b>120</b>	<b>120</b>	


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 <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
13-07-2023	14-07-2023	210	136	32	12	BDL	Cloudy Sky light breeze
27-07-2023	28-07-2023	213	125	40	13	BDL	Cloudy Sky light breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		<b>600</b>	<b>300</b>	-	<b>120</b>	<b>120</b>	

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	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>		
13-07-2023	14-07-2023	50	30	10	BDL	Cloudy Sky light breeze	
27-07-2023	28-07-2023	35	26	11	BDL	Rainy /Light breeze	
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>		

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	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>		
12-07-2023	13-07-2023	43	22	8	BDL	Rainy Light Breeze	
28-07-2023	29-07-2023	65	27	7	BDL	Cloudy Sky /Light Breeze	
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>		



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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-07-23 TO 14-08-23	

WEIGH BRIDGE   BND0F1				
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )		ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	
FROM	TO			
27-Jul-23	28-Jul-23	510	298	cloudy calm /Light 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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23		


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
13-07-2023	7.84	26	36	BDL
27-07-2023	7.45	18	28	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

ETP DISCHARGE: BPOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
13-07-2023	7.45	22	32	BDL
27-07-2023	7.65	28	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**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

<b>MANAGER OFFICE:</b>		<b>BPON1</b>	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	14-07-2023	54.7	53.8
JULY'23	28-07-2023	55.7	54.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>GOURI COLONY:</b>		<b>BSON2</b>	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	14-07-2023	42.6	41.9
JULY'23	28-07-2023	43.7	42.8
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

### SASTI OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



JULY 2023

Environment Laboratory  
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JARIPATKA, NAGPUR, PIN – 440 014

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/48	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

SAM OFFICE-SASTI OC BSOA1							
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 <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
13-07-2023	14-07-2023	245	156	48	14	BDL	Cloudy Sky / Light Breeze
27-07-2023	28-07-2023	265	142	42	15	BDL	Cloudy Sky / Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		<b>600</b>	<b>300</b>	-	<b>120</b>	<b>120</b>	


AREA STORE BSOA2							
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 <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
13-07-2023	14-07-2023	205	122	40	13	BDL	Cloudy Sky / Light Breeze
27-07-2023	28-07-2023	234	136	30	14	BDL	Cloudy Sky / Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		<b>600</b>	<b>300</b>	-	<b>120</b>	<b>120</b>	

GOURI COLONY FILTER PLANT BSOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>		
04-07-2023	05-07-2023	50	29	10	BDL	Cloudy Sky / Light Breeze	
05-07-2023	06-07-2023	53	32	11	BDL	Cloudy Sky / Light Breeze	
11-07-2023	12-07-2023	60	34	12	BDL	Cloudy Sky / Light Breeze	
12-07-2023	13-07-2023	48	20	8	BDL	Cloudy Sky / Light Breeze	
18-07-2023	19-07-2023	50	24	10	BDL	Rainy Sky / Light breeze	
19-07-2023	20-07-2023	48	28	12	BDL	Rainy Sky / Light breeze	
25-07-2023	26-07-2023	45	20	8	BDL	Rainy Sky / Light breeze	
26-07-2023	27-07-2023	53	23	8	BDL	Rainy Sky / Light breeze	
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>		

SASTI VILLAGE BSUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>		
04-07-2023	05-07-2023	54	29	12	BDL	Cloudy Sky / Light Breeze	
05-07-2023	06-07-2023	59	33	13	BDL	Cloudy Sky / Light Breeze	
11-07-2023	12-07-2023	62	36	14	BDL	Cloudy Sky / Light Breeze	
12-07-2023	13-07-2023	54	30	10	BDL	Cloudy Sky / Light Breeze	
18-07-2023	19-07-2023	54	27	8	BDL	Rainy Sky / Light breeze	
19-07-2023	20-07-2023	45	25	7	BDL	Rainy Sky / Light breeze	
25-07-2023	26-07-2023	40	22	7	BDL	Rainy Sky / Light breeze	
26-07-2023	27-07-2023	56	30	9	BDL	Rainy Sky / Light breeze	
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>		



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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES: 16-05-23 TO 15-06-23		

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 <sub>10</sub>	
<b>WEIGH BRIDGE   BSOF1</b>				
25-Jul-23	26-Jul-23	520	356	Cloudy Sky / Light Breeze
<b>MAIN CHP   BSOF2</b>				
25-Jul-23	26-Jul-23	487	386	Cloudy Sky / Light 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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23

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
09-07-2023	7.56	24	36	BDL
18-07-2023	7.64	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
09-07-2023	7.65	22	32	BDL
18-07-2023	7.45	18	44	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	
09-07-2023	28	9.2	
18-07-2023	32	10.4	
GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS GSR 801E EPA 1993	100	30	



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**NOISE LEVEL MONITORING DATA**

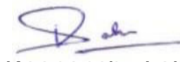
SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

CHP:		BSON1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	14-07-2023	61.7	60.8
JULY'23	28-07-2023	57.8	56.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES,2000</b>		<b>75</b>	<b>70</b>

GOURI COLONY:		BSON2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	14-07-2023	42.6	41.9
JULY'23	28-07-2023	43.7	42.8
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES,2000</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

### SASTI UG

BALLARPUR AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



JULY 2023

Environment Laboratory  
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>		<b>Test Report</b>			
TEST REPORT NO.	RIN/TR/JULY-23/49	DATE OF ISSUE	31-08-2023		
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR				
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)				
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47		
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-07-23 TO 14-08-23			

SAM OFFICE-DHOPTALA SUB AREA   BNDOA1							
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 <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
13-07-2023	14-07-2023	205	112	39	11	BDL	Clody Sky /Light Breeze
24-07-2023	25-07-2023	246	145	37	12	BDL	Clody Sky /Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

MANAGER OFFICE-DHOPTALA OC   BNDOA2							
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 <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
14-07-2023	15-07-2023	236	150	40	14	BDL	Clody Sky /Light Breeze
25-07-2023	26-07-2023	256	158	53	13	BDL	Clody Sky /Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SASTI COLONY   BSUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>		
13-07-2023	14-07-2023	45	22	8	BDL	Clody Sky /Light Breeze	
27-07-2023	28-07-2023	56	29	10	BDL	Cloudy Sky /Light Breeze	
NAAQS, 2009		100	60	80	80		

SASTI VILLAGE   BSUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>		
04-07-2023	05-07-2023	54	29	13	BDL	Clody Sky /Light Breeze	
05-07-2023	06-07-2023	59	33	14	BDL	Clody Sky /Light Breeze	
11-07-2023	12-07-2023	62	36	10	BDL	Clody Sky /Light Breeze	
12-07-2023	13-07-2023	54	30	14	BDL	Clody Sky /Light Breeze	
18-07-2023	19-07-2023	54	27	8	BDL	Rainy Sky / Light breeze	
19-07-2023	20-07-2023	45	25	7	BDL	Rainy Sky / Light breeze	
25-07-2023	26-07-2023	40	22	7	BDL	Rainy Sky / Light breeze	
26-07-2023	27-07-2023	56	30	9	BDL	Rainy Sky / Light breeze	
NAAQS, 2009		100	60	80	80		



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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

FAN HOUSE:		BSUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JULY'23	14-07-2023	44.5	43.5
JULY'23	28-07-2023	44.6	43.7
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

SASTI COLONY:		BSUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JULY'23	14-07-2023	43.6	42.7
JULY'23	28-07-2023	42.6	41.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

### BHATADI OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



JULY 2023

Environment Laboratory  
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/31	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

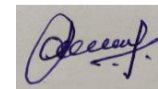
BHATADI SECURITY POST CBOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
01.07.2023	02.07.2023	253	145	54	22	15	Cloudy Sky/Light Breeze
16.07.2023	17.07.2023	241	140	51	19	13	Cloudy Sky/Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> 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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
01.07.2023	02.07.2023	244	142	49	21	11	Cloudy Sky/Light Breeze
16.07.2023	17.07.2023	236	139	43	17	14	Cloudy Sky/Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> 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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
02.07.2023	03.07.2023	62	29	10	BDL	Cloudy Sky/Light Breeze	
17.07.2023	18.07.2023	56	25	14	BDL	Cloudy Sky/Light Breeze	
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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
03.07.2023	04.07.2023	60	24	10	BDL	Cloudy Sky/Light Breeze	
17.07.2023	18.07.2023	63	26	14	BDL	Cloudy Sky/Light Breeze	
NAAQS, 2009		100	60	80	80		

BHATADI COLONY CBOA5							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
01-07-2023	02-07-2023	62	26	15	13	Cloudy Sky / Lightbreeze	
16-07-2023	17-07-2023	56	23	11	11	Cloudy Sky / Lightbreeze	
NAAQS, 2009		100	60	80	80		



Analysed by

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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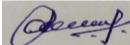
**FUGITIVE DUST MONITORING**

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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-07-23 TO 14-08-23


WORKSHOP CBOF1				
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )		ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	
FROM	TO	5	5	
02-07-2023	03-07-2023	438	269	Clear Sky / Light Breeze

CHP/MGR LOADING POINT CBOF2				
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )		ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	
FROM	TO	5	5	
02-07-2023	03-07-2023	453	284	Clear Sky / Light 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)
		SPM	PM <sub>10</sub>	
FROM	TO	5	5	
02-07-2023	03-07-2023	442	275	Clear Sky / Light 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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23			

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
01-07-2023	7.35	38	36	BDL
16-07-2023	7.29	43	44	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

ETP DISCHARGE: CBOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
01-07-2023	7.48	26	24	BDL
16-07-2023	7.79	30	32	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

STP(DOMESTIC EFFLUENT)TREATED: CBOW3		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS (in mg/l)	BOD(in mg/l)
DETECTION LIMIT	10	2
01-07-2023	30	16.8
16-07-2023	22	14.6
GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS GSR 801E EPA 1993	100	30



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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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**NOISE LEVEL MONITORING DATA**

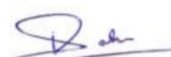
SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JUNE-2015
SAMPLING METHOD	LSOP 6

CHP: <b>CBON1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	07-07-2023	60.6	59.6
JULY'23	22-07-2023	56.7	55.7
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY: <b>CBON2</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	07-07-2023	42.9	41.8
JULY'23	22-07-2023	42.6	41.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

### CRC UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



JULY 2023

Environment Laboratory  
NABL Accredited vide Cert. No. TC-7102  
CMPDI  
REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/32	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-07-23 TO 14-08-23	

MANAGER OFFICE MAHAKALI UG CMKUA1							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
06.07.2023	07.07.2023	259	154	51	20	16	Cloudy Sky/Light Breeze
20.07.2023	21.07.2023	230	132	47	18	12	Rainy sky/Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> 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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
06.07.2023	07.07.2023	242	136	53	22	17	Cloudy Sky/Light Breeze
20.07.2023	21.07.2023	231	130	48	17	12	Rainy sky/Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> 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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
05.07.2023	06.07.2023	247	144	54	20	16	Cloudy Sky/Light Breeze
19.07.2023	20.07.2023	228	127	47	18	11	Rainy sky/Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY (MAHAKALI UG) CMKUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
05.07.2023	06.07.2023	65	29	13	BDL	BDL	Cloudy Sky/Light Breeze
19.07.2023	20.07.2023	54	22	8	BDL	BDL	Rainy sky/Light Breeze
NAAQS, 2009		100	60	80	80		



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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-07-23 TO 14-08-23	

CHP/CCUF1				
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )		ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	
FROM	TO	5	5	
09-07-2023	10-07-2023	449	271	Cloudy / Light Breeze



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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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**NOISE LEVEL MONITORING DATA**

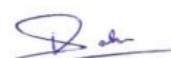
SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JUNE-2015
SAMPLING METHOD	LSOP 6

CHP: CCRUN1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY'23	07-07-2023	59.7	58.6
JULY'23	22-07-2023	57.8	56.7
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY: CCRUN2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY'23	07-07-2023	43.8	42.7
JULY'23	22-07-2023	43.8	42.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

### DRC UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



JULY 2023

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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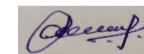
TEST REPORT NO.	RIN/TR/JULY-23/33	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
05.07.2023	06.07.2023	248	144	52	22	16	Cloudy Sky/Light Breeze
19.07.2023	20.07.2023	231	135	47	19	13	Rainy sky/Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
05.07.2023	06.07.2023	256	151	54	21	18	Cloudy Sky/Light Breeze
19.07.2023	20.07.2023	243	140	50	17	15	Rainy sky/Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )				ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
04.07.2023	05.07.2023	70	28	14	BDL	Cloudy Sky/Light Breeze
18.07.2023	19.07.2023	61	23	11	BDL	Rainy sky/Light Breeze
NAAQS, 2009		100	60	80	80	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
04.07.2023	05.07.2023	252	154	52	23	19	Cloudy Sky/Light Breeze
19.07.2023	20.07.2023	229	132	46	20	18	Rainy sky/Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	



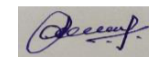
Analysed by

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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-07-23 TO 14-08-23

		COAL BUNKER   CDUF1		
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )		ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	
FROM	TO	5	5	
05-07-2023	06-07-2023	451	285	Cloudy / Light 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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23

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
05-07-2023	7.96	18	32	BDL
18-07-2023	8.12	24	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**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JUNE-2015
SAMPLING METHOD	LSOP 6

FAN HOUSE: CDRUN1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	07-07-2023	66.5	65.8
JULY'23	22-07-2023	58.6	57.8
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

DURGAPUR COLONY: CDRUN2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	07-07-2023	43.6	42.7
JULY'23	22-07-2023	43.6	42.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

### DURGAPUR OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



JULY 2023

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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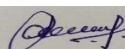
TEST REPORT NO.	RIN/TR/JULY-23/34	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

MANAGER OFFICE-SECTOR V CDOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )				ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>		SO <sub>2</sub>
06.07.2023	07.07.2023	242	140	52	23	17	Clear sky/Calm
20.07.2023	21.07.2023	230	132	49	20	11	Rainy sky/Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		<b>600</b>	<b>300</b>	-	<b>120</b>	<b>120</b>	

DURGAPUR VILLAGE CDOA2						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )				ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
04.07.2023	05.07.2023	58	24	8	10	Rainy sky/Light Breeze
05.07.2023	06.07.2023	62	28	11	BDL	Clear sky/Calm
11.07.2023	12.07.2023	60	27	9	BDL	Cloudy sky/Light Breeze
12.07.2023	13.07.2023	56	23	12	13	Rainy sky/Light Breeze
18.07.2023	19.07.2023	53	21	10	BDL	Rainy sky/Light Breeze
19.07.2023	20.07.2023	43	20	13	11	Rainy sky/Light Breeze
25.07.2023	26.07.2023	48	23	15	10	Rainy sky/Light Breeze
26.07.2023	27.07.2023	40	19	12	13	Rainy sky/Moderate Breeze
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	

MANAGER OFFICE Q-IV CDOA3( Durgapur OC)							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )				ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>		SO <sub>2</sub>
06.07.2023	07.07.2023	256	153	55	25	19	Clear sky/Calm
20.07.2023	21.07.2023	241	143	50	22	14	Rainy sky/Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		<b>600</b>	<b>300</b>	-	<b>120</b>	<b>120</b>	

FILTER PLANT DOC/POC COLONY CDOA4						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )				ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
04.07.2023	05.07.2023	56	26	11	12	Rainy sky/Light Breeze
05.07.2023	06.07.2023	60	31	10	BDL	Clear sky/Calm
11.07.2023	12.07.2023	68	36	11	11	Cloudy sky/Light Breeze
12.07.2023	13.07.2023	65	33	12	BDL	Cloudy sky/Light Breeze
18.07.2023	19.07.2023	58	27	16	BDL	Rainy sky/Light Breeze
19.07.2023	20.07.2023	52	25	13	13	Rainy sky/Light Breeze
25.07.2023	26.07.2023	48	23	15	10	Rainy sky/Light Breeze
26.07.2023	27.07.2023	45	21	12	BDL	Rainy sky/Moderate Breeze
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	



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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 <small>TC-7102</small>
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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-07-23 TO 14-08-23	

CHP CDGOF1				
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )		ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	
FROM	TO	5	5	
18-07-2023	19-07-2023	415	256	Rainy / Light Breeze

CHECK POST / AYYAPA MANDIR CDGOF2				
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )		ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	
FROM	TO	5	5	
18-07-2023	19-07-2023	401	242	Rainy / Light Breeze



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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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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 PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23

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
09.07.2023	6.45	20	24	BDL
19.07.2023	5.98	18	20	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

MINE WATER DISCHARGE Q-V 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
09.07.2023	5.92	53	44	BDL
19.07.2023	5.46	45	36	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

ETP(WORKSHOP): CDOW3				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
09.07.2023	7.45	38	36	BDL
19.07.2023	7.16	32	32	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	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
09.07.2023	34	10.2
19.07.2023	41	10.8
GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS GSR 801E EPA 1993	100	30



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**NOISE LEVEL MONITORING DATA**

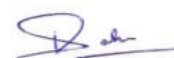
SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JUNE-2015
SAMPLING METHOD	LSOP 6

CHP:		CDON1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JULY'23	07-07-2023	60.7	59.8
JULY'23	22-07-2023	60.8	58.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

DURGAPUR COLONY:		CDON2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JULY'23	07-07-2023	43.6	42.7
JULY'23	22-07-2023	43.6	42.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

### HLP-I & III UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



JULY 2023

Environment Laboratory  
NABL Accredited vide Cert. No. TC-7102  
CMPDI  
REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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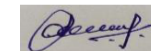
TEST REPORT NO.	RIN/TR/JULY-23/36	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
10.07.2023	11.07.2023	262	154	58	22	15	Cloudy Sky/Light Breeze
22.07.2023	23.07.2023	234	130	49	16	11	Rainy sky/Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> 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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
10.07.2023	11.07.2023	250	144	56	20	14	Cloudy Sky/Light Breeze
22.07.2023	23.07.2023	230	130	46	17	10	Rainy sky/Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> 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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
10.07.2023	11.07.2023	70	28	15	BDL		Cloudy Sky/Light Breeze
22.07.2023	23.07.2023	59	22	11	BDL		Rainy sky/Light Breeze
NAAQS, 2009		100	60	80	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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
10.07.2023	11.07.2023	65	26	13	BDL		Cloudy Sky/Light Breeze
20.07.2023	21.07.2023	55	20	9	BDL		Rainy sky/Light 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   PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23

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
10.07.2023	8.13	31	32	BDL
22.07.2023	7.96	24	36	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
10.07.2023	8.05	33	40	BDL
22.07.2023	7.86	40	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**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JUNE-2015
SAMPLING METHOD	LSOP 6

FAN HOUSE-I:		CHUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	07-07-2023	67.6	66.5
JULY'23	22-07-2023	68.6	67.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY:		CHUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	07-07-2023	44.4	43.2
JULY'23	22-07-2023	42.8	41.5
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

### HLP OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068




JULY 2023

Environment Laboratory  
NABL Accredited vide Cert. No. TC-7102  
CMPDI  
REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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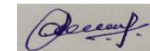
TEST REPORT NO.	RIN/TR/JULY-23/35	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08.07.2023	09.07.2023	253	146	59	24	18	Cloudy Sky/Light Breeze
21.07.2023	22.07.2023	246	139	53	21	14	Cloudy Sky/Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

MANAGER OFFICE(HLP OC)   CHOA2							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
07.07.2023	08.07.2023	254	145	58	26	19	Cloudy Sky/Light Breeze
21.07.2023	22.07.2023	240	131	51	21	11	Cloudy Sky/Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

MANA VILLAGE   CMUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
08.07.2023	09.07.2023	68	29	13	BDL	BDL	Cloudy Sky/Light Breeze
21.07.2023	22.07.2023	62	24	9	BDL	BDL	Cloudy Sky/Light Breeze
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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
09.07.2023	10.07.2023	70	28	15	BDL	BDL	Cloudy Sky/Light Breeze
22.07.2023	23.07.2023	60	20	11	BDL	BDL	Rainy sky/Light 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 : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-07-23 TO 14-08-23	

		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 <sub>10</sub>		
07.07.2023	08.07.2023	448	274		Cloudy / Light Breeze

		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 <sub>10</sub>		
07.07.2023	08.07.2023	452	285		Clear / Light Breeze

		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 <sub>10</sub>		
07.07.2023	08.07.2023	460	280		Cloudy / Light 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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23

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
08.07.2023	3.12	24	28	BDL
21.07.2023	3.01	35	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**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JUNE-2015
SAMPLING METHOD	LSOP 6

CHP: CHON1		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY'23	07-07-2023	61.8	60.7
JULY'23	22-07-2023	59.7	58.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY HLP: CHON2		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY'23	07-07-2023	42.6	41.5
JULY'23	22-07-2023	42.9	41.8
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

### MAHAKALI UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



JULY 2023

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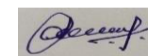
<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>		<b>Test Report</b>		 TC-7102	
TEST REPORT NO.	RIN/TR/JULY-23/37	DATE OF ISSUE	31-08-2023		
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR				
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017)				
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47		
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:			16-07-23 TO 14-08-23	

MANAGER OFFICE MAHAKALI UG   CMKUA1							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
06.07.2023	07.07.2023	259	154	51	20	16	Cloudy Sky/Light Breeze
20.07.2023	21.07.2023	230	132	47	18	12	Rainy sky/Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> 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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
06.07.2023	07.07.2023	242	136	53	22	17	Cloudy Sky/Light Breeze
20.07.2023	21.07.2023	231	130	48	17	12	Rainy sky/Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> 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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
05.07.2023	06.07.2023	247	144	54	20	16	Cloudy Sky/Light Breeze
19.07.2023	20.07.2023	228	127	47	18	11	Rainy sky/Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY (MAHAKALI UG)   CMKUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
05.07.2023	06.07.2023	65	29	13	BDL	Cloudy Sky/Light Breeze	
19.07.2023	20.07.2023	54	22	8	BDL	Rainy sky/Light Breeze	
NAAQS, 2009		100	60	80	80		



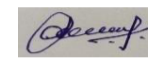
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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**FUGITIVE DUST MONITORING**

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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-07-23 TO 14-08-23	

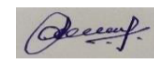
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )		ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	
06-07-2023	07-07-2023	480	285	Cloudy / Light Breeze



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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23		

MINE WATER DISCHARGE: CMKUW1				
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
06.07.2023	7.52	18	20	BDL
20.07.2023	7.24	25	28	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JUNE-2015
SAMPLING METHOD	LSOP 6

FAN HOUSE: CMKUN1		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY'23	07-07-2023	63.8	62.5
JULY'23	22-07-2023	55.6	54.7
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY(MAHAKALI): CMKUN2		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY'23	07-07-2023	42.6	41.7
JULY'23	22-07-2023	43.5	42.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

### MANA UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



JULY 2023

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

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/38	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

MANAGER OFFICE   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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08.07.2023	09.07.2023	249	138	55	23	14	Cloudy Sky/Light Breeze
21.07.2023	22.07.2023	240	133	50	25	18	Cloudy Sky/Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SUBSTATION MANA INCLINE   CMUA2							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08.07.2023	09.07.2023	238	134	54	22	14	Cloudy Sky/Light Breeze
21.07.2023	22.07.2023	243	140	58	26	16	Cloudy Sky/Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY (NANDGAON)   CNUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
09.07.2023	10.07.2023	70	28	15	BDL	Cloudy Sky/Light Breeze	
22.07.2023	23.07.2023	60	20	11	BDL	Rainy sky/Light Breeze	
NAAQS, 2009		100	60	80	80		

MANA VILLAGE   CMUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
08.07.2023	09.07.2023	68	29	13	BDL	Cloudy Sky/Light Breeze	
21.07.2023	22.07.2023	62	24	9	BDL	Cloudy Sky/Light Breeze	
		100	60	80	80		



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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES :	16-07-23 TO 14-08-23

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
09-07-2023	7.89	20	28	BDL
21-07-2023	7.64	32	36	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JUNE-2015
SAMPLING METHOD	LSOP 6

<b>FAN HOUSE: CMUN1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	07-07-2023	65.6	64.8
JULY'23	22-07-2023	56.7	55.8
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY(HLP OC): CHON2</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	07-07-2023	42.6	41.5
JULY'23	22-07-2023	42.9	41.8
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

### NANDGAON UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



JULY 2023

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/39	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-07-23 TO 14-08-23	

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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08.07.2023	09.07.2023	253	146	59	24	18	Cloudy Sky/Light Breeze
21.07.2023	22.07.2023	246	139	53	21	14	Cloudy Sky/Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> 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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08.07.2023	09.07.2023	238	134	54	22	14	Cloudy Sky/Light Breeze
21.07.2023	22.07.2023	243	140	58	26	16	Cloudy Sky/Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> 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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08.07.2023	09.07.2023	68	29	13	BDL	Cloudy Sky/Light Breeze
21.07.2023	22.07.2023	62	24	9	BDL	Cloudy Sky/Light Breeze
NAAQS, 2009		100	60	80	80	

COLONY (NANDGAON)		CNUA2				ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09.07.2023	10.07.2023	70	28	15	BDL	Cloudy Sky/Light Breeze
22.07.2023	23.07.2023	60	20	11	BDL	Rainy sky/Light Breeze
NAAQS, 2009		100	60	80	80	

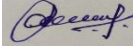


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SAMPLE DESCRIPTION	Water sample		
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)		
SAMPLING METHOD	LSOP 5	PERIOD OF PERFORMANCE OF LAB ACTIVITIES :	16-07-23 TO 14-08-23

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
10.07.2023	7.48	22	32	BDL
22.07.2023	7.13	34	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**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JUNE-2015
SAMPLING METHOD	LSOP 6

FAN HOUSE:		CNUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JULY'23	07-07-2023	68.7	67.6
JULY'23	22-07-2023	60.8	59.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY HLP OC:		CHON2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JULY'23	07-07-2023	42.6	41.5
JULY'23	22-07-2023	42.9	41.8
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

# PADMAPUR OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



JULY 2023

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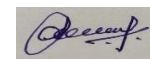
TEST REPORT NO.	RIN/TR/JULY-23/40	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
03.07.2023	04.07.2023	267	158	56	25	15	Cloudy Sky/Light Breeze
17.07.2023	18.07.2023	252	142	51	22	20	Cloudy Sky/Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		<b>600</b>	<b>300</b>	-	<b>120</b>	<b>120</b>	

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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
03.07.2023	04.07.2023	57	27	15	10	10	Cloudy Sky/Light Breeze
18.07.2023	19.07.2023	49	19	10	BDL	BDL	Rainy sky/Light Breeze
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>80</b>	

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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
03.07.2023	04.07.2023	63	28	19	14	14	Cloudy Sky/Light Breeze
17.07.2023	18.07.2023	58	25	16	11	11	Cloudy Sky/Light Breeze
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>80</b>	

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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
01.07.2023	02.07.2023	70	34	13	BDL	BDL	Cloudy Sky/Light Breeze
16.07.2023	17.07.2023	67	31	15	BDL	BDL	Cloudy Sky/Light Breeze
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>80</b>	



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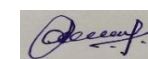
<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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**FUGITIVE DUST MONITORING**


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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-07-23 TO 14-08-23	

DATE(dd:mm:yy) OF SAMPLING		WEIGH BRIDGE CPRUF1		ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	
04-07-2023	05-07-2023	486	275	Cloudy Sky/Light Breeze

DATE(dd:mm:yy) OF SAMPLING		CHP/MGR LOADING POINT CPRUF2		ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	
04-07-2023	05-07-2023	492	285	Cloudy Sky/Light Breeze



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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JUNE-2015
SAMPLING METHOD	LSOP 6

<b>CHP:</b>		<b>CPON1</b>	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JULY'23	07-07-2023	58.5	57.6
JULY'23	22-07-2023	58.7	57.8
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>DURGAPUR COLONY:</b>		<b>CDON2</b>	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JULY'23	07-07-2023	43.6	42.7
JULY'23	22-07-2023	43.6	42.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

### NEW MAJRI-II(A) OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



JULY - 2023

Environment Laboratory  
NABL Accredited vide Cert. No. TC-7102  
CMPDI  
REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/51	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-07-23 TO 14-08-23	

NMOC SUBSTATION MMOA1							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
		5	5	2	6	10	
04-07-2023	05-07-2023	231	147	40	14	BDL	CLEAR / CALM
18-07-2023	19-07-2023	255	157	50	12	BDL	RAINY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	


PATALA MAGAZINE MMUA1							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
		5	5	2	6	10	
02-07-2023	03-07-2023	266	146	50	14	10	CLEAR / CALM
17-07-2023	18-07-2023	260	154	46	17	10	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

PRIMARY HEALTH CENTRE, MAJRI BASTI MMOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
		5	2	6	10		
03-07-2023	04-07-2023	78	32	10	BDL	CLEAR / CALM	
04-07-2023	05-07-2023	80	33	12	BDL	CLEAR / CALM	
10-07-2023	11-07-2023	71	38	11	BDL	RAINY / CALM	
11-07-2023	12-07-2023	64	36	13	BDL	RAINY / CALM	
18-07-2023	19-07-2023	56	30	12	BDL	RAINY / CALM	
19-07-2023	20-07-2023	70	28	11	BDL	RAINY / CALM	
25-07-2023	26-07-2023	62	33	13	BDL	RAINY / CALM	
26-07-2023	27-07-2023	50	31	14	BDL	CLOUDY / CALM	
NAAQS, 2009		100	60	80	80		

KUCHANA COLONY MMOA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
		5	2	6	10		
03-07-2023	04-07-2023	72	35	12	BDL	CLEAR / CALM	
04-07-2023	05-07-2023	76	30	14	10	CLEAR / CALM	
10-07-2023	11-07-2023	71	28	11	BDL	RAINY / CALM	
11-07-2023	12-07-2023	60	33	10	BDL	RAINY / CALM	
18-07-2023	19-07-2023	63	31	12	BDL	RAINY / CALM	
19-07-2023	20-07-2023	67	35	13	BDL	RAINY / CALM	
25-07-2023	26-07-2023	62	43	12	BDL	RAINY / CALM	
26-07-2023	27-07-2023	65	28	14	BDL	CLOUDY / 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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-07-23 TO 14-08-23	


FIELD MAIN SHED   MOF1				
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )		ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	
FROM	TO	5	5	
11-07-2023	12-07-2023	410	230	RAINY / CALM

CHP   MOF2				
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )		ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	
FROM	TO	5	5	
11-07-2023	12-07-2023	380	218	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) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)	
SAMPLING METHOD	LSOP 5	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23

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
04-07-2023	7.04	30	48	BDL
18-07-2023	8.00	24	40	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

ETP: MMOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
04-07-2023	7.40	26	56	BDL
18-07-2023	6.50	34	40	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

ETP: MAJRI AREA HOSPITAL				
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
04-07-2023	7.64	40	60	BDL
18-07-2023	7.36	48	52	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10
GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS GSR 801E EPA 1993		100		30

STP: MMUW3		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS (in mg/l)	BOD(in mg/l)
DETECTION LIMIT	10	2
04-07-2023	36	14
18-07-2023	40	10
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	100	30



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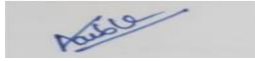
<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

FIELD MINE SHED:		MMON1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	12-07-2023	64.8	63.7
JULY'23	20-07-2023	51.6	50.0
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

KUCHNA COLONY:		MMON2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	12-07-2023	47.5	46.5
JULY'23	20-07-2023	45.6	43.8
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45



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## ENVIRONMENTAL MONITORING REPORT

### NEW MAJRI UG TO OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



JULY - 2023

Environment Laboratory  
NABL Accredited vide Cert. No. TC-7102  
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TEST REPORT NO.	RIN/TR/JULY-23/50	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

PATALA MAGAZINE MMUA1							
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 <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
02-07-2023	03-07-2023	266	146	50	14	10	CLEAR / CALM
17-07-2023	18-07-2023	260	154	46	17	10	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

MANAGER OFFICE UG TO OC MMUA2							
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 <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
02-07-2023	03-07-2023	272	160	57	16	12	CLEAR / CALM
18-07-2023	19-07-2023	266	151	63	15	11	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

CONTRACTOR CAMP MMUA3							
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 <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
02-07-2023	03-07-2023	270	155	45	14	BDL	CLEAR / CALM
19-07-2023	20-07-2023	262	150	53	13	BDL	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SAWARLA VILLAGE MMUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>		
02-07-2023	03-07-2023	70	30	10	BDL	CLEAR / CALM	
20-07-2023	21-07-2023	73	38	11	BDL	CLOUDY / 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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-07-23 TO 14-08-23	

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 <sub>10</sub>	
02-07-2023	03-07-2023	450	253	CLEAR / 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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23

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
02-07-2023	7.46	40	52	BDL
17-07-2023	7.2	32	40	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

ETP: MMUW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
10-07-2023	8.01	48	56	BDL
19-07-2023	7.00	36	44	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

STP: MMUW3		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS (in mg/l)	BOD(in mg/l)
DETECTION LIMIT	10	2
02-07-2023	40	15
17-07-2023	30	12.6
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	100	30



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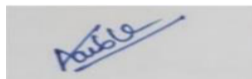
<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

PIT OFFICE:		MMUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JULY'23	12-07-2023	58.6	57.4
JULY'23	20-07-2023	54.6	52.7
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY(MAJRI UG TO OC):		MMUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JULY'23	12-07-2023	46.3	45.1
JULY'23	20-07-2023	43.2	42.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

### YEKONA I & II OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068




JULY - 2023

Environment Laboratory  
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TEST REPORT NO.	RIN/TR/JULY-23/52	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

PIT OFFICE   MYOA1							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
		5	5	2	6	10	
04-07-2023	05-07-2023	280	173	57	18	14	CLEAR / CALM
19-07-2023	20-07-2023	262	166	50	15	10	RAINY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	60	120	120	

PENZURNI VILLAGE   MYOA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
		5	2	6	10		
03-07-2023	04-07-2023	64	30	13	BDL		CLEAR / CALM
04-07-2023	05-07-2023	71	32	11	BDL		CLEAR / CALM
10-07-2023	11-07-2023	60	27	10	BDL		RAINY / CALM
11-07-2023	12-07-2023	72	40	14	11		RAINY / CALM
18-07-2023	19-07-2023	59	31	13	BDL		RAINY / CALM
19-07-2023	20-07-2023	63	27	12	BDL		RAINY / CALM
25-07-2023	26-07-2023	65	33	11	BDL		RAINY / CALM
26-07-2023	27-07-2023	76	35	14	10		CLOUDY / CALM
NAAQS, 2009		100	60	80	80		


ASHTI VILLAGE   MYOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
		5	2	6	10		
03-07-2023	04-07-2023	60	30	12	BDL		CLEAR / CALM
04-07-2023	05-07-2023	72	28	10	BDL		CLEAR / CALM
10-07-2023	11-07-2023	70	29	13	BDL		RAINY / CALM
11-07-2023	12-07-2023	73	33	14	10		RAINY / CALM
18-07-2023	19-07-2023	58	30	11	BDL		RAINY / CALM
19-07-2023	20-07-2023	60	31	14	BDL		RAINY / CALM
25-07-2023	26-07-2023	57	28	12	BDL		RAINY / CALM
26-07-2023	27-07-2023	62	32	11	BDL		CLOUDY / CALM
NAAQS, 2009		100	60	80	80		

DANDGAON VILLAGE   MYOA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
		5	2	6	10		
03-07-2023	04-07-2023	65	28	12	BDL		CLEAR / CALM
04-07-2023	05-07-2023	55	30	8	BDL		CLEAR / CALM
10-07-2023	11-07-2023	64	32	10	BDL		RAINY / CALM
11-07-2023	12-07-2023	56	30	12	BDL		RAINY / CALM
18-07-2023	19-07-2023	61	28	11	BDL		RAINY / CALM
19-07-2023	20-07-2023	80	31	14	10		RAINY / CALM
25-07-2023	26-07-2023	68	27	10	BDL		RAINY / CALM
26-07-2023	27-07-2023	60	30	12	BDL		CLOUDY / CALM
NAAQS, 2009		100	60	80	80		

		HIWRA MAJRA VILLAGE   MYOAS				
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)
		PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	2	6	10	
03-07-2023	04-07-2023	60	40	12	BDL	CLEAR / CALM
04-07-2023	05-07-2023	68	32	10	BDL	CLEAR / CALM
10-07-2023	11-07-2023	70	31	14	10	RAINY / CALM
11-07-2023	12-07-2023	68	32	12	BDL	RAINY / CALM
18-07-2023	19-07-2023	58	30	13	BDL	RAINY / CALM
19-07-2023	20-07-2023	65	32	12	BDL	RAINY / CALM
25-07-2023	26-07-2023	60	34	11	BDL	RAINY / CALM
26-07-2023	27-07-2023	64	30	14	BDL	CLOUDY / CALM
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	



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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-07-23 TO 14-08-23	

STOCK YARD MYOF1				
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )		ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	
FROM	TO			
11-07-2023	12-07-2023	408	228	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) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)	
SAMPLING METHOD	LSOP 5	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23

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
05-07-2023	7.00	40	60	BDL
19-07-2023	7.30	46	56	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	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
05-07-2023	6.86	40	64	BDL
19-07-2023	6.40	36	44	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	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
05-07-2023	6.81	34	44	BDL
19-07-2023	7.0	38	52	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	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
05-07-2023	30	12
19-07-2023	44	15
GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS GSR 801E EPA 1993	100	30



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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

PIT OFFICE		MYON1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		<b>20</b>	<b>20</b>
JULY'23	12-07-2023	58.6	57.4
JULY'23	20-07-2023	56.4	53.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>



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## ENVIRONMENTAL MONITORING REPORT

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NAGPUR AREA

WESTERN COALFIELDS LTD.

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JULY 2023



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TEST REPORT NO.	RIN/TR/JULY-23/1	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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 <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

PROJECT MANAGER OFFICE		NAUA1					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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
02-07-2023	03-07-2023	249	161	57	20	11	CLOUDY/LIGHT BREEZE
19-07-2023	20-07-2023	288	186	55	21	11	CLOUDY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> 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 $\mu\text{g}/\text{m}^3$ )					
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
03-07-2023	04-07-2023	76	33	16	BDL		CLOUDY/LIGHT BREEZE
19-07-2023	20-07-2023	85	39	15	BDL		CLOUDY/CALM
NAAQS, 2009		100	60	80	80		

COLONY WATER FILTER PLANT NSNU3		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
FROM	TO						
02-07-2023	03-07-2023	71	36	16	BDL		CLOUDY/LIGHT BREEZE
18-07-2023	19-07-2023	86	41	15	BDL		CLOUDY/CALM
NAAQS, 2009		100	60	80	80		

KOTODI VILLAGE NSNU4		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
FROM	TO						
02-07-2023	03-07-2023	90	41	18	BDL		CLOUDY/LIGHT BREEZE
18-07-2023	19-07-2023	85	38	14	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   PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23

MINE WATER DISCHARGE: NAUOW1				
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
03-07-2023	7.72	28	36	BDL
19-07-2023	7.56	24	32	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

*R. Anurupa*

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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

<b>FAN HOUSE: NAUN1</b>		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY'23	10-07-2023	69.3	68.5
JULY'23	28-07-2023	69.2	68.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>MANAGER OFFICE: NAUN2</b>		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY'23	10-07-2023	54.2	53.4
JULY'23	28-07-2023	55.3	54.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY (SAONER): NSNUN4</b>		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY'23	10-07-2023	42.3	41.5
JULY'23	28-07-2023	42.3	41.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

# BHANEGOAN OC

NAGPUR AREA

WESTERN COALFIELDS LTD.


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JULY 2023

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TEST REPORT NO.	RIN/TR/JULY-23/2	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
04-07-2023	05-07-2023	256	151	56	21	BDL	CLOUDY/CALM
18-07-2023	19-07-2023	268	166	54	21	BDL	CLOUDY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> 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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
04-07-2023	05-07-2023	65	32	15	BDL	BDL	CLOUDY/CALM
18-07-2023	19-07-2023	77	35	14	BDL	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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
04-07-2023	05-07-2023	74	33	14	BDL	BDL	CLOUDY/CALM
18-07-2023	19-07-2023	87	37	13	BDL	BDL	CLOUDY/CALM
NAAQS, 2009		100	60	80	80		

DORLI VILLAGE   NSOA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
05-07-2023	06-07-2023	86	38	18	BDL	BDL	CLOUDY/CALM
20-07-2023	21-07-2023	77	32	14	BDL	BDL	CLOUDY/CALM
NAAQS, 2009		100	60	80	80		

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES :	16-07-23 TO 14-08-23

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
04-07-2023	7.02	42	52	BDL
18-07-2023	6.98	40	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**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

CONTRACTOR CAMP		NBON1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	10-07-2023	53.3	52.5
JULY'23	28-07-2023	52.3	51.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>



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NAGPUR AREA

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TEST REPORT NO.	RIN/TR/JULY-23/3	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-07-23 TO 14-08-23	

NEAR SUBSTATION NGOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)	
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>		SO <sub>2</sub>
FROM	TO	5	5	2	6	10	
10-07-2023	11-07-2023	262	154	56	22	12	CLOUDY/CALM
24-07-2023	25-07-2023	278	179	55	23	11	CLOUDY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		<b>600</b>	<b>300</b>	-	<b>120</b>	<b>120</b>	

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)
		PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	2	6	10	
02-07-2023	03-07-2023	62	30	12	BDL	CLOUDY/CALM
03-07-2023	04-07-2023	75	35	16	BDL	CLOUDY/CALM
09-07-2023	10-07-2023	70	31	15	BDL	CLOUDY/CALM
10-07-2023	11-07-2023	77	38	13	BDL	CLOUDY/CALM
16-07-2023	17-07-2023	80	40	16	BDL	CLOUDY/CALM
17-07-2023	18-07-2023	75	39	14	BDL	CLOUDY/CALM
23-07-2023	24-07-2023	82	40	14	BDL	CLOUDY/CALM
24-07-2023	25-07-2023	62	30	13	BDL	CLOUDY/CALM
30-07-2023	31-07-2023	81	37	15	BDL	CLOUDY/CALM
31-07-2023	01-08-2023	78	39	16	BDL	CLOUDY/CALM
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	




COLONY 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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
		5	2	6	10	
02-07-2023	03-07-2023	74	37	14	BDL	CLOUDY/CALM
03-07-2023	04-07-2023	76	36	16	BDL	CLOUDY/CALM
09-07-2023	10-07-2023	73	34	15	BDL	CLOUDY/CALM
10-07-2023	11-07-2023	84	40	13	BDL	CLOUDY/CALM
16-07-2023	17-07-2023	74	42	14	BDL	CLOUDY/CALM
17-07-2023	18-07-2023	64	33	15	BDL	CLOUDY/CALM
23-07-2023	24-07-2023	81	38	14	BDL	CLOUDY/CALM
24-07-2023	25-07-2023	70	36	16	BDL	CLOUDY/CALM
30-07-2023	31-07-2023	80	39	15	BDL	CLOUDY/CALM
31-07-2023	01-08-2023	78	38	14	BDL	CLOUDY/CALM
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	

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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
		5	2	6	10	
02-07-2023	03-07-2023	76	36	15	BDL	CLOUDY/CALM
03-07-2023	04-07-2023	71	32	13	BDL	CLOUDY/CALM
09-07-2023	10-07-2023	84	37	16	BDL	CLOUDY/CALM
10-07-2023	11-07-2023	66	39	14	BDL	CLOUDY/CALM
16-07-2023	17-07-2023	73	35	13	BDL	CLOUDY/CALM
17-07-2023	18-07-2023	81	40	16	BDL	CLOUDY/CALM
23-07-2023	24-07-2023	79	37	15	BDL	CLOUDY/CALM
24-07-2023	25-07-2023	68	41	15	BDL	CLOUDY/CALM
30-07-2023	31-07-2023	75	37	14	BDL	CLOUDY/CALM
31-07-2023	01-08-2023	74	37	16	BDL	CLOUDY/CALM
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	

*R. Annapurna*

Analysed by




<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23

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
10-07-2023	7.70	18	28	BDL
24-07-2023	7.28	16	24	BDL
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
10-07-2023	7.64	24	32	BDL
24-07-2023	7.31	26	36	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6


CHP NGON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY'23	10-07-2023	66.2	65.3
JULY'23	28-07-2023	67.3	66.5
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

GONDEGAON VILLAGE/COLONY NGON2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY'23	10-07-2023	42.3	41.4
JULY'23	28-07-2023	42.2	41.3
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

GHATROHNA VILLAGE: NGON3			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY'23	10-07-2023	42.2	41.5
JULY'23	28-07-2023	42.3	41.5
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

JUNI KAMPTEE VILLAGE: NGON4			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY'23	10-07-2023	42.2	41.3
JULY'23	28-07-2023	42.2	41.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

  
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## ENVIRONMENTAL MONITORING REPORT

### INDER UG TO OC

NAGPUR AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



JULY 2023

Environment Laboratory  
NABL Accredited vide Cert. No. TC-7102  
CMPDI  
REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>		<b>Test Report</b>		 TC-7102
TEST REPORT NO.	RIN/TR/JULY-23/4	DATE OF ISSUE	31-08-2023	
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR			
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)			
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47	
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23	

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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
07-07-2023	08-07-2023	248	169	57	20	11	CLOUDY/CALM
21-07-2023	22-07-2023	283	190	55	21	BDL	CLOUDY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> 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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08-07-2023	09-07-2023	259	161	55	20	12	CLOUDY/CALM
22-07-2023	23-07-2023	282	180	58	21	11	CLOUDY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> 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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
01-07-2023	02-07-2023	77	36	13	BDL	CLOUDY/CALM	
07-07-2023	08-07-2023	67	29	13	BDL	CLOUDY/CALM	
08-07-2023	09-07-2023	71	32	15	BDL	CLOUDY/CALM	
14-07-2023	15-07-2023	92	34	14	BDL	CLOUDY/CALM	
15-07-2023	16-07-2023	69	31	12	BDL	CLOUDY/CALM	
21-07-2023	22-07-2023	90	38	15	BDL	CLOUDY/CALM	
22-07-2023	23-07-2023	68	31	12	BDL	CLOUDY/CALM	
28-07-2023	29-07-2023	75	35	15	BDL	CLOUDY/CALM	
29-07-2023	30-07-2023	74	32	14	BDL	CLOUDY/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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
01-07-2023	02-07-2023	76	38	13	BDL	CLOUDY/CALM	
07-07-2023	08-07-2023	66	33	13	BDL	CLOUDY/CALM	
08-07-2023	09-07-2023	67	32	12	BDL	CLOUDY/CALM	
14-07-2023	15-07-2023	69	32	15	BDL	CLOUDY/CALM	
15-07-2023	16-07-2023	80	35	16	BDL	CLOUDY/CALM	
21-07-2023	22-07-2023	77	33	16	BDL	CLOUDY/CALM	
22-07-2023	23-07-2023	79	39	14	BDL	CLOUDY/CALM	
28-07-2023	29-07-2023	64	30	16	BDL	CLOUDY/CALM	
29-07-2023	30-07-2023	80	34	14	BDL	CLOUDY/CALM	
NAAQS, 2009		100	60	80	80		

*R. Anupama*

Analysed by



<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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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 PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23

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
07-07-2023	7.84	22	36	BDL
21-07-2023	7.33	20	32	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

RC OFFICEE: NION1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	10-07-2023	53.3	52.4
JULY'23	28-07-2023	54.2	53.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>



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## ENVIRONMENTAL MONITORING REPORT

# KAMPTEE DEEP OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



JULY 2023

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/5	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
		5	5	2	6	10	
07-07-2023	08-07-2023	254	155	56	23	12	CLOUDY/CALM
21-07-2023	22-07-2023	278	169	59	22	12	CLOUDY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		<b>600</b>	<b>300</b>	-	<b>120</b>	<b>120</b>	

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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
		5	2	6	10		
01-07-2023	02-07-2023	71	40	16	BDL		CLOUDY/CALM
07-07-2023	08-07-2023	90	32	12	BDL		CLOUDY/CALM
08-07-2023	09-07-2023	86	35	14	BDL		CLOUDY/CALM
14-07-2023	15-07-2023	66	34	13	BDL		CLOUDY/CALM
15-07-2023	16-07-2023	79	40	14	BDL		CLOUDY/CALM
21-07-2023	22-07-2023	90	36	13	BDL		CLOUDY/CALM
22-07-2023	23-07-2023	79	40	14	BDL		CLOUDY/CALM
28-07-2023	29-07-2023	92	35	16	BDL		CLOUDY/CALM
29-07-2023	30-07-2023	83	36	15	BDL		CLOUDY/CALM
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>		

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)
		PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	2	6	10	
01-07-2023	02-07-2023	77	36	13	BDL	CLOUDY/CALM
07-07-2023	08-07-2023	67	29	13	BDL	CLOUDY/CALM
08-07-2023	09-07-2023	71	32	15	BDL	CLOUDY/CALM
14-07-2023	15-07-2023	92	34	14	BDL	CLOUDY/CALM
15-07-2023	16-07-2023	69	31	12	BDL	CLOUDY/CALM
21-07-2023	22-07-2023	90	38	15	BDL	CLOUDY/CALM
22-07-2023	23-07-2023	68	31	12	BDL	CLOUDY/CALM
28-07-2023	29-07-2023	75	35	15	BDL	CLOUDY/CALM
29-07-2023	30-07-2023	74	32	14	BDL	CLOUDY/CALM
NAAQS, 2009		<b>100</b>		<b>80</b>	<b>80</b>	

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)
		PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	2	6	10	
01-07-2023	02-07-2023	76	38	13	BDL	CLOUDY/CALM
07-07-2023	08-07-2023	66	33	13	BDL	CLOUDY/CALM
08-07-2023	09-07-2023	67	32	12	BDL	CLOUDY/CALM
14-07-2023	15-07-2023	69	32	15	BDL	CLOUDY/CALM
15-07-2023	16-07-2023	80	35	16	BDL	CLOUDY/CALM
21-07-2023	22-07-2023	77	33	16	BDL	CLOUDY/CALM
22-07-2023	23-07-2023	79	39	14	BDL	CLOUDY/CALM
28-07-2023	29-07-2023	64	30	16	BDL	CLOUDY/CALM
29-07-2023	30-07-2023	80	34	14	BDL	CLOUDY/CALM
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	

*R. Anupama*

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23

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
07-07-2023	7.78	20	32	BDL
21-07-2023	7.28	22	36	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

ETP DISCHARGE: NKCW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
07-07-2023	7.76	28	36	BDL
21-07-2023	7.20	24	32	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

*R. Annapurna*

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

CHP: NKC1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	10-07-2023	66.3	65.5
JULY'23	28-07-2023	66.4	65.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY(KAMPTEE): NKC2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	10-07-2023	42.2	41.3
JULY'23	28-07-2023	43.2	42.3
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

### PATANSAONGI UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068




JULY 2023

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/6	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

COLLIERY MANAGER OFFICE   NPTUA1							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
01-07-2023	02-07-2023	276	161	57	22	13	CLOUDY/LIGHT BREEZE
17-07-2023	18-07-2023	292	184	58	23	12	CLOUDY/WINDY
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SADBHAVAN NAGAR (FILTER PLANT)   NPTUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
01-07-2023	02-07-2023	73	34	14	BDL	BDL	CLOUDY/LIGHT BREEZE
17-07-2023	18-07-2023	82	40	15	BDL	BDL	CLOUDY/WINDY
NAAQS, 2009		100	60	80	80		

NEAR LCH QR.   NPTUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
01-07-2023	02-07-2023	82	41	16	BDL	BDL	CLOUDY/LIGHT BREEZE
17-07-2023	18-07-2023	77	36	15	BDL	BDL	CLOUDY/WINDY
NAAQS, 2009		100	60	80	80		

SAVARMENDHA /TANDULWADI VILLAGE.   NPTUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
01-07-2023	02-07-2023	81	36	15	BDL	BDL	CLOUDY/LIGHT BREEZE
17-07-2023	18-07-2023	86	38	16	BDL	BDL	CLOUDY/WINDY
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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES :	16-07-23 TO 14-08-23

MINE DISCHARGE: NPTUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
<b>DETECTION LIMIT</b>	<b>2</b>	<b>10</b>	<b>4</b>	<b>2</b>
01-07-2023	7.86	20	28	BDL
17-07-2023	7.78	18	24	BDL
<b>STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000</b>	<b>5.5 - 9.0</b>	<b>100</b>	<b>250</b>	<b>10</b>

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**NOISE LEVEL MONITORING DATA**

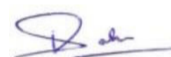
SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

CHP: NPTUN1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	10-07-2023	67.3	66.4
JULY'23	28-07-2023	66.3	65.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY: NPTUN2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	10-07-2023	42.2	41.3
JULY'23	28-07-2023	42.2	41.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

### SAONER UG

NAGPUR AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



JULY 2023

Environment Laboratory  
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/8	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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 <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
02-07-2023	03-07-2023	258	171	57	22	12	CLOUDY/LIGHT BREEZE
18-07-2023	19-07-2023	282	191	55	23	12	RAINY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> 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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
02-07-2023	03-07-2023	269	162	56	21	12	CLOUDY/LIGHT BREEZE
18-07-2023	19-07-2023	288	182	54	22	11	RAINY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> 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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
02-07-2023	03-07-2023	71	36	16	BDL	BDL	CLOUDY/LIGHT BREEZE
18-07-2023	19-07-2023	86	41	15	BDL	BDL	RAINY/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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
02-07-2023	03-07-2023	90	41	18	BDL	BDL	CLOUDY/LIGHT BREEZE
18-07-2023	19-07-2023	85	38	14	BDL	BDL	RAINY/CALM
NAAQS, 2009		100	60	80	80		

*R. Anurupa*

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-07-23 TO 14-08-23	

CHP   NSNUF1					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )		ENVIRONMENT CONDITIONS (Sky/Wind)	
		SPM	PM <sub>10</sub>		
FROM	TO	5	5		
04-07-2023	05-07-2023	355	215	CLOUDY / LIGHT BREEZE	

RAILWAY SIDING   NSNUF2					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )		ENVIRONMENT CONDITIONS (Sky/Wind)	
		SPM	PM <sub>10</sub>		
FROM	TO	5	5		
04-07-2023	05-07-2023	284	228	CLOUDY / LIGHT 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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23

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
04-07-2023	7.76	20	28	BDL
19-07-2023	7.24	18	24	BDL
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
04-07-2023	7.62	18	28	BDL
19-07-2023	7.42	16	24	BDL
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
04-07-2023	7.82	16	24	BDL
19-07-2023	7.53	14	20	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

*R. Annapurna*

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

FAN HOUSE-I: NSNUN1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	10-07-2023	69.2	68.5
JULY'23	28-07-2023	69.2	68.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

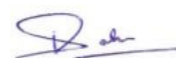
FAN HOUSE-II: NSNUN2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	10-07-2023	69.4	68.6
JULY'23	28-07-2023	69.2	68.5
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

FAN HOUSE-III: NSNUN3			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	10-07-2023	69.3	68.4
JULY'23	28-07-2023	68.3	67.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY: NSNUN4			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	10-07-2023	42.3	41.5
JULY'23	28-07-2023	42.3	41.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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# ENVIRONMENTAL MONITORING REPORT

## SILEWARA UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068




JULY 2023



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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/9	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

WATER FILTER FLANT NSUA1							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
06-07-2023	07-07-2023	256	157	56	23	11	CLOUDY/CALM
19-07-2023	20-07-2023	267	171	60	22	12	CLOUDY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

V.T.C. SILEWARA NSUA2							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
06-07-2023	07-07-2023	258	160	57	23	12	CLOUDY/CALM
19-07-2023	20-07-2023	273	172	59	22	11	CLOUDY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

MANDIR NEAR KANHAN RIVER NSUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
06-07-2023	07-07-2023	86	40	18	BDL	CLOUDY/CALM	
19-07-2023	20-07-2023	72	34	14	BDL	CLOUDY/CALM	
NAAQS, 2009		100	60	80	80		

CHANKAPUR PUMP HOUSE/ COLONY NSUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
06-07-2023	07-07-2023	89	41	17	BDL	CLOUDY/CALM	
19-07-2023	20-07-2023	76	34	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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES :	16-07-23 TO 14-08-23

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
06-07-2023	7.14	20	24	BDL
19-07-2023	7.48	38	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**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

<b>FAN HOUSE: NSUN1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	10-07-2023	69.2	68.4
JULY'23	28-07-2023	69.3	68.5
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY(SILEWARA): NSUN2</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	10-07-2023	42.3	41.5
JULY'23	28-07-2023	42.2	41.3
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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### SINGORI OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



JULY 2023

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TEST REPORT NO.	RIN/TR/JULY-23/10	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
05-07-2023	06-07-2023	269	160	57	22	12	CLOUDY/CALM
20-07-2023	21-07-2023	280	179	58	21	11	CLOUDY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		<b>600</b>	<b>300</b>	-	<b>120</b>	<b>120</b>	

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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
05-07-2023	06-07-2023	82	38	16	BDL	CLOUDY/CALM	
20-07-2023	21-07-2023	76	29	15	BDL	CLOUDY/CALM	
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>		


HINGNA VILLAGE   NSOA3							
DATE(dd:mm:yy) OF SAMPLING		SPM				ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
05-07-2023	06-07-2023	92	41	18	BDL	CLOUDY/CALM	
20-07-2023	21-07-2023	80	32	15	BDL	CLOUDY/CALM	
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>		

DORLI VILLAGE   NSOA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
05-07-2023	06-07-2023	86	38	18	BDL	CLOUDY/CALM	
20-07-2023	21-07-2023	77	32	14	BDL	CLOUDY/CALM	
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>		

*R. Anurupa*

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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23

MINE WATER DISCHARGE: NSOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
<b>DETECTION LIMIT</b>	<b>2</b>	<b>10</b>	<b>4</b>	<b>2</b>
05-07-2023	7.18	48	56	BDL
20-07-2023	7.24	46	52	BDL
<b>STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000</b>	<b>5.5 - 9.0</b>	<b>100</b>	<b>250</b>	<b>10</b>

*R. Anupurna*

Analysed by



<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

CONTRACTOR CAMP: NSON1		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY'23	10-07-2023	54.2	53.4
JULY'23	28-07-2023	53.3	52.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

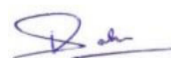
SOHALI VILLAGE: NSON2		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY'23	10-07-2023	42.3	41.4
JULY'23	28-07-2023	42.2	41.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

NEAR DRILING SITE: NSON3		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY'23	10-07-2023	68.2	67.5
JULY'23	28-07-2023	67.2	66.5
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

NEAR DOSING SITE: NSON4		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY'23	10-07-2023	67.3	66.4
JULY'23	28-07-2023	66.3	65.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>



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## ENVIRONMENTAL MONITORING REPORT

### WAGHODA - UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



JULY 2023

Environment Laboratory  
NABL Accredited vide Cert. No. TC-7102  
CMPDI  
REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/7	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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 <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

MANAGER OFFICE   NWUA1							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
		5	5	2	6	10	
03-07-2023	04-07-2023	256	172	56	21	11	CLOUDY/LIGHT BREEZE
19-07-2023	20-07-2023	291	189	53	23	11	CLOUDY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

AJANI VILLAGE   BNWUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
		5	2	6	10		
03-07-2023	04-07-2023	79	34	16	BDL		CLOUDY/LIGHT BREEZE
19-07-2023	20-07-2023	86	38	15	BDL		CLOUDY/CALM
NAAQS, 2009		100	60	80	80		

ADASA VILLAGE   BNWUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
		5	2	6	10		
03-07-2023	04-07-2023	76	34	15	BDL		CLOUDY/LIGHT BREEZE
20-07-2023	21-07-2023	90	41	14	BDL		CLOUDY/CALM
NAAQS, 2009		100	60	80	80		

BORGAON VILLAGE   BNWUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
		5	2	6	10		
03-07-2023	04-07-2023	79	31	18	BDL		CLOUDY/LIGHT BREEZE
20-07-2023	21-07-2023	88	37	15	BDL		CLOUDY/CALM
NAAQS, 2009		100	60	80	80		

*R. Anupama*

Analysed by

<b>DHAPEWADA VILLAGE   BNWUA5</b>						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)
		<b>PM<sub>10</sub></b>	<b>PM<sub>2.5</sub></b>	<b>NO<sub>2</sub></b>	<b>SO<sub>2</sub></b>	
FROM	TO	5	2	6	10	
04-07-2023	05-07-2023	79	34	16	BDL	CLOUDY/LIGHT BREEZE
20-07-2023	21-07-2023	90	38	15	BDL	CLOUDY/CALM
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	

<b>TAKLI VILLAGE   BNWUA6</b>						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)
		<b>PM<sub>10</sub></b>	<b>PM<sub>2.5</sub></b>	<b>NO<sub>2</sub></b>	<b>SO<sub>2</sub></b>	
FROM	TO	5	2	6	10	
04-07-2023	05-07-2023	76	35	15	BDL	CLOUDY/LIGHT BREEZE
20-07-2023	21-07-2023	89	40	16	BDL	CLOUDY/CALM
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	

<b>SAWANGI VILLAGE   BNWUA7</b>						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)
		<b>PM<sub>10</sub></b>	<b>PM<sub>2.5</sub></b>	<b>NO<sub>2</sub></b>	<b>SO<sub>2</sub></b>	
FROM	TO	5	2	6	10	
04-07-2023	05-07-2023	89	35	16	BDL	CLOUDY/LIGHT BREEZE
20-07-2023	21-07-2023	82	38	15	BDL	CLOUDY/CALM
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	

*R. Anupama*  
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23

MINE WATER DISCHARGE: NWUW1				
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
03-07-2023	7.02	16	24	BDL
19-07-2023	7.22	18	28	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

*R. Annapurna*

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

AJANI VILLAGE		NWUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	10-07-2023	42.2	41.4
JULY'23	28-07-2023	42.2	41.5
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

ADASA VILLAGE		NWUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	10-07-2023	42.3	41.5
JULY'23	28-07-2023	42.3	41.8
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

BORGAON VILLAGE		NWUN3	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	10-07-2023	42.2	41.3
JULY'23	28-07-2023	42.4	41.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

DHAPEWADA VILLAGE		NWUN4	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	10-07-2023	42.4	41.6
JULY'23	28-07-2023	42.2	41.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

TAKLI VILLAGE		NWUN5	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	10-07-2023	42.3	41.6
JULY'23	28-07-2023	42.1	41.5
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

SAWANGI VILLAGE		NWUN6	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	10-07-2023	42.2	41.5
JULY'23	28-07-2023	43.2	42.5
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

NEAR MANAGER OFFICE		NWUN7	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	10-07-2023	52.3	51.4
JULY'23	28-07-2023	53.3	52.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

### DINESH OCP

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



JULY 2023


Environment Laboratory

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REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/11	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

MANAGER OFFICE   UM30A1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
10-07-2023	11-07-2023	278	168	44	13	11	Cloudy / Calm
16-07-2023	17-07-2023	285	172	42	12	10	Cloudy / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		<b>600</b>	<b>300</b>	-	<b>120</b>	<b>120</b>	

NEAR RLY. WEIGHT BRIDGE   UM30A2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
10-07-2023	11-07-2023	265	166	46	14	11	Cloudy / Calm
16-07-2023	17-07-2023	255	153	48	13	10	Cloudy / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		<b>600</b>	<b>300</b>	-	<b>120</b>	<b>120</b>	

PIPARDOL VILLAGE   UM30A3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
FROM	TO	5	2	6	10		
01-07-2023	02-07-2023	64	26	8	BDL	Cloudy / Calm	
07-07-2023	08-07-2023	68	28	9	BDL	Cloudy / Calm	
08-07-2023	09-07-2023	60	27	8	BDL	Cloudy / Calm	
14-07-2023	15-07-2023	62	26	7	BDL	Cloudy / Calm	
21-07-2023	22-07-2023	68	28	8	BDL	Cloudy / Calm	
22-07-2023	23-07-2023	66	25	6	BDL	Cloudy / Calm	
28-07-2023	29-07-2023	68	24	7	BDL	Cloudy / Calm	
29-07-2023	30-07-2023	64	22	6	BDL	Cloudy / Calm	
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>		

WELSAKARA VILLAGE   UM30A4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
FROM	TO	5	2	6	10		
01-07-2023	02-07-2023	66	27	9	BDL	Cloudy / Calm	
07-07-2023	08-07-2023	62	24	7	BDL	Cloudy / Calm	
08-07-2023	09-07-2023	60	22	6	BDL	Cloudy / Calm	
14-07-2023	15-07-2023	56	22	6	BDL	Cloudy / Calm	
21-07-2023	22-07-2023	68	28	9	BDL	Cloudy / Calm	
22-07-2023	23-07-2023	66	26	8	BDL	Cloudy / Calm	
28-07-2023	29-07-2023	60	24	7	BDL	Cloudy / Calm	
29-07-2023	30-07-2023	58	22	6	BDL	Cloudy / Calm	
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>		

*J. Shrivastava*

Analysed by

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23

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
07-07-2023	8.23	30	40	BDL
17-07-2023	7.52	26	36	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
07-07-2023	7.14	22	32	BDL
17-07-2023	7.05	34	44	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

*J. Shrivastava*

Analysed by

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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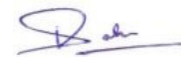
**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JUNE-2015
SAMPLING METHOD	LSOP 6

PIT OFFICE   UGON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
JULY'2023	10-07-2023	54.3	53.5
JULY'2023	24-07-2023	53.7	52.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>



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## ENVIRONMENTAL MONITORING REPORT

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WESTERN COALFIELDS LTD.

JOB NO. 4094423068



JULY 2023

Environment Laboratory

**CMPDI**

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/12	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

CONTRACTOR CAMP UGOA1							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09-07-2023	10-07-2023	272	152	36	14	11	Cloudy / Calm
17-07-2023	18-07-2023	279	187	42	12	10	Cloudy / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		<b>600</b>	<b>300</b>	-	<b>120</b>	<b>120</b>	

BESUR VILLAGE UGOA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
02-07-2023	03-07-2023	60	28	9	BDL	Cloudy / Calm	
03-07-2023	04-07-2023	62	30	9	BDL	Cloudy / Calm	
09-07-2023	10-07-2023	64	26	7	BDL	Cloudy / Calm	
10-07-2023	11-07-2023	66	28	8	BDL	Cloudy / Calm	
16-07-2023	17-07-2023	62	24	6	BDL	Cloudy / Calm	
17-07-2023	18-07-2023	60	22	6	BDL	Cloudy / Calm	
23-07-2023	24-07-2023	65	24	7	BDL	Cloudy / Calm	
24-07-2023	25-07-2023	68	28	8	BDL	Cloudy / Calm	
30-07-2023	31-07-2023	60	26	7	BDL	Cloudy / Calm	
31-07-2023	01-08-2023	66	24	6	BDL	Cloudy / Calm	
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>		

NAND VILLAGE UGOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
02-07-2023	03-07-2023	66	28	9	BDL	Cloudy / Calm	
03-07-2023	04-07-2023	56	26	8	BDL	Cloudy / Calm	
09-07-2023	10-07-2023	52	24	7	BDL	Cloudy / Calm	
10-07-2023	11-07-2023	56	26	8	BDL	Cloudy / Calm	
16-07-2023	17-07-2023	48	22	6	BDL	Cloudy / Calm	
17-07-2023	18-07-2023	54	24	7	BDL	Cloudy / Calm	
23-07-2023	24-07-2023	62	26	8	BDL	Cloudy / Calm	
24-07-2023	25-07-2023	56	24	6	BDL	Cloudy / Calm	
30-07-2023	31-07-2023	54	26	7	BDL	Cloudy / Calm	
31-07-2023	01-08-2023	58	28	8	BDL	Cloudy / Calm	
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>		

		POLGAON VILLAGE UGOA4				
DATE(dd:mm:yy) AND TIME (12 hr format) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)
		PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	2	6	10	
02-07-2023	03-07-2023	56	24	7	BDL	Cloudy / Calm
03-07-2023	04-07-2023	58	26	8	BDL	Cloudy / Calm
09-07-2023	10-07-2023	54	22	6	BDL	Cloudy / Calm
10-07-2023	11-07-2023	50	20	6	BDL	Cloudy / Calm
16-07-2023	17-07-2023	54	24	7	BDL	Cloudy / Calm
17-07-2023	18-07-2023	56	26	8	BDL	Cloudy / Calm
23-07-2023	24-07-2023	65	28	9	BDL	Cloudy / Calm
24-07-2023	25-07-2023	66	22	6	BDL	Cloudy / Calm
30-07-2023	31-07-2023	58	24	7	BDL	Cloudy / Calm
31-07-2023	01-08-2023	56	20	6	BDL	Cloudy / Calm
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>		

*J. Shrivastava*

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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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 PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23

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
02-07-2023	8.15	26	36	BDL
23-07-2023	7.65	30	40	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
02-07-2023	7.28	22	32	BDL
23-07-2023	7.06	34	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**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JUNE-2015
SAMPLING METHOD	LSOP 6

PIT OFFICE: UGON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
		<b>20</b>	<b>20</b>
JULY'2023	10-07-2023	53.3	52.5
JULY'2023	24-07-2023	53.5	52.1
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

CONTRACTOR CAMP: UGON2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
		<b>20</b>	<b>20</b>
JULY'2023	10-07-2023	52.4	51.6
JULY'2023	24-07-2023	52.9	51.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>



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## ENVIRONMENTAL MONITORING REPORT

# MAKARDHOKRA-II OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068




JULY 2023

Environment Laboratory

**CMPDI**

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

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/14	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
13-07-2023	14-07-2023	265	165	38	14	11	Cloudy / Calm
27-07-2023	28-07-2023	276	167	44	13	10	Cloudy / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> 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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
13-07-2023	14-07-2023	245	145	36	15	11	Cloudy / Calm
27-07-2023	28-07-2023	235	134	32	13	10	Cloudy / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

KANWA VILLAGE		UUAO3				
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
11-07-2023	12-07-2023	65	28	9	BDL	Cloudy / Calm
25-07-2023	26-07-2023	72	26	8	BDL	Cloudy / Calm
NAAQS, 2009		100	60	80	80	

NEAR PUMP HOUSE COLONY		UUAO4				
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
11-07-2023	12-07-2023	75	32	8	BDL	Cloudy / Calm
25-07-2023	26-07-2023	70	28	7	BDL	Cloudy / Calm
NAAQS, 2009		100	60	80	80	

*J. Shrivastava*

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JUNE-2015
SAMPLING METHOD	LSOP 6

NEAR PIT OFFICE: UMON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	NOISE LEVEL IN dB(A)
		DAY TIME	DAY TIME
	<b>DETECTION LIMIT</b>	<b>20</b>	<b>20</b>
JULY'23	10-07-2023	53.2	52.5
JULY'23	24-04-2023	54.6	53.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>



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## ENVIRONMENTAL MONITORING REPORT

### MAKARDHOKRA-I OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



JULY 2023

Environment Laboratory

**CMPDI**

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/34	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09-07-2023	10-07-2023	256	158	42	13	11	Cloudy / Calm
17-07-2023	18-07-2023	267	168	44	12	10	Cloudy / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> 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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
01-07-2023	02-07-2023	70	28	9	BDL	Cloudy / Calm
07-07-2023	08-07-2023	65	26	8	BDL	Cloudy / Calm
08-07-2023	09-07-2023	60	24	7	BDL	Cloudy / Calm
14-07-2023	15-07-2023	76	28	8	BDL	Cloudy / Calm
15-07-2023	16-07-2023	62	26	7	BDL	Cloudy / Calm
21-07-2023	22-07-2023	72	27	8	BDL	Cloudy / Calm
22-07-2023	23-07-2023	60	24	7	BDL	Cloudy / Calm
28-07-2023	29-07-2023	78	26	9	BDL	Cloudy / Calm
29-07-2023	30-07-2023	67	24	8	BDL	Cloudy / 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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
01-07-2023	02-07-2023	72	26	8	BDL	Cloudy / Calm
07-07-2023	08-07-2023	76	28	9	BDL	Cloudy / Calm
08-07-2023	09-07-2023	68	24	7	BDL	Cloudy / Calm
14-07-2023	15-07-2023	62	22	6	BDL	Cloudy / Calm
15-07-2023	16-07-2023	74	26	6	BDL	Cloudy / Calm
21-07-2023	22-07-2023	76	28	9	BDL	Cloudy / Calm
22-07-2023	23-07-2023	64	24	7	BDL	Cloudy / Calm
28-07-2023	29-07-2023	66	27	8	BDL	Cloudy / Calm
29-07-2023	30-07-2023	72	28	8	BDL	Cloudy / Calm
NAAQS, 2009		100	60	80	80	

KHURSAPUR VILLAGE UM10A4						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)
		PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	2	6	10	
01-07-2023	02-07-2023	62	26	8	BDL	Cloudy / Calm
07-07-2023	08-07-2023	65	28	9	BDL	Cloudy / Calm
08-07-2023	09-07-2023	72	29	9	BDL	Cloudy / Calm
14-07-2023	15-07-2023	74	30	7	BDL	Cloudy / Calm
15-07-2023	16-07-2023	76	32	8	BDL	Cloudy / Calm
21-07-2023	22-07-2023	68	28	9	BDL	Cloudy / Calm
22-07-2023	23-07-2023	70	30	8	BDL	Cloudy / Calm
28-07-2023	29-07-2023	63	26	7	BDL	Cloudy / Calm
29-07-2023	30-07-2023	78	32	9	BDL	Cloudy / Calm
NAAQS, 2009		100	60	80	80	
HEOTI VILLAGE UM10A5						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)
		PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	2	6	10	
01-07-2023	02-07-2023	76	28	7	BDL	Cloudy / Calm
07-07-2023	08-07-2023	64	22	6	BDL	Cloudy / Calm
08-07-2023	09-07-2023	68	26	7	BDL	Cloudy / Calm
14-07-2023	15-07-2023	69	27	8	BDL	Cloudy / Calm
15-07-2023	16-07-2023	58	24	6	BDL	Cloudy / Calm
21-07-2023	22-07-2023	60	24	7	BDL	Cloudy / Calm
22-07-2023	23-07-2023	66	28	8	BDL	Cloudy / Calm
28-07-2023	29-07-2023	72	30	9	BDL	Cloudy / Calm
29-07-2023	30-07-2023	70	28	8	BDL	Cloudy / Calm
NAAQS, 2009		100	60	80	80	

*J. Shrivastava*

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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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 PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23

MINE WATER DISCHARGE: UM10W1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
02-07-2023	8.32	26	36	BDL
22-07-2023	7.77	28	40	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

ETP: UM10W2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
02-07-2023	8.14	22	32	BDL
22-07-2023	7.32	30	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**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JUNE-2015
SAMPLING METHOD	LSOP 6

PIT OFFICE: UM10N1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'2023	10-07-2023	54.4	53.6
JULY'2023	24-07-2023	54.8	53.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

SIRPUR VILLAGE: UM10N2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'2023	10-07-2023	42.3	41.6
JULY'2023	24-07-2023	42.8	41.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

HEOTI VILLAGE: UM10N3			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'2023	10-07-2023	42.2	41.4
JULY'2023	24-07-2023	43.2	42.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45



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## ENVIRONMENTAL MONITORING REPORT

# MORPAR UG

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068




JULY 2023

Environment Laboratory

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/15	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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 <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

NEAR PIT OFFICE   UMUA1							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
12-07-2023	13-07-2023	232	132	44	14	10	Cloudy / Calm
26-07-2023	27-07-2023	224	127	38	11	BDL	Cloudy / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

NEAR MAGAZINE BUILDING   UMUA2							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
12-07-2023	13-07-2023	241	138	42	11	BDL	Cloudy / Calm
26-07-2023	27-07-2023	236	140	32	10	BDL	Cloudy / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	14	120	

COLONY (MURPAR UG)   UMUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
12-07-2023	13-07-2023	75	30	8	BDL	Cloudy / Calm	
26-07-2023	27-07-2023	72	28	7	BDL	Cloudy / Calm	
NAAQS, 2009		100	60	80	80		

MORPAR VILLAGE   UMUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
12-07-2023	13-07-2023	56	32	9	BDL	Cloudy / Calm	
26-07-2023	27-07-2023	60	31	8	BDL	Cloudy / Calm	
NAAQS, 2009		100	60	80	80		

*J. Shrivastava*

Analysed by

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JUNE-2015
SAMPLING METHOD	LSOP 6

FAN HOUSE:		UMUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	Night time
JULY'2023	10-07-2023	58.2	57.3
JULY'2023	24-07-2023	55.2	54.3
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
JULY'2023	10-07-2023	42.2	41.3
JULY'2023	24-07-2023	42.6	41.8
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45



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## ENVIRONMENTAL MONITORING REPORT

### UMRER OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068




JULY 2023

Environment Laboratory

**CMPDI**

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

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>		<b>Test Report</b>			
TEST REPORT NO.	RIN/TR/JULY-23/16	DATE OF ISSUE	31-08-2023		
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR				
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)				
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :		LQR 47	
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:			16-07-23 TO 14-08-23	

UMRER MANAGER OFFICE   UUOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
11-07-2023	12-07-2023	265	163	38	13	10	Cloudy / Calm
25-07-2023	26-07-2023	235	145	32	11	BDL	Cloudy / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		<b>600</b>	<b>300</b>	-	<b>120</b>	<b>120</b>	


NEAR WORKSHOP   UUOA2							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
11-07-2023	12-07-2023	246	145	45	14	11	Cloudy / Calm
25-07-2023	26-07-2023	255	152	48	13	10	Cloudy / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		<b>600</b>	<b>300</b>	-	<b>120</b>	<b>120</b>	

KANWA VILLAGE   UUOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
11-07-2023	12-07-2023	65	28	9	BDL	Cloudy / Calm	
25-07-2023	26-07-2023	72	26	8	BDL	Cloudy / Calm	
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>		

NEAR PUMP HOUSE COLONY   UUOA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
11-07-2023	12-07-2023	75	32	8	BDL	Cloudy / Calm	
25-07-2023	26-07-2023	70	28	7	BDL	Cloudy / Calm	
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>		

*J. Shrivastava*

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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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   PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23

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
11-07-2023	7.58	32	44	BDL
25-07-2023	7.65	30	40	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
11-07-2023	7.23	26	36	BDL
25-07-2023	7.35	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
11-07-2023	28	11
25-07-2023	24	12
GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS GSR 801E EPA 1993	100	30

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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JUNE-2015
SAMPLING METHOD	LSOP 6

CHP: UUON1		NOISE LEVEL IN dB(A)	NOISE LEVEL IN dB(A)
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
		DETECTION LIMIT	<b>20</b>
JULY'2023	10-07-2023	67.3	66.5
JULY'2023	24-07-2023	67.1	66.3
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY UUON2		NOISE LEVEL IN dB(A)	NOISE LEVEL IN dB(A)
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
		DETECTION LIMIT	<b>20</b>
JULY'2023	10-07-2023	42.2	41.4
JULY'2023	24-07-2023	42.9	41.7
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

  
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## ENVIRONMENTAL MONITORING REPORT

### GHUGUS OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068




JULY 2023

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/17	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

ACC PATCH NEAR ACC COLONY   WGOA1							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
11-07-2023	12-07-2023	291	184	61	23	11	CLEAR / CALM
24-07-2023	25-07-2023	269	152	56	21	BDL	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		<b>600</b>	<b>300</b>	-	<b>120</b>	<b>120</b>	

SAM OFFICE   WGOA2							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
11-07-2023	12-07-2023	284	189	63	23	11	CLEAR / CALM
24-07-2023	25-07-2023	262	172	56	19	BDL	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		<b>600</b>	<b>300</b>	-	<b>120</b>	<b>120</b>	

RAM NAGAR COLONY   WGOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
11-07-2023	12-07-2023	82	38	15	BDL	BDL	CLEAR / CALM
24-07-2023	25-07-2023	76	41	14	BDL	BDL	CLOUDY / CALM
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>		

GHUGUS VILLAGE (GP OFFICE)   WGOA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
11-07-2023	12-07-2023	79	41	15	BDL	BDL	CLEAR / CALM
24-07-2023	25-07-2023	68	36	17	BDL	BDL	CLOUDY / CALM
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>		

  
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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-07-23 TO 14-08-23	

CHP: WGOF1				
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )		ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	
FROM	TO	5	5	
12-07-2023	13-07-2023	458	231	CLEAR / CALM

RAILWAY SIDING: WGOF2				
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )		ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	
FROM	TO	5	5	
12-07-2023	13-07-2023	478	258	CLEAR / CALM



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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

<b>CHP: WGON1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	12-07-2023	68.7	66.6
JULY'23	28-07-2023	69.9	68.5
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY(GHUGUS): WGON2</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	12-07-2023	46.4	44.5
JULY'23	28-07-2023	47.4	46.3
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

### KOLGAON OC

WANI AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



JULY 2023

Environment Laboratory  
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/18	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

MANAGER OFFICE   WKOA1							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
10-07-2023	11-07-2023	284	191	57	23	11	CLEAR / CALM
26-07-2023	27-07-2023	269	172	63	21	BDL	CLEAR / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SAM OFFICE   WMOA2							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
06-07-2023	07-07-2023	294	192	58	21	13	RAINY / CALM
20-07-2023	21-07-2023	271	183	54	19	12	RAINY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

KOLGAON VILLAGE   WKOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
10-07-2023	11-07-2023	81	41	17	11	CLEAR / CALM	
26-07-2023	27-07-2023	73	34	15	BDL	CLEAR / CALM	
NAAQS, 2009		100	60	80	80		

KAILSHNAGAR TOWNSHIP - FILTER PLANT   WMOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
05-07-2023	06-07-2023	70	32	15	BDL	RAINY / CALM	
07-07-2023	08-07-2023	73	33	17	BDL	RAINY / CALM	
12-07-2023	13-07-2023	68	28	16	BDL	RAINY / CALM	
13-07-2023	14-07-2023	69	34	14	BDL	RAINY / CALM	
21-07-2023	22-07-2023	72	32	13	BDL	RAINY / CALM	
22-07-2023	23-07-2023	76	26	16	BDL	RAINY / CALM	
27-07-2023	28-07-2023	81	37	17	BDL	CLOUDY / CALM	
28-07-2023	29-07-2023	83	42	15	BDL	CLOUDY / 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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-07-23 TO 14-08-23	

W BRIDGE: WGKF1				
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )		ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	
FROM	TO			
12-07-2023	13-07-2023	482	268	CLEAR / 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 PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23

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
10-07-2023	5.88	40	36	BDL
20-07-2023	7.84	48	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**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

<b>MANAGER OFFICE: WKON1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	12-07-2023	56.7	54.5
JULY'23	28-07-2023	57.5	56.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY(MUNGOLI): WKON2</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	12-07-2023	46.5	44.3
JULY'23	28-07-2023	46.5	45.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

  
Amol Kamble  
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## ENVIRONMENTAL MONITORING REPORT

### MUGOLI OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



JULY 2023

**Environment Laboratory**  
**NABL Accredited vide Cert. No. TC-7102**  
CMPDI  
REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/19	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

SUBSTATION WMOA1							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
06-07-2023	07-07-2023	289	197	61	23	11	RAINY / CALM
20-07-2023	21-07-2023	271	181	57	21	BDL	RAINY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		<b>600</b>	<b>300</b>	-	<b>120</b>	<b>120</b>	

SAM OFFICE WMOA2							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
06-07-2023	07-07-2023	294	192	58	21	13	RAINY / CALM
20-07-2023	21-07-2023	271	183	54	19	12	RAINY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		<b>600</b>	<b>300</b>	-	<b>120</b>	<b>120</b>	

KAILSHNAGAR TOWNSHIP - FILTER PLANT WMOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
05-07-2023	06-07-2023	70	32	15	BDL	RAINY / CALM	
07-07-2023	08-07-2023	73	33	17	BDL	RAINY / CALM	
12-07-2023	13-07-2023	68	28	16	BDL	RAINY / CALM	
13-07-2023	14-07-2023	69	34	14	BDL	RAINY / CALM	
21-07-2023	22-07-2023	72	32	13	BDL	RAINY / CALM	
22-07-2023	23-07-2023	76	26	16	BDL	RAINY / CALM	
27-07-2023	28-07-2023	81	37	17	BDL	CLOUDY / CALM	
28-07-2023	29-07-2023	83	42	15	BDL	CLOUDY / CALM	
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>		

TUBEWELL NEAR SAKHARA VILLAGE WMOA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
05-07-2023	06-07-2023	72	31	14	BDL	RAINY / CALM	
07-07-2023	08-07-2023	75	28	16	BDL	RAINY / CALM	
12-07-2023	13-07-2023	70	26	15	BDL	RAINY / CALM	
13-07-2023	14-07-2023	71	32	13	BDL	RAINY / CALM	
21-07-2023	22-07-2023	74	34	17	BDL	RAINY / CALM	
22-07-2023	23-07-2023	89	38	15	BDL	RAINY / CALM	
27-07-2023	28-07-2023	83	41	16	BDL	CLOUDY / CALM	
28-07-2023	29-07-2023	80	39	15	BDL	CLOUDY / CALM	
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>		



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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-07-23 TO 14-08-23	

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 <sub>10</sub>	
14-07-2023	15-07-2023	462	297	CLEAR / CALM



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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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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 PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23

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
06-07-2023	7.48	42	36	BDL
20-07-2023	8.12	38	48	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
06-07-2023	7.52	38	32	BDL
20-07-2023	7.98	32	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**

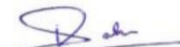
SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

CHP: WMON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
JULY'23	12-07-2023	67.5	65.2
JULY'23	28-07-2023	68.4	67.3
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY(MUNGOLI): WMON2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
JULY'23	12-07-2023	46.5	44.3
JULY'23	28-07-2023	46.5	45.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

### NAIGAON OC

WANI AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



JULY 2023

Environment Laboratory  
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>		<b>Test Report</b>		 TC-7102	
TEST REPORT NO.	RIN/TR/JULY-23/20	DATE OF ISSUE	31-08-2023		
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR				
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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 <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)				
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47		
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-07-23 TO 14-08-23			

SAM OFFICE WNGOA1							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08-07-2023	09-07-2023	296	187	56	21	12	CLEAR / CALM
23-07-2023	24-07-2023	271	168	53	19	11	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		<b>600</b>	<b>300</b>	-	<b>120</b>	<b>120</b>	

WORKSHOP ETP NOCM WNOA2							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
06-07-2023	07-07-2023	283	183	63	23	11	RAINY / CALM
20-07-2023	21-07-2023	273	162	58	21	BDL	RAINY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		<b>600</b>	<b>300</b>	<b>60</b>	<b>120</b>	<b>120</b>	

BELLORA REHABILITATION VILLAGE WNGOA2						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08-07-2023	09-07-2023	87	37	16	BDL	CLEAR / CALM
23-07-2023	24-07-2023	76	34	13	BDL	CLOUDY / CALM
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	

FILTER PLANT NEAR VIP GUEST HOUSE WNGOA3						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08-07-2023	09-07-2023	89	41	17	BDL	CLEAR / CALM
23-07-2023	24-07-2023	74	38	15	BDL	CLOUDY / CALM
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	

  
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 <small>TC-7102</small>
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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-07-23 TO 14-08-23	

DATE(dd:mm:yy) OF SAMPLING		WEIGHT BRIDGE   WNGOF1		ENVIRONMENT CONDITIONS (Sky/Wind)
		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )		
FROM	TO	SPM	PM <sub>10</sub>	
13-07-2023	14-07-2023	5	5	CLEAR / CALM
		447	278	



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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23

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
08-07-2023	3.44	38	20	BDL
23-07-2023	3.12	42	24	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

ETP DISCHARGE: WNGOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
08-07-2023	7.82	38	32	BDL
23-07-2023	7.28	30	36	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

  
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

CHP: WNGON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY'23	12-07-2023	65.5	63.1
JULY'23	28-07-2023	67.8	66.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY(GHUGUS): WNGON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY'23	12-07-2023	46.4	44.5
JULY'23	28-07-2023	47.4	46.3
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

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WESTERN COALFIELDS LTD.


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JULY 2023

Environment Laboratory  
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/21	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
06-07-2023	07-07-2023	269	183	64	23	11	RAINY / CALM
20-07-2023	21-07-2023	253	164	57	21	BDL	RAINY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> 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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
06-07-2023	07-07-2023	283	183	63	23	11	RAINY / CALM
20-07-2023	21-07-2023	273	162	58	21	BDL	RAINY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> 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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
05-07-2023	06-07-2023	62	33	14	BDL	RAINY /CALM
07-07-2023	08-07-2023	66	30	13	BDL	RAINY /CALM
12-07-2023	13-07-2023	73	28	15	BDL	RAINY /CALM
13-07-2023	14-07-2023	77	32	17	BDL	RAINY /CALM
21-07-2023	22-07-2023	82	39	16	BDL	RAINY /CALM
22-07-2023	23-07-2023	69	31	13	BDL	RAINY /CALM
27-07-2023	28-07-2023	71	34	14	BDL	RAINY /CALM
28-07-2023	29-07-2023	88	39	18	BDL	CLOUDY / CALM
NAAQS, 2009		100	60	80	80	CLOUDY / CALM

TARODA VILLAGE WNOA4						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)
		PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	2	6	10	
05-07-2023	06-07-2023	82	31	14	BDL	RAINY /CALM
07-07-2023	08-07-2023	76	33	15	BDL	RAINY /CALM
12-07-2023	13-07-2023	77	29	13	BDL	RAINY /CALM
13-07-2023	14-07-2023	88	34	16	BDL	RAINY /CALM
21-07-2023	22-07-2023	69	36	17	BDL	RAINY /CALM
22-07-2023	23-07-2023	72	37	15	BDL	RAINY /CALM
27-07-2023	28-07-2023	76	41	16	BDL	RAINY /CALM
28-07-2023	29-07-2023	79	37	17	BDL	CLOUDY / CALM
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	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 guidance		
SAMPLE DESCRIPTION	Air sample(Fugitive)		
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-07-23 TO 14-08-23	

WEIGHT BRIDGE WNOF1				
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )		ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	
FROM	TO	5	5	
14-07-2023	15-07-2023	468	262	CLEAR / CALM

CHP WNOF2				
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )		ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	
FROM	TO	5	5	
14-07-2023	15-07-2023	472	242	CLEAR / CALM



Analysed by

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23

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
06-07-2023	7.91	32	40	BDL
20-07-2023	6.12	38	32	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
06-07-2023	7.71	32	40	BDL
20-07-2023	7.82	36	48	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
06-07-2023	72	10.8
20-07-2023	64	12
GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS GSR 801E EPA 1993	100	30



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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

<b>CHP-NILJAI: WNON1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY'23	12-07-2023	66.7	64.3
JULY'23	28-07-2023	69.8	68.5
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>CHP-NILJAI(S): WNON2</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY'23	12-07-2023	68.2	66.5
JULY'23	28-07-2023	68.5	67.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY(NILJAI): WNON3</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY'23	12-07-2023	45.4	43.1
JULY'23	28-07-2023	47.5	46.8
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

# PENGANGA OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



JULY 2023

Environment Laboratory  
NABL Accredited vide Cert. No. TC-7102  
CMPDI  
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JARIPATKA, NAGPUR, PIN – 440 014

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/23	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

MANAGER OFFICE   WPOA1							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
06-07-2023	07-07-2023	296	187	59	23	11	CLEAR / CALM
20-07-2023	21-07-2023	264	172	53	21	BDL	RAINY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

NEAR MINE   WPOA2							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
06-07-2023	07-07-2023	284	189	61	22	11	CLEAR / CALM
20-07-2023	21-07-2023	263	168	58	21	BDL	RAINY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

VIRUR VILLAGE   WPOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
05-07-2023	06-07-2023	69	31	15	BDL	RAINY / CALM	
07-07-2023	08-07-2023	72	34	14	BDL	RAINY / CALM	
12-07-2023	13-07-2023	78	38	13	BDL	RAINY / CALM	
13-07-2023	14-07-2023	62	28	17	BDL	RAINY / CALM	
21-07-2023	22-07-2023	71	32	15	BDL	RAINY / CALM	
22-07-2023	23-07-2023	63	31	14	BDL	RAINY / CALM	
27-07-2023	28-07-2023	72	39	14	BDL	RAINY / CALM	
28-07-2023	29-07-2023	82	42	17	BDL	CLOUDY / CALM	
NAAQS, 2009		100	60	80	80	CLOUDY / CALM	

GADEGAON VILLAGE   WPOA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
05-07-2023	06-07-2023	70	40	14	BDL	RAINY / CALM	
07-07-2023	08-07-2023	76	42	15	BDL	RAINY / CALM	
12-07-2023	13-07-2023	64	36	17	BDL	RAINY / CALM	
13-07-2023	14-07-2023	66	29	16	BDL	RAINY / CALM	
21-07-2023	22-07-2023	71	29	17	BDL	RAINY / CALM	
22-07-2023	23-07-2023	68	28	16	BDL	RAINY / CALM	
27-07-2023	28-07-2023	77	42	15	BDL	RAINY / CALM	
28-07-2023	29-07-2023	83	43	16	BDL	CLOUDY / CALM	
NAAQS, 2009		100	60	80	80	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 guidance		
SAMPLE DESCRIPTION	Air sample(Fugitive)		
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-07-23 TO 14-08-23	

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 <sub>10</sub>	
14-07-2023	15-07-2023	466	281	CLEAR / 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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23

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
06-07-2023	7.68	28	32	BDL
20-07-2023	7.94	34	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**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOP	LSOP 6

NEAR WORKSHOP: WPON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	12-07-2023	58.8	55.5
JULY'23	28-07-2023	58.4	57.5
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>



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## ENVIRONMENTAL MONITORING REPORT

### GHONSA OC

WANI NORTH AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



JULY 2023

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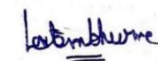
<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>		<b>Test Report</b>		 TC-7102	
TEST REPORT NO.	RIN/TR/JULY-23/23	DATE OF ISSUE	31-08-2023		
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR				
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017)				
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47		
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:			16-07-23 TO 14-08-23	

PROJECT MANAGER OFFICE   WNGOA1							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
04-07-2023	05-07-2023	218	137	40	13	BDL	CLEAR /CALM
19-07-2023	20-07-2023	197	122	31	15	10	RAINY /CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SAM OFFICE/ CANTEEN   WNKUA2							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
04-07-2023	05-07-2023	231	157	34	14	11	CLEAR /CALM
19-07-2023	20-07-2023	197	137	27	12	BDL	RAINY /CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

GHONSA VILLAGE   WNGOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
04-07-2023	05-07-2023	59	19	8	BDL	CLEAR /CALM	
19-07-2023	20-07-2023	62	26	9	BDL	RAINY /CALM	
NAAQS, 2009		100	60	80	80		

GUEST HOUSE/ COLONY   WNGOA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
04-07-2023	05-07-2023	60	22	9	BDL	CLEAR /CALM	
19-07-2023	20-07-2023	67	29	10	BDL	RAINY /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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES :	16-07-23 TO 14-08-23

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
04-07-2023	7.22	28	36	BDL
19-07-2023	7.10	24	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**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

MANAGER OFFICE: WNGON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	12-07-2023	55.5	54.6
JULY'23	21-07-2023	59.6	58.7
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY (GHONSA) WNGON2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	12-07-2023	46.7	45.8
JULY'23	21-07-2023	42.6	40.8
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>



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## ENVIRONMENTAL MONITORING REPORT

### JUNAD OC

WANI NORTH AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



JULY 2023

Environment Laboratory  
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/24	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

SAM OFFICE   WNJOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
06-07-2023	07-07-2023	193	141	32	15	13	CLEAR / CALM
21-07-2023	22-07-2023	176	129	26	13	BDL	RAINY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

BORGAON VILLAGE   WNJOA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)	
		PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
FROM	TO	5	2	6	10		
06-07-2023	07-07-2023	57	22	10	BDL		CLEAR / CALM
21-07-2023	22-07-2023	63	29	8	BDL		RAINY / CALM
NAAQS, 2009		100	60	80	80		

BHALAR TOWNSHIP   WNUOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)	
		PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
FROM	TO	5	2	6	10		
07-07-2023	08-07-2023	63	20	7	BDL		CLEAR / CALM
22-07-2023	23-07-2023	55	28	8	BDL		RAINY / CALM
NAAQS, 2009		100	60	80	80		

UKNI VILLAGE   WNUOA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)	
		PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
FROM	TO	5	2	6	10		
07-07-2023	08-07-2023	59	18	9	BDL		CLEAR / CALM
22-07-2023	23-07-2023	67	26	10	BDL		RAINY / 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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-07-23 TO 14-08-23	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )		ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	
FROM	TO	5	5	CLEAR / CALM
06-07-2023	07-07-2023	287	201	

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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23			

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
06-07-2023	7.01	32	40	BDL
21-07-2023	7.05	26	36	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	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
06-07-2023	7.17	48	52	BDL
21-07-2023	7.20	30	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**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

MANAGER OFFICE: WNJON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY'23	12-07-2023	56.4	54.4
JULY'23	28-07-2023	58.7	57.5
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
JULY'23	12-07-2023	46.4	44.5
JULY'23	28-07-2023	47.5	46.8
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. 4094423068



JULY 2023

Environment Laboratory  
NABL Accredited vide Cert. No. TC-7102  
CMPDI  
REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/25	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

SUBSTATION KOLARPIMPRI   WNKO1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
01-07-2023	02-07-2023	214	157	38	15	11	CLEAR / CALM
16-07-2023	17-07-2023	192	162	30	12	BDL	RAINY / LIGHT BREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

REST SHELTER   WNKO2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
01-07-2023	02-07-2023	184	141	27	12	BDL	CLEAR / CALM
16-07-2023	17-07-2023	201	135	35	13	BDL	RAINY / LIGHT BREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

PIMPRI VILLAGE   WNKO3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)	
		PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
FROM	TO	5	2	6	10		
01-07-2023	02-07-2023	78	25	9	BDL	CLEAR / CALM	
02-07-2023	03-07-2023	64	18	10	BDL	CLEAR / CALM	
08-07-2023	09-07-2023	52	17	8	BDL	CLEAR / CALM	
09-07-2023	10-07-2023	61	20	7	BDL	CLEAR / CALM	
16-07-2023	17-07-2023	62	31	8	BDL	RAINY / LIGHT BREEZE	
17-07-2023	18-07-2023	70	25	8	BDL	RAINY / LIGHT BREEZE	
23-07-2023	24-07-2023	63	28	9	BDL	CLEAR / CALM	
24-07-2023	25-07-2023	51	25	8	BDL	CLOUDY / CALM	
29-07-2023	30-07-2023	66	26	8	BDL	CLOUDY / CALM	
30-07-2023	31-07-2023	74	23	7	BDL	CLOUDY / CALM	
NAAQS, 2009		100	60	80	80		

WATER FILTER PLANT PRAGATI NAGAR   WNKO4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)	
		PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
FROM	TO	5	2	6	10		
01-07-2023	02-07-2023	86	21	10	BDL	CLEAR / CALM	
02-07-2023	03-07-2023	80	19	9	BDL	CLEAR / CALM	
08-07-2023	09-07-2023	63	23	10	BDL	CLEAR / CALM	
09-07-2023	10-07-2023	51	19	9	BDL	CLEAR / CALM	
16-07-2023	17-07-2023	71	28	9	BDL	RAINY / LIGHT BREEZE	
17-07-2023	18-07-2023	67	26	10	BDL	RAINY / LIGHT BREEZE	
23-07-2023	24-07-2023	57	17	8	BDL	CLEAR / CALM	
24-07-2023	25-07-2023	58	23	10	BDL	CLOUDY / CALM	
29-07-2023	30-07-2023	73	20	9	BDL	CLOUDY / CALM	
30-07-2023	31-07-2023	86	26	10	BDL	CLOUDY / 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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-07-23 TO 14-08-23	

CHP   WNKOF1				
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )		ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	
FROM	TO	5	5	
09-07-2023	10-07-2023	245	149	CLEAR / CALM

WEIGH BRIDGE   WNKOF2				
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )		ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	
FROM	TO	5	5	
09-07-2023	10-07-2023	257	165	CLEAR / CALM

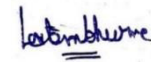
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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5   PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23

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
02-07-2023	7.09	26	32	BDL
30-07-2023	7.12	24	28	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**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

CHP: WNKON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
		<b>20</b>	<b>20</b>
JULY'23	12-07-2023	65.6	63.4
JULY'23	28-07-2023	67.7	66.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY PRAGATI NAGAR: WNPON2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
		<b>20</b>	<b>20</b>
JULY'23	12-07-2023	45.6	43.5
JULY'23	28-07-2023	46.5	45.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

### PIMPALGAON OC

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



JULY 2023

Environment Laboratory  
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TEST REPORT NO.	RIN/TR/JULY-23/27	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23


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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
05-07-2023	06-07-2023	199	138	29	12	BDL	CLEAR / CALM
20-07-2023	21-07-2023	184	127	36	13	BDL	RAINY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> 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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
05-07-2023	06-07-2023	211	159	30	13	BDL	CLEAR / CALM
20-07-2023	21-07-2023	182	142	38	11	BDL	RAINY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> 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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
01-07-2023	02-07-2023	86	21	10	BDL	CLEAR / CALM
02-07-2023	03-07-2023	80	19	9	BDL	CLEAR / CALM
08-07-2023	09-07-2023	63	23	10	BDL	CLEAR / CALM
09-07-2023	10-07-2023	51	19	9	BDL	CLEAR / CALM
16-07-2023	17-07-2023	71	28	9	BDL	RAINY / LIGHT BREEZE
17-07-2023	18-07-2023	67	26	10	BDL	RAINY / LIGHT BREEZE
23-07-2023	24-07-2023	57	17	8	BDL	CLEAR / CALM
24-07-2023	25-07-2023	58	23	10	BDL	CLOUDY / CALM
29-07-2023	30-07-2023	73	20	9	BDL	CLOUDY / CALM
30-07-2023	31-07-2023	86	26	10	BDL	CLOUDY / 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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
06-07-2023	07-07-2023	57	22	10	BDL	CLEAR / CALM
21-07-2023	22-07-2023	63	29	8	BDL	RAINY / CALM
NAAQS, 2009		100	60	80	80	

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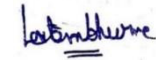
<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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**FUGITIVE DUST MONITORING**

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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-07-23 TO 14-08-23	

WEIGH BRIDGE WNOF1				
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )		ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	
FROM	TO	5	5	
05-07-2023	06-07-2023	271	188	CLEAR / CALM

CHP WNOF2				
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )		ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	
FROM	TO	5	5	
05-07-2023	06-07-2023	287	193	CLEAR / CALM



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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

CHP: WNPON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	12-07-2023	66.7	64.3
JULY'23	28-07-2023	68.3	67.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY PRAGATI NAGAR: WNPON2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	12-07-2023	45.6	43.5
JULY'23	28-07-2023	46.5	45.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

### RAJUR UG

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068




JULY 2023

Environment Laboratory  
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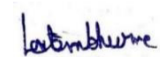
TEST REPORT NO.	RIN/TR/JULY-23/28	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

NEAR BANDEWADA INCLINE   WNRUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
03-07-2023	04-07-2023	237	158	42	14	BDL	CLEAR / CALM
18-07-2023	19-07-2023	189	132	34	15	13	RAINY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		<b>600</b>	<b>300</b>	-	<b>120</b>	<b>120</b>	

SAM OFFICE   WNRUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
03-07-2023	04-07-2023	221	147	38	13	BDL	CLEAR / CALM
18-07-2023	19-07-2023	176	128	46	14	BDL	RAINY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		<b>600</b>	<b>300</b>	-	<b>120</b>	<b>120</b>	

PIT OFFICE   WNRUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
FROM	TO	5	5	2	6	10	
03-07-2023	04-07-2023	237	161	36	13	BDL	CLEAR / CALM
18-07-2023	19-07-2023	201	143	41	15	BDL	RAINY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		<b>600</b>	<b>300</b>	-	<b>120</b>	<b>120</b>	

HUTMENT   WNRUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
		PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
FROM	TO	5	2	6	10		
03-07-2023	04-07-2023	67	21	8	BDL		CLEAR / CALM
18-07-2023	19-07-2023	51	26	9	BDL		RAINY / CALM
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>		

  
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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-07-23 TO 14-08-23	

DATE(dd:mm:yy) OF SAMPLING		WEIGH BRIDGE   WNUF1		ENVIRONMENT CONDITIONS (Sky/Wind)
		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )		
FROM	TO	SPM	PM <sub>10</sub>	
03-07-2023	04-07-2023	5	5	CLEAR / CALM
		268	193	

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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES :	16-07-23 TO 14-08-23

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
03-07-2023	7.36	26	32	BDL
18-07-2023	7.40	38	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**

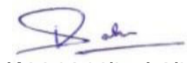
SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JUNE-2015
SAMPLING METHOD	LSOP 6

FAN HOUSE:		WNRUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JULY'23	10-07-2023	60.4	59.7
JULY'23	21-07-2023	59.6	56.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY RAJUR:		WNRUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JULY'23	10-07-2023	46.3	42.6
JULY'23	21-07-2023	45.8	43.9
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45



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# ENVIRONMENTAL MONITORING REPORT

## UKNI DEEP OC

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068




JULY 2023



Environment Laboratory  
NABL Accredited vide Cert. No. TC-7102  
CMPDI  
REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>		<b>Test Report</b>		 TC-7102	
TEST REPORT NO.	RIN/TR/JULY-23/29	DATE OF ISSUE	31-08-2023		
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR				
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)				
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :		LQR 47	
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:			16-07-23 TO 14-08-23	

WORKSHOP PREMISES   WNUOA1							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>		SO <sub>2</sub>
07-07-2023	08-07-2023	211	137	35	12	BDL	CLEAR / CALM
22-07-2023	23-07-2023	172	121	27	13	BDL	RAINY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

BHALAR TOWNSHIP   WNUOA2						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
07-07-2023	08-07-2023	63	20	7	BDL	CLEAR / CALM
22-07-2023	23-07-2023	55	28	8	BDL	RAINY / CALM
NAAQS, 2009		100	60	80	80	

UKNI VILLAGE   WNUOA3						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
07-07-2023	08-07-2023	59	18	9	BDL	CLEAR / CALM
22-07-2023	23-07-2023	67	26	10	BDL	RAINY / CALM
NAAQS, 2009		100	60	80	80	

PIMPRI VILLAGE   WNKOA3						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
01-07-2023	02-07-2023	78	25	9	BDL	CLEAR / CALM
02-07-2023	03-07-2023	64	18	10	BDL	CLEAR / CALM
08-07-2023	09-07-2023	52	17	8	BDL	CLEAR / CALM
09-07-2023	10-07-2023	61	20	7	BDL	CLEAR / CALM
16-07-2023	17-07-2023	62	31	8	BDL	RAINY / LIGHT BREEZE
17-07-2023	18-07-2023	70	25	8	BDL	RAINY / LIGHT BREEZE
23-07-2023	24-07-2023	63	28	9	BDL	CLEAR / CALM
24-07-2023	25-07-2023	51	25	8	BDL	CLOUDY / CALM
29-07-2023	30-07-2023	66	26	8	BDL	CLOUDY / CALM
30-07-2023	31-07-2023	74	23	7	BDL	CLOUDY / CALM
NAAQS, 2009		100	60	80	80	



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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-07-23 TO 14-08-23	

WEIGH BRIDGE   WNUOF1				
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )		ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	
FROM	TO	5	5	
13-07-2023	14-07-2023	310	212	CLEAR / CALM

CHP   WNOF2				
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )		ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	
FROM	TO	5	5	
13-07-2023	14-07-2023	273	189	CLEAR / CALM

*Latimkhurme*

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>		<b>Test Report</b>			
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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23			

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
07-07-2023	6.46	26	32	BDL
22-07-2023	6.80	22	28	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	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
07-07-2023	6.92	36	44	BDL
22-07-2023	6.96	22	32	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

STP DISCHARGE: WNUOW3		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS (in mg/l)	BOD(in mg/l)
DETECTION LIMIT	10	2
07-07-2023	28	14
22-07-2023	32	16
GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS GSR 801E EPA 1993	100	30

*lastimkhume*

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

CHP: WNUON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	12-07-2023	68.6	66.4
JULY'23	28-07-2023	68.3	67.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

BHALAR COLONY: WNUON2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	12-07-2023	46.4	44.5
JULY'23	28-07-2023	47.5	46.8
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45



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## ENVIRONMENTAL MONITORING REPORT

# WANI RAILWAY SIDING

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



JULY 2023

Environment Laboratory  
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/30	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

NEAR RAILWAY SIDING   WNRSA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
		5	5	2	6	10	
01-07-2023	02-07-2023	183	140	30	11	BDL	CLEAR / CALM
02-07-2023	03-07-2023	172	132	36	12	BDL	CLEAR / CALM
08-07-2023	09-07-2023	151	121	32	10	BDL	RAINY / CALM
09-07-2023	10-07-2023	181	137	36	10	BDL	RAINY / CALM
16-07-2023	17-07-2023	167	127	36	12	BDL	RAINY / LIGHT BREEZE
17-07-2023	18-07-2023	192	124	43	11	BDL	RAINY / CALM
23-07-2023	24-07-2023	173	120	27	12	BDL	CLEAR / CALM
24-07-2023	25-07-2023	168	121	44	13	BDL	CLOUDY / CALM
29-07-2023	30-07-2023	156	109	32	12	BDL	CLOUDY / CALM
30-07-2023	31-07-2023	162	117	35	11	BDL	CLOUDY / CALM
TLV		600	300	-	120	120	

VITTALWADI   WNRSA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )				ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
		5	2	6	10		
01-07-2023	02-07-2023	83	26	9	BDL	CLEAR / CALM	
02-07-2023	03-07-2023	71	20	8	BDL	CLEAR / CALM	
08-07-2023	09-07-2023	58	24	7	BDL	RAINY / CALM	
09-07-2023	10-07-2023	67	17	8	BDL	RAINY / CALM	
16-07-2023	17-07-2023	66	29	10	BDL	RAINY / LIGHT BREEZE	
17-07-2023	18-07-2023	70	26	10	BDL	RAINY / CALM	
23-07-2023	24-07-2023	61	29	7	BDL	CLEAR / CALM	
24-07-2023	25-07-2023	51	20	9	BDL	CLOUDY / CALM	
29-07-2023	30-07-2023	63	19	10	BDL	CLOUDY / CALM	
30-07-2023	31-07-2023	70	20	8	BDL	CLOUDY / CALM	
NAAQS, 2009		100	60	80	80		

PRAGATI NAGAR   WNRSA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )				ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
		5	2	6	10		
01-07-2023	02-07-2023	79	22	8	BDL	CLEAR / CALM	
02-07-2023	03-07-2023	83	20	9	BDL	CLEAR / CALM	
08-07-2023	09-07-2023	52	20	8	BDL	RAINY / CALM	
09-07-2023	10-07-2023	62	16	7	BDL	RAINY / CALM	
16-07-2023	17-07-2023	65	19	8	BDL	RAINY / LIGHT BREEZE	
17-07-2023	18-07-2023	61	27	9	BDL	RAINY / CALM	
23-07-2023	24-07-2023	67	29	9	BDL	CLEAR / CALM	
24-07-2023	25-07-2023	55	24	9	BDL	CLOUDY / CALM	
29-07-2023	30-07-2023	69	18	9	BDL	CLOUDY / CALM	
30-07-2023	31-07-2023	60	22	10	BDL	CLOUDY / CALM	
NAAQS, 2009		100	60	80	80		

  
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

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 <sub>10</sub>	
14-07-2023	15-07-2023	270	178	CLEAR / CALM

*Leetambhurne*

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

Residential Area Near Railway siding		WNRSN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JULY'23	12-07-2023	57.5	53.4
JULY'23	28-07-2023	69.7	68.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

NEAR INCHARGE OFFICE:		WNRSN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JULY'23	12-07-2023	56.4	52.3
JULY'23	28-07-2023	48.5	47.5
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>



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## ENVIRONMENTAL MONITORING REPORT

### AMBARA OC

KANHAN AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423067



JULY 2023

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/67	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
12-07-2023	13-07-2023	274	170	38	13	10	CLOUDY / CALM
27-07-2023	28-07-2023	265	165	32	14	11	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> 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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
12-07-2023	13-07-2023	255	156	42	15	12	CLOUDY / CALM
27-07-2023	28-07-2023	282	182	40	14	10	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> 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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
11-07-2023	12-07-2023	56	24	8	BDL	CLOUDY / CALM	
26-07-2023	27-07-2023	52	22	9	BDL	CLOUDY / CALM	
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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
11-07-2023	12-07-2023	58	26	9	BDL	CLOUDY / CALM	
26-07-2023	27-07-2023	54	24	7	BDL	CLOUDY / CALM	
NAAQS, 2009		100	60	80	80		

*J. Shrivastava*

Analysed by





<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 <small>TC-7102</small>
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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JUNE-2015
SAMPLING METHOD	LSOP 6

<b>MANAGER OFFICE: KAON1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY'23	12-07-2023	45.8	44.3
JULY'23	27-07-2023	52.7	51.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY(MOHAN/MAORI): KMUN2</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY'23	11-07-2023	43.9	42.1
JULY'23	27-07-2023	42.8	41.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

### AREA WORKSHOP

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423067



JULY 2023

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/69	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
10-07-2023	11-07-2023	272	165	36	15	10	RAINY/ CALM
25-07-2023	26-07-2023	263	155	32	11	BDL	CLOUDY/ CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		<b>600</b>	<b>300</b>	-	<b>120</b>	<b>120</b>	

*J. Sheng*

Analysed by

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JUNE-2015
SAMPLING METHOD	LSOP 6

WORK SHOP PREMISES:		KAWN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	10-07-2023	52.8	51.1
JULY'23	23-07-2023	52.6	51.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>



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## ENVIRONMENTAL MONITORING REPORT

# GHORAWARI OC

KANHAN AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423067



JULY 2023

Environment Laboratory  
NABL Accredited vide Cert. No. TC-7102  
CMPDI  
REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>		<b>Test Report</b>		 TC-7102	
TEST REPORT NO.	RIN/TR/JULY-23/70	DATE OF ISSUE	31-08-2023		
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR				
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)				
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47		
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:			16-07-23 TO 14-08-23	


MANAGER OFFICE-OC   KGOA1							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09-07-2023	10-07-2023	272	170	38	13	10	CLOUDY/ CALM
24-07-2023	25-07-2023	268	162	34	11	BDL	CLOUDY/ CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SAM-OFFICE GHORAWARI   KJUA2							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09-07-2023	10-07-2023	232	132	36	10	BDL	CLOUDY/ CALM
24-07-2023	25-07-2023	244	138	32	11	BDL	CLOUDY/ CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY HEALTH CENTER JHARNA   KJUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
09-07-2023	10-07-2023	52	28	8	BDL	CLOUDY/ CALM	
24-07-2023	25-07-2023	48	26	7	BDL	CLOUDY/ CALM	
NAAQS, 2009		100	60	80	80		

PANARA VILLAGE   KJUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
09-07-2023	10-07-2023	55	28	8	BDL	CLOUDY/ CALM	
24-07-2023	25-07-2023	50	24	7	BDL	CLOUDY/ CALM	
NAAQS, 2009		100	60	80	80		

*J. Shary*  
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-07-23 TO 14-08-23	

		WEIGH BRIDGE KAUF1			
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 <sub>10</sub>		
10-07-2023	11-07-2023	375	265	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 :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)	
SAMPLING METHOD	LSOP 5	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23

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
10-07-2023	8.23	26	36	BDL
25-07-2023	7.85	22	32	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

*J. Shrivastava*

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JUNE-2015
SAMPLING METHOD	LSOP 6

MANAGER OFFICE:		KGON1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JULY'23	10-07-2023	42.9	41.1
JULY'23	25-07-2023	41.9	41.1
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY(JHARNA):		KGON2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JULY'23	09-07-2023	43.7	42.4
JULY'23	24-07-2023	42.7	41.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

# JHARNA/ GHORAWARI UG

KANHAN AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423067



JULY 2023

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/71	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

MANAGER OFFICE- JHARNA UG   KJUA1							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09-07-2023	10-07-2023	272	170	38	13	10	CLOUDY/ CALM
24-07-2023	25-07-2023	268	162	34	11	BDL	CLOUDY/ CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	


SAM-OFFICE GHORAWARI   KJUA2							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09-07-2023	10-07-2023	232	132	36	10	BDL	CLOUDY/ CALM
24-07-2023	25-07-2023	244	138	32	11	BDL	CLOUDY/ CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY HEALTH CENTER JHARNA   KJUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
09-07-2023	10-07-2023	52	28	8	BDL	CLOUDY/ CALM	
24-07-2023	25-07-2023	48	26	7	BDL	CLOUDY/ CALM	
NAAQS, 2009		100	60	80	80		

PANARA VILLAGE   KJUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
09-07-2023	10-07-2023	55	28	8	BDL	CLOUDY/ CALM	
24-07-2023	25-07-2023	50	24	7	BDL	CLOUDY/ CALM	
NAAQS, 2009		100	60	80	80		

*J. Shrivastava*

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JUNE-2015
SAMPLING METHOD	LSOP 6

FAN HOUSE: KJUN1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	09-07-2023	44.9	43.2
JULY'23	24-07-2023	42.8	41.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY: KJUN1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	09-07-2023	43.7	42.4
JULY'23	24-07-2023	42.7	41.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

# MOHAN/ MAORI UG

KANHAN AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423067



JULY 2023

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/72	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

SAM OFFICE   KMUA1							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
12-07-2023	13-07-2023	245	142	38	13	10	CLOUDY / CALM
27-07-2023	28-07-2023	260	165	42	14	11	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	


MANAGER OFFICE   KMUA2							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
12-07-2023	13-07-2023	253	156	44	14	11	CLOUDY / CALM
27-07-2023	28-07-2023	274	170	46	13	10	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> 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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
11-07-2023	12-07-2023	56	24	8	BDL	BDL	CLOUDY / CALM
26-07-2023	27-07-2023	52	22	9	BDL	BDL	CLOUDY / CALM
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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
11-07-2023	12-07-2023	58	26	9	BDL	BDL	CLOUDY / CALM
26-07-2023	27-07-2023	54	24	7	BDL	BDL	CLOUDY / 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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-07-23 TO 14-08-23	

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 <sub>10</sub>	
13-07-2023	14-07-2023	357	254	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 <sub>10</sub>	
13-07-2023	14-07-2023	421	294	CLOUDY / CALM

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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JUNE-2015
SAMPLING METHOD	LSOP 6

FAN HOUSE:		KMUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	11-07-2023	62.9	61.3
JULY'23	27-07-2023	62.9	61.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY(MOHAN MAORI):		KMUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	11-07-2023	43.9	42.1
JULY'23	27-07-2023	42.8	41.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

# NANDAN UG

KANHAN AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423067



JULY 2023

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/73	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08-07-2023	09-07-2023	265	168	40	14	11	RAINY/ CALM
23-07-2023	24-07-2023	272	178	38	13	10	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

PIT OFFICE NANADAN II UG   KNUA2							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08-07-2023	09-07-2023	255	156	45	14	10	RAINY/ CALM
23-07-2023	24-07-2023	260	162	42	13	11	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

HEALTH CENTER-NANADAN UG   KNUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
08-07-2023	09-07-2023	52	28	9	BDL	RAINY/ CALM	
23-07-2023	24-07-2023	48	26	8	BDL	CLOUDY / CALM	
NAAQS, 2009		100	60	80	80		

NANDAN WATER FILTER PLANT   KNUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
08-07-2023	09-07-2023	58	28	7	BDL	RAINY/ CALM	
23-07-2023	24-07-2023	54	26	8	BDL	CLOUDY / CALM	
NAAQS, 2009		100	60	80	80		

*J. Sheng*

Analysed by

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES :	16-07-23 TO 14-08-23

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
08-07-2023	8.13	28	40	BDL
23-07-2023	7.72	26	36	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

*J. Shany*

Analysed by

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 <small>TC-7102</small>
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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JUNE-2015
SAMPLING METHOD	LSOP 6

<b>FAN HOUSE UG II: KNUN1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	08-07-2023	67.1	66.3
JULY'23	23-07-2023	65.7	64.1
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY: KNUN2</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	08-07-2023	43.2	42.1
JULY'23	23-07-2023	42.9	41.7
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

# SHARDA UG

KANHAN AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423067



JULY 2023

Environment Laboratory  
NABL Accredited vide Cert. No. TC-7102  
CMPDI  
REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/74a	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

INCLINE SHARDA KSUA1							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
11-07-2023	12-07-2023	285	186	49	14	11	CLOUDY / CALM
26-07-2023	27-07-2023	278	176	46	13	10	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	


UMARIA FADALI VILLAGE KSUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
10-07-2023	11-07-2023	52	28	8	BDL	BDL	CLOUDY / CALM
25-07-2023	26-07-2023	48	24	7	BDL	BDL	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		100	60	80	80		

TATARWADA VILLAGE KSUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
10-07-2023	11-07-2023	58	26	7	BDL	BDL	CLOUDY / CALM
25-07-2023	26-07-2023	62	28	8	BDL	BDL	CLOUDY / CALM
NAAQS, 2009		100	60	80	80		

JAMUNBADA DARBAR VILLAGE KSUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
11-07-2023	12-07-2023	58	28	8	BDL	BDL	CLOUDY / CALM
26-07-2023	27-07-2023	48	24	7	BDL	BDL	CLOUDY / CALM
NAAQS, 2009		100	60	80	80		

*J. Shany*


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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23			

MINE WATER DISCHARGE: KSUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
07-07-2023	8.56	34	44	BDL
23-07-2023	7.89	32	40	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

*J. Shrivastava*

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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JUNE-2015
SAMPLING METHOD	LSOP 6

NEAR PIT OFFICE		KSUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	10-07-2023	53.4	52.1
JULY'23	25-07-2023	52.9	51.3
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

UMARIA FADALI VILLAGE		KSUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	10-07-2023	41.9	41.1
JULY'23	25-07-2023	41.9	41.1
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

TATARWADA VILLAGE		KSUN3	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	10-07-2023	40.9	40.1
JULY'23	25-07-2023	41.7	41.1
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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# ENVIRONMENTAL MONITORING REPORT

## TANDSI UG

KANHAN AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423067



JULY 2023

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/74	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
07-07-2023	08-07-2023	254	152	32	14	10	CLOUDY/CALM
22-07-2023	23-07-2023	246	148	28	15	11	CLOUDY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> 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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
07-07-2023	08-07-2023	265	167	34	13	11	CLOUDY/CALM
22-07-2023	23-07-2023	258	158	30	12	10	CLOUDY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> 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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
07-07-2023	08-07-2023	58	26	8	BDL	CLOUDY/CALM	
22-07-2023	23-07-2023	48	24	7	BDL	CLOUDY/CALM	
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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
07-07-2023	08-07-2023	52	26	9	BDL	CLOUDY/CALM	
22-07-2023	23-07-2023	62	28	8	BDL	CLOUDY/CALM	
NAAQS, 2009		100	60	80	80		

*J. Shany*

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 IC-7102
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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES :	16-07-23 TO 14-08-23

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
07-07-2023	8.17	26	36	BDL
23-07-2023	7.52	18	28	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

*J. Shan*

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JUNE-2015
SAMPLING METHOD	LSOP 6

FAN HOUSE:		KTUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JULY'23	08-07-2023	68.2	66.8
JULY'23	23-07-2023	69.8	67.7
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY(TANDSI):		KTUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JULY'23	08-07-2023	43.7	42.4
JULY'23	23-07-2023	42.7	41.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

# CHATTARPUR I & II UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423067



JULY 2023

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TEST REPORT NO.	RIN/TR/JULY-23/75	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

SUBSTATION- CHATTARPUR I UG		PKCUA1					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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
02-07-2023	03-07-2023	293	208	43	17	BDL	CLOUDY SKY / LIGHT BREEZE
18-07-2023	19-07-2023	264	197	48	18	BDL	CLOUDY SKY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SAM OFFICE		PKCUA2					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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
02-07-2023	03-07-2023	281	207	42	16	BDL	CLOUDY SKY / LIGHT BREEZE
18-07-2023	19-07-2023	322	231	48	18	10	CLOUDY SKY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SUBSTATION-CHATTARPUR II UG		PKCUA3					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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
02-07-2023	03-07-2023	332	218	48	17	10	CLOUDY SKY / LIGHT BREEZE
19-07-2023	20-07-2023	313	201	43	15	BDL	CLOUDY SKY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

CHATTARPUR VILLAGE		PKCUA4				ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
02-07-2023	03-07-2023	81	24	11	BDL	CLOUDY SKY / LIGHT BREEZE
19-07-2023	20-07-2023	88	26	9	BDL	CLOUDY SKY / CALM
NAAQS, 2009		100	60	80	80	



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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

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 <sub>10</sub>	
06-07-2023	07-07-2023	476	286	CLOUDY SKY / LIGHT 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 <sub>10</sub>	
06-07-2023	07-07-2023	488	277	CLOUDY SKY / LIGHT 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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23

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
02-07-2023	7.84	30	36	BDL
19-07-2023	7.47	34	40	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

MINE WATER DISCHARGE II UG: PKCUW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
02-07-2023	7.92	34	28	BDL
19-07-2023	8.10	26	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**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

FAN HOUSE-I UG:		PKCUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	03-07-2023	70.6	68.7
JULY'23	19-07-2023	69.8	67.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

FAN HOUSE-II UG:		PKCUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	03-07-2023	70.4	67.7
JULY'23	19-07-2023	69.7	67.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY:		PKCUN3	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	03-07-2023	44.5	43.6
JULY'23	19-07-2023	42.8	41.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

### SARNI UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423067



JULY 2023

Environment Laboratory  
NABL Accredited vide Cert. No. TC-7102  
CMPDI  
REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>		<b>Test Report</b>		 TC-7102	
TEST REPORT NO.	RIN/TR/JULY-23/76	DATE OF ISSUE	31-08-2023		
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR				
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)				
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :		LQR 47	
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:			16-07-23 TO 14-08-23	

SUBSTATION SARNI UG   PKSUA1							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
05-07-2023	06-07-2023	318	213	46	17	10	CLOUDY SKY / LIGHT BREEZE
11-07-2023	12-07-2023	288	193	33	15	BDL	CLOUDY SKY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

NEAR DY. CME OFFICE   PKSUA2							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
05-07-2023	06-07-2023	312	218	46	17	BDL	CLOUDY SKY / LIGHT BREEZE
11-07-2023	12-07-2023	289	191	43	16	BDL	CLOUDY SKY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

GM OFFICE ENTRANCE GATE   PKSUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
05-07-2023	06-07-2023	91	30	8	BDL	CLOUDY SKY / LIGHT BREEZE	
11-07-2023	12-07-2023	84	27	9	BDL	CLOUDY SKY / CALM	
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		100	60	80	80		

PATHAKHERA COLONY   PKSUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
05-07-2023	06-07-2023	91	28	9	BDL	CLOUDY SKY / LIGHT BREEZE	
11-07-2023	12-07-2023	82	31	10	BDL	CLOUDY SKY / CALM	
NAAQS, 2009		100	60	80	80		



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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23

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
05-07-2023	7.68	34	40	BDL
21-07-2023	7.12	32	44	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



Analysed by

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

FAN HOUSE:		PKSUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JULY'23	05-07-2023	71.4	69.5
JULY'23	21-07-2023	69.9	67.7
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY(SARNI):		PKSUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JULY'23	05-07-2023	43.7	42.7
JULY'23	21-07-2023	43.2	42.1
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



Amol Kamble  
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## ENVIRONMENTAL MONITORING REPORT

# SHOBHAPUR UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423067



JULY 2023

Environment Laboratory  
NABL Accredited vide Cert. No. TC-7102  
CMPDI  
REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/77	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

SAM OFFICE   PKSHUA1							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
03-07-2023	04-07-2023	284	183	43	17	10	CLOUDY SKY / LIGHT BREEZE
18-07-2023	19-07-2023	274	169	39	15	BDL	CLOUDY SKY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	


SUBSTATION   PKSHUA2							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
03-07-2023	04-07-2023	322	211	43	16	10	CLOUDY SKY / LIGHT BREEZE
19-07-2023	20-07-2023	291	187	47	14	BDL	CLOUDY SKY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SHOBHAPUR VILLAGE   PKSHUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
03-07-2023	04-07-2023	83	32	11	BDL	CLOUDY SKY / LIGHT BREEZE	
20-07-2023	21-07-2023	74	36	10	BDL	CLOUDY SKY / CALM	
NAAQS, 2009		100	60	80	80		

SHOBHAPUR COLONY   PKSHUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
03-07-2023	04-07-2023	77	32	11	BDL	CLOUDY SKY / LIGHT BREEZE	
20-07-2023	21-07-2023	83	34	10	BDL	CLOUDY SKY / CALM	
NAAQS, 2009		100	60	80	80		



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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

<b>FAN HOUSE:</b>		<b>PKSUN1</b>	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JULY'23	03-07-2023	43.7	42.4
JULY'23	20-07-2023	42.1	41.3
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY(SHOBHAPUR):</b>		<b>PKSUN2</b>	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIHT TIME
JULY'23	03-07-2023	44.6	43.6
JULY'23	19-07-2023	42.9	42.1
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



Amol Kamble  
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## ENVIRONMENTAL MONITORING REPORT

### TAWA-II UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423067



JULY 2023

Environment Laboratory  
NABL Accredited vide Cert. No. TC-7102  
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/78	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

MANAGER OFFICE- TAWA II   PKT2UA1							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
04-07-2023	05-07-2023	308	212	38	17	10	CLOUDY / LIGHT BREEZE
20-07-2023	21-07-2023	287	193	42	14	BDL	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SAM OFFICE   PKTUA1							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
04-07-2023	05-07-2023	308	216	46	17	10	CLOUDY / LIGHT BREEZE
20-07-2023	21-07-2023	296	207	42	15	BDL	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

MPEB COLONY   PKTUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
04-07-2023	05-07-2023	81	28	11	BDL	CLOUDY / LIGHT BREEZE	
20-07-2023	21-07-2023	92	33	9	BDL	CLOUDY / CALM	
NAAQS, 2009		100	60	80	80		

HIRA PALLA/BHAGAIKHAPA VILLAGE   PKT2UA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
04-07-2023	05-07-2023	78	28	11	BDL	CLOUDY / LIGHT BREEZE	
20-07-2023	21-07-2023	91	33	10	BDL	CLOUDY / CALM	
NAAQS, 2009		100	60	80	80		



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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 <small>TC-7102</small>
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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-07-23 TO 14-08-23	

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)
		SPM	PM <sub>10</sub>	
FROM	TO			
06-07-2023	07-07-2023	464	233	CLOUDY / LIGHT BREEZE



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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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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 PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23

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
04-07-2023	7.81	34	40	BDL
20-07-2023	7.33	38	44	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



Analysed by

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

FAN HOUSE:		PKTUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
JULY'23	04-07-2023	71.6	69.6
JULY'23	20-07-2023	69.9	68.1
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>



Amol Kamble  
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## ENVIRONMENTAL MONITORING REPORT

### TAWA UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.


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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/79	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

SAM OFFICE   PKTUA1							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
04-07-2023	05-07-2023	308	216	46	17	10	CLOUDY / LIGHT BREEZE
20-07-2023	21-07-2023	296	207	42	15	BDL	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	


MANAGER OFFICE- TAWA II   PKT2UA2							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
04-07-2023	05-07-2023	308	212	38	17	10	CLOUDY / LIGHT BREEZE
20-07-2023	21-07-2023	287	193	42	14	BDL	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

MPEB COLONY   PKTUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
04-07-2023	05-07-2023	81	28	11	BDL	BDL	CLOUDY / LIGHT BREEZE
20-07-2023	21-07-2023	92	33	9	BDL	BDL	CLOUDY / CALM
NAAQS, 2009		100	60	80	80		

HIRA PALLA/BHAGAIKHAPA VILLAGE   PKT2UA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
04-07-2023	05-07-2023	78	28	11	BDL	BDL	CLOUDY / LIGHT BREEZE
20-07-2023	21-07-2023	91	33	10	BDL	BDL	CLOUDY / CALM
NAAQS, 2009		100	60	80	80		



Analysed by

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES :	16-07-23 TO 14-08-23

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
04-07-2023	7.48	30	40	BDL
20-07-2023	7.92	32	36	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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**NOISE LEVEL MONITORING DATA**

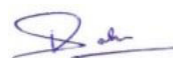
SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

<b>FAN HOUSE: PKTUN1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY'23	04-07-2023	69.7	68.4
JULY'23	20-07-2023	68.9	67.1
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY(TAWA): PKTUN2</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY'23	04-07-2023	44.5	43.2
JULY'23	20-07-2023	42.8	41.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

### BARKUHI OC

PENCH AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423067



JULY 2023

Environment Laboratory  
NABL Accredited vide Cert. No. TC-7102  
CMPDI  
REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>		<b>Test Report</b>		 TC-7102	
TEST REPORT NO.	RIN/TR/JULY-23/54	DATE OF ISSUE	31-08-2023		
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR				
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)				
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47		
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:			16-07-23 TO 14-08-23	

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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
13-07-2023	14-07-2023	179	133	38	13	BDL	RAINY / LIGHT BREEZE
29-07-2023	30-07-2023	199	159	30	15	10	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> 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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
13-07-2023	14-07-2023	182	149	40	15	10	RAINY / LIGHT BREEZE
28-07-2023	29-07-2023	171	123	32	13	BDL	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> 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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
12-07-2023	13-07-2023	192	148	44	14	BDL	RAINY / LIGHT BREEZE
29-07-2023	30-07-2023	167	123	39	13	BDL	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> 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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
13-07-2023	14-07-2023	58	22	9	BDL	RAINY / LIGHT BREEZE	
28-07-2023	29-07-2023	68	28	8	BDL	CLOUDY / CALM	
NAAQS, 2009		100	60	80	80		

*Latamblume*  
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-07-23 TO 14-08-23	

WEIGH BRIDGE PBOF1				
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )		ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	
FROM	TO			
20-07-2023	21-07-2023	281	170	CLOUDY / CALM

*lastimkhane*

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23

ETP DISCHARGE: PBOW1				
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
13-07-2023	7.28	26	32	BDL
29-07-2023	7.20	28	36	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

*testimkhurme*

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

NEAR BARKUI HOSPITAL: PBON1		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	10-07-2023	45.9	44.4
JULY'23	24-07-2023	45.7	44.5
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

  
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## ENVIRONMENTAL MONITORING REPORT

# CHANDAMETA WORKSHOP

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423067



JULY 2023

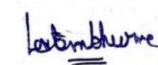
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/55	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
		5	5	2	6	10	
12-07-2023	13-07-2023	192	148	44	14	BDL	Rainy/ Light Breeze
29-07-2023	30-07-2023	167	123	39	13	BDL	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> 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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23

ETP DISCHARGE: PCWW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
11-07-2023	7.19	32	40	BDL
29-07-2023	7.22	28	36	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

*Labimkhane*

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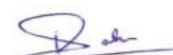
**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

NEAR CHANDAMETA WORKSHOP: PCWN1		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	10-07-2023	46.8	44.8
JULY'23	24-07-2023	46.2	44.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70



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## ENVIRONMENTAL MONITORING REPORT

### CHINDA OC

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423067



JULY 2023

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

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/56	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

SAM OFFICE   PCOA1							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
12-07-2023	13-07-2023	194	152	33	13	BDL	RAINY / CALM
27-07-2023	28-07-2023	179	137	28	14	BDL	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	


CHINDA OC - SITE   PCOA2							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
12-07-2023	13-07-2023	168	127	38	14	BDL	RAINY / CALM
27-07-2023	28-07-2023	189	144	31	12	BDL	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
12-07-2023	13-07-2023	67	28	8	BDL	RAINY / CALM	
27-07-2023	28-07-2023	78	22	9	BDL	CLOUDY / CALM	
NAAQS, 2009		100	60	80	80		

CHINDA COLONY   PNSOA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
12-07-2023	13-07-2023	61	27	9	BDL	RAINY / LIGHT BREEZE	
26-07-2023	27-07-2023	76	20	8	BDL	CLOUDY / CALM	
NAAQS, 2009		100	60	80	80		

*lastimbhume*

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23

MINE WATER DISCHARGE: PCOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
<b>DETECTION LIMIT</b>	<b>2</b>	<b>10</b>	<b>4</b>	<b>2</b>
12-07-2023	7.22	26	32	BDL
27-07-2023	7.28	28	36	BDL
<b>STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000</b>	<b>5.5 - 9.0</b>	<b>100</b>	<b>250</b>	<b>10</b>

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

NEAR MANAGER OFFICE: PCON1		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY'23	10-07-2023	45.8	44.2
JULY'23	24-07-2023	45.2	44.7
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY CHINDA: PCON2		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY'23	10-07-2023	44.4	43.9
JULY'23	24-07-2023	45.8	44.8
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

# DHANKASA UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423067



JULY 2023

Environment Laboratory  
NABL Accredited vide Cert. No. TC-7102  
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/66a	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

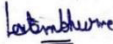
BHUMKADHANA VILLAGE PDUA1						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )				ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
07-07-2023	08-07-2023	70	24	8	BDL	CLOUDY/LIGHTBREEZE
21-07-2023	22-07-2023	61	29	7	BDL	CLOUDY / CALM
NAAQS, 2009		100	60	80	80	

CHARUN KHAPA PDUA2						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )				ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
07-07-2023	08-07-2023	68	20	7	BDL	CLOUDY/LIGHTBREEZE
21-07-2023	22-07-2023	59	26	8	BDL	CLOUDY / CALM
NAAQS, 2009		100	60	80	80	

BANKI VILLAGE PDUA3						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )				ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
07-07-2023	08-07-2023	77	23	10	BDL	CLOUDY/LIGHTBREEZE
21-07-2023	22-07-2023	70	18	8	BDL	CLOUDY / CALM
NAAQS, 2009		100	60	80	80	

DIGHAWANI VILLAGE PDUA4						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )				ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
07-07-2023	08-07-2023	86	27	10	BDL	CLOUDY/LIGHTBREEZE
21-07-2023	22-07-2023	71	22	9	BDL	CLOUDY / CALM
NAAQS, 2009		100	60	80	80	

MANAGER OFFICE PDUA5							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
07-07-2023	08-07-2023	237	166	43	14	BDL	CLOUDY/LIGHTBREEZE
21-07-2023	22-07-2023	178	142	37	13	11	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

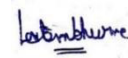
  
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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SAMPLE DESCRIPTION	Water sample	
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: 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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23

MINE WATER DISCHARGE: PDUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
07-07-2023	7.06	22	36	BDL
21-07-2023	7.11	48	52	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

  
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

BHUMKADHANA VILLAGE		PDUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	<b>DETECTION LIMIT</b>	<b>20</b>	<b>20</b>
JULY'23	10-07-2023	44.1	42.2
JULY'23	24-07-2023	44.2	42.7
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

CHARUN KHAPA VILLAGE		PDUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	<b>DETECTION LIMIT</b>	<b>20</b>	<b>20</b>
JULY'23	10-07-2023	45.6	43.9
JULY'23	24-07-2023	45.4	43.8
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

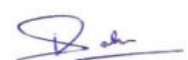
BANKI VILLAGE		PDUN3	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	<b>DETECTION LIMIT</b>	<b>20</b>	<b>20</b>
JULY'23	10-07-2023	45.7	44.2
JULY'23	24-07-2023	45.9	42.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

DIGHAWANI VILLAGE		PDUN4	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	<b>DETECTION LIMIT</b>	<b>20</b>	<b>20</b>
JULY'23	10-07-2023	44.1	42.7
JULY'23	24-07-2023	44.7	42.8
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

MANAGER OFFICE		PDUN5	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	<b>DETECTION LIMIT</b>	<b>20</b>	<b>20</b>
JULY'23	10-07-2023	46.7	45.4
JULY'23	24-07-2023	47.4	45.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>



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## ENVIRONMENTAL MONITORING REPORT

### JAMUNIA UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423067



JULY 2023

Environment Laboratory  
NABL Accredited vide Cert. No. TC-7102  
CMPDI  
REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/58	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

MANAGER OFFICE PJUA1							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08-07-2023	09-07-2023	187	127	36	15	12	CLEAR / Light Breeze
22-07-2023	23-07-2023	216	153	42	13	BDL	CLEAR / CALM
23		<b>600</b>	<b>300</b>	-	<b>120</b>	<b>120</b>	

SUBSTATION PJUA2							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08-07-2023	09-07-2023	193	137	47	16	10	CLEAR / Light Breeze
22-07-2023	23-07-2023	211	145	39	14	BDL	CLEAR / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		<b>600</b>	<b>300</b>	-	<b>120</b>	<b>120</b>	

JAMUNIA VILLAGE PJUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
08-07-2023	09-07-2023	68	24	8	BDL	CLEAR / Light Breeze	
22-07-2023	23-07-2023	54	29	10	BDL	CLEAR / CALM	
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>		

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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
09-07-2023	10-07-2023	62	21	9	BDL	RAINY / LIGHT BREEZE	
23-07-2023	24-07-2023	73	29	8	BDL	CLOUDY / CALM	
NAAQS, 2009		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>		

*laximkhurme*

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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

MANAGER OFFICE: PJUN1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	<b>DETECTION LIMIT</b>	<b>20</b>	<b>20</b>
JULY'23	10-07-2023	44.4	42.7
JULY'23	24-07-2023	45.4	43.8
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>



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## ENVIRONMENTAL MONITORING REPORT

# MAHADEOPURI UG

PENCH AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423067



JULY 2023

Environment Laboratory  
NABL Accredited vide Cert. No. TC-7102  
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REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
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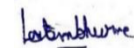
TEST REPORT NO.	RIN/TR/JULY-23/59	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

MANAGER OFFICE   PMUA1							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
06-07-2023	07-07-2023	224	157	45	16	12	CLOUDY / LIGHT BREEZE
20-07-2023	21-07-2023	191	139	35	14	10	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

LAMP ROOM   PMUA2							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
06-07-2023	07-07-2023	210	149	42	15	BDL	CLOUDY / LIGHT BREEZE
20-07-2023	21-07-2023	189	130	38	14	BDL	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

GUEST HOUSE PARASIA   PMUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
06-07-2023	07-07-2023	69	26	9	BDL	CLOUDY / LIGHT BREEZE	
20-07-2023	21-07-2023	57	20	10	BDL	CLOUDY / CALM	
NAAQS, 2009		100	60	80	80		

COLONY EDC DISPENSARY   PMUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
06-07-2023	07-07-2023	78	24	8	BDL	CLOUDY / LIGHT BREEZE	
20-07-2023	21-07-2023	65	29	9	BDL	CLOUDY / 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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-07-23 TO 14-08-23	

COAL STOCK BUNKAR   PMUF1				
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )		ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	
FROM	TO	5	5	
14-07-2023	15-07-2023	282	188	RAINY / LIGHT BREEZE

BG SIDING   PMUF2				
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )		ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	
FROM	TO	5	5	
14-07-2023	15-07-2023	257	179	RAINY / LIGHT BREEZE

EDC SIDING   PMUF3				
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )		ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	
FROM	TO	5	5	
14-07-2023	15-07-2023	240	167	RAINY / LIGHT BREEZE

*Lab Signature*

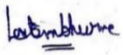
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7192
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SAMPLE DESCRIPTION	Water sample	
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: 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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23

MINE WATER DISCHARGE: PMUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
<b>DETECTION LIMIT</b>	2	10	4	2
06-07-2023	7.11	32	40	BDL
20-07-2023	7.17	28	36	BDL
<b>STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000</b>	5.5 - 9.0	100	250	10

  
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

FAN HOUSE: PMUN1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	<b>DETECTION LIMIT</b>	<b>20</b>	<b>20</b>
JULY'23	10-07-2023	69.7	68.2
JULY'23	24-07-2023	68.7	67.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY: PMUN2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	<b>DETECTION LIMIT</b>	<b>20</b>	<b>20</b>
JULY'23	10-07-2023	45.6	44.1
JULY'23	24-07-2023	45.4	43.8
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

# NEHARIA UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423067



JULY 2023

Environment Laboratory  
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/60	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

SAM OFFICE PNUA1							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09-07-2023	10-07-2023	199	132	38	13	11	RAINY / LIGHT BREEZE
23-07-2023	24-07-2023	214	151	30	12	10	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

LAMP ROOM/ SUBSTATION PNUA2							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
06-07-2023	07-07-2023	210	147	33	14	11	RAINY / LIGHT BREEZE
23-07-2023	24-07-2023	188	129	28	12	BDL	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
09-07-2023	10-07-2023	56	19	9	BDL	RAINY / LIGHT BREEZE	
23-07-2023	24-07-2023	66	26	10	BDL	CLOUDY / 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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
09-07-2023	10-07-2023	62	21	9	BDL	RAINY / LIGHT BREEZE	
23-07-2023	24-07-2023	73	29	8	BDL	CLOUDY / CALM	
NAAQS, 2009		100	60	80	80		

*labindhume*

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

COAL STCOK BUNKER PNUF1				
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )		ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM <sub>10</sub>	
FROM	TO			
23-07-2023	24-07-2023	276	182	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 :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)		
SAMPLING METHOD	LSOP 5	PERIOD OF PERFORMANCE OF LAB ACTIVITIES :	16-07-23 TO 14-08-23

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
09-07-2023	7.09	26	32	BDL
23-07-2023	7.18	28	34	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

ETP DISCHARGE: PNUW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
09-07-2023	6.90	38	48	BDL
23-07-2023	6.99	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**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

FAN HOUSE: PNUN1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY'23	10-07-2023	69.2	68.5
JULY'23	24-07-2023	69.8	68.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY: PNUN2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY'23	10-07-2023	45.6	43.8
JULY'23	24-07-2023	45.4	44.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

### NEW SETHIA OC

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423067




JULY 2023

Environment Laboratory  
NABL Accredited vide Cert. No. TC-7102  
CMPDI  
REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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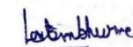
TEST REPORT NO.	RIN/TR/JULY-23/61	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

NEW SETHIA OC SITE   PNSOA1							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
12-07-2023	13-07-2023	194	147	36	12	BDL	RAINY / LIGHT BREEZE
26-07-2023	27-07-2023	176	122	42	13	11	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SAM OFFICE   PCOA1							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
12-07-2023	13-07-2023	194	152	33	13	BDL	RAINY / CALM
27-07-2023	28-07-2023	179	137	28	14	BDL	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
12-07-2023	13-07-2023	67	28	8	BDL	RAINY / CALM	
27-07-2023	28-07-2023	78	22	9	BDL	CLOUDY / CALM	
NAAQS, 2009		100	60	80	80		

CHINDA COLONY   PNSOA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
12-07-2023	13-07-2023	61	27	9	BDL	RAINY / LIGHT BREEZE	
26-07-2023	27-07-2023	76	20	8	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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23

MINE WATER DISCHARGE: PSOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
<b>DETECTION LIMIT</b>	<b>2</b>	<b>10</b>	<b>4</b>	<b>2</b>
12-07-2023	7.16	24	32	BDL
26-07-2023	7.20	26	36	BDL
<b>STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000</b>	<b>5.5 - 9.0</b>	<b>100</b>	<b>250</b>	<b>10</b>

*Labhandhane*

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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

NEAR MANAGER OFFICE: PSON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	10-07-2023	45.7	44.4
JULY'23	24-07-2023	46.2	44.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY CHINDA: PCON2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	10-07-2023	44.4	43.9
JULY'23	24-07-2023	45.8	44.8
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

# SHIVPURI OC

PENCH AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423067



JULY 2023

Environment Laboratory  
NABL Accredited vide Cert. No. TC-7102  
CMPDI  
REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
JARIPATKA, NAGPUR, PIN – 440 014

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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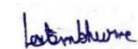
TEST REPORT NO.	RIN/TR/JULY-23/62	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

SITE OFFICE   PSOA1							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
11-07-2023	12-07-2023	168	133	30	13	BDL	RAINY / LIGHT BREEZE
25-07-2023	26-07-2023	201	152	25	14	BDL	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SUBSTATION VISHNUPURI-I   PV1UA2							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
11-07-2023	12-07-2023	217	168	47	13	BDL	RAINY / LIGHT BREEZE
25-07-2023	26-07-2023	188	142	41	12	BDL	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> 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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
11-07-2023	12-07-2023	51	18	8	BDL	BDL	RAINY / LIGHT BREEZE
25-07-2023	26-07-2023	66	23	9	BDL	BDL	CLOUDY / CALM
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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
12-07-2023	13-07-2023	67	28	8	BDL	BDL	RAINY / CALM
27-07-2023	28-07-2023	78	22	9	BDL	BDL	CLOUDY / 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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	DATE:-	16-07-23 TO 14-08-23

DATE(dd:mm:yy) OF SAMPLING		WEIGH BRIDGE		ENVIRONMENT CONDITIONS (Sky/Wind)
		UUOF1		
PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				
FROM	TO	SPM	PM <sub>10</sub>	
26-07-2023	27-07-2023	5	5	
		249	154	CLOUDY / CALM

*lastimhume*

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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

NEAR MANAGER OFFICE: PSON1		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY'23	10-07-2023	45.4	43.8
JULY'23	24-07-2023	45.1	44.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY: PSON2		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY'23	10-07-2023	45.2	43.7
JULY'23	24-07-2023	45.2	44.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

# THESGORA MATHANI UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423067




JULY 2023

Environment Laboratory  
NABL Accredited vide Cert. No. TC-7102  
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TEST REPORT NO.	RIN/TR/JULY-23/63	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

MATHANI VILLAGE PTUA1						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
10-07-2023	11-07-2023	55	18	9	BDL	RAINY / LIGHT BREEZE
24-07-2023	25-07-2023	63	29	8	BDL	CLOUDY / CALM
NAAQS, 2009		100	60	80	80	

SAM OFFICE PTUA2							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>		SO <sub>2</sub>
10-07-2023	11-07-2023	179	143	32	14	10	RAINY / LIGHT BREEZE
24-07-2023	25-07-2023	159	128	27	13	BDL	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

MANAGER OFFICE- MATHANI PTUA3							
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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>		SO <sub>2</sub>
10-07-2023	11-07-2023	221	155	40	13	BDL	RAINY / LIGHT BREEZE
24-07-2023	25-07-2023	186	139	33	11	BDL	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

JHURE COLONY- FILTER PLANT PTUA4						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )				ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
10-07-2023	11-07-2023	59	18	13	BDL	RAINY / LIGHT BREEZE
24-07-2023	25-07-2023	71	25	10	BDL	CLOUDY / CALM
NAAQS, 2009		100	60	80	80	

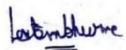
  
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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**FUGITIVE DUST MONITORING**

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		
SAMPLE DESCRIPTION	Air sample(Fugitive)		
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-07-23 TO 14-08-23	

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 <sub>10</sub>	
24-07-2023	25-07-2023	248	150	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 :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)	
SAMPLING METHOD	LSOP 5	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23

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
10-07-2023	7.44	28	40	BDL
24-07-2023	7.3	36	44	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

*Labimkhur*

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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

FAN HOUSE-MATHANI: PTUN1		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY'23	10-07-2023	69.7	68.4
JULY'23	24-07-2023	69.7	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
JULY'23	10-07-2023	45.2	43.9
JULY'23	24-07-2023	45.4	44.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45



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## ENVIRONMENTAL MONITORING REPORT

### URDHAN OC

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423067



JULY 2023

Environment Laboratory  
NABL Accredited vide Cert. No. TC-7102  
CMPDI  
REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
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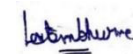
TEST REPORT NO.	RIN/TR/JULY-23/64	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08-07-2023	09-07-2023	241	168	46	15	11	Cloudy/Light Breeze
22-07-2023	23-07-2023	213	147	36	14	11	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> 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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
08-07-2023	09-07-2023	78	28	9	BDL	BDL	Cloudy/Light Breeze
22-07-2023	23-07-2023	62	21	10	BDL	BDL	CLOUDY/ CALM
NAAQS, 2009		100	60	80	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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
09-07-2023	10-07-2023	56	19	9	BDL	BDL	RAINY / LIGHT BREEZE
23-07-2023	24-07-2023	66	26	10	BDL	BDL	CLOUDY / CALM
NAAQS, 2009		100	60	80	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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
09-07-2023	10-07-2023	62	21	9	BDL	BDL	RAINY / LIGHT BREEZE
23-07-2023	24-07-2023	73	29	8	BDL	BDL	CLOUDY / CALM
NAAQS, 2009		100	60	80	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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES :	16-07-23 TO 14-08-23

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
08-07-2023	7.21	22	28	BDL
23-07-2023	7.12	24	32	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

ETP DISCHARGE: PUOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
08-07-2023	6.89	36	44	BDL
23-07-2023	7.01	30	40	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

*Letimkhure*  
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**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

MANAGER OFFICE: PUON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	<b>DETECTION LIMIT</b>	<b>20</b>	<b>20</b>
JULY'23	10-07-2023	47.6	45.2
JULY'23	24-07-2023	47.8	44.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>



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## ENVIRONMENTAL MONITORING REPORT

# VISHNUPURI-II UG

PENCH AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423067



JULY 2023

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

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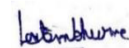
TEST REPORT NO.	RIN/TR/JULY-23/66	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
11-07-2023	12-07-2023	179	128	41	12	BDL	RAINY / LIGHT BREEZE
25-07-2023	26-07-2023	192	143	34	13	10	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> 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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
11-07-2023	12-07-2023	217	168	47	13	BDL	RAINY / LIGHT BREEZE
25-07-2023	26-07-2023	188	142	41	12	BDL	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> 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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
11-07-2023	12-07-2023	51	18	8	BDL	RAINY / LIGHT BREEZE	
25-07-2023	26-07-2023	66	23	9	BDL	CLOUDY / CALM	
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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
12-07-2023	13-07-2023	67	28	8	BDL	RAINY / CALM	
27-07-2023	28-07-2023	78	22	9	BDL	CLOUDY / 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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-07-23 TO 14-08-23	

DATE(dd:mm:yy) OF SAMPLING		WEIGH BRIDGE   PBOF1		ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )		
		SPM	PM <sub>10</sub>	
		5	5	
25-07-2023	26-07-2023	248	141	CLOUDY / CALM

*Leetimbhume*

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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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES :	16-07-23 TO 14-08-23

MINE WATER DISCHARGE: PV2UW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
11-07-2023	7.30	34	44	BDL
26-07-2023	7.21	36	40	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

*Latimburu*

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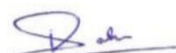
**NOISE LEVEL MONITORING DATA**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

FAN HOUSE UG-II: PV2UN1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	<b>DETECTION LIMIT</b>	<b>20</b>	<b>20</b>
JULY'23	10-07-2023	68.2	67.4
JULY'23	24-07-2023	68.7	67.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>



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## ENVIRONMENTAL MONITORING REPORT

### CWS TADALI

CWS TADALI

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



JULY 2023

**Environment Laboratory**  
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TEST REPORT NO.	RIN/TR/JULY-23/53	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 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)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09-07-2023	10-07-2023	240	150	37	11	BDL	CLEAR / CALM
25-07-2023	26-07-2023	247	132	49	10	BDL	RAINY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	13	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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
09-07-2023	10-07-2023	36	26	10	BDL	BDL	CLEAR / CALM
25-07-2023	26-07-2023	32	20	7	BDL	BDL	RAINY / 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 <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09-07-2023	10-07-2023	130	34	28	10	10	CLEAR / CALM
25-07-2023	26-07-2023	128	30	24	8	BDL	RAINY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> 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	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>		
09-07-2023	10-07-2023	40	25	8	BDL	BDL	CLEAR / CALM
25-07-2023	26-07-2023	37	23	9	BDL	BDL	RAINY / 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	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-23 TO 14-08-23

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
11-07-2023	8.20	24	32	2.6
26-07-2023	8.00	20	28	3.0
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**

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

<b>NEAR WORKSHOP: CWSN1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	12-07-2023	60.9	59.8
JULY'23	20-07-2023	54.6	52.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY(CWS): CWSN2</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	12-07-2023	47.1	46.5
JULY'23	20-07-2023	45.5	43.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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