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## ENVIRONMENTAL MONITORING REPORT

# BALLARPUR OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## CMPDI

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

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>		<b>Test Report</b>		
TEST REPORT NO.	RIN/TR/OCT-21/27	DATE OF ISSUE	25-11-21	
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR			
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021			
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)			
NAME OF AREA	BALLARPUR	SAMPLING PLAN : LQR 47		
NAME OF PROJECT	BALLARPUR OC			
SAMPLE DESCRIPTION	Air sample			
SAMPLING METHOD : LSOP 4				

MANAGER OFFICE-BALLARPUR UG BBUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
09-10-21	10-10-21	232	172	47	10	BDL	Cloudy / Lightbreeze
22-10-21	23-10-21	221	165	53	12	BDL	Cloudy / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH OCTOBER 2000		600	300	-	120	120	

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>	
08-10-21	09-10-21	229	167	47	11	BDL	Cloudy / Lightbreeze
21-10-21	22-10-21	234	176	59	10	BDL	Cloudy / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH OCTOBER 2000		600	300	-	120	120	

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>	
08-10-21	09-10-21	172	122	37	7	BDL	Cloudy / Lightbreeze
21-10-21	22-10-21	167	116	34	8	BDL	Cloudy / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH OCTOBER 2000		600	300	-	120	120	

FILTER PLANT COLONY BBUA4							
DATE(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>	
09-10-21	10-10-21	132	48	27	7	BDL	Cloudy / Lightbreeze
22-10-21	23-10-21	127	56	23	6	BDL	Cloudy / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

*J. Shrivastava*

Analysed by

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*Deepanshu sahu*

Deepanshu sahu  
Authorised Signatory

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

MINE WATER DISCHARGE: BBOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
*	*	*	*	*
21-10-21	7.28	24	36	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

ETP DISCHARGE: BBOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
*	*	*	*	*
21-10-21	6.78	22	32	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

*J. Shrivastava*

Analysed by

*Deepanshu Sahu*

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**NOISE LEVEL MONITORING DATA**

<b>CHP: BBUN1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	07-10-21	65.7	63.4
OCT'21	23-10-21	66.7	65.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY BALLARPUR UG: BBUN2</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	07-10-21	43.7	42.6
OCT'21	23-10-21	44.6	43.8
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

# BALLARPUR UG

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## CMPDI

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

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>		<b>Test Report</b>		
TEST REPORT NO.	RIN/TR/OCT-21/28	DATE OF ISSUE	25-11-21	
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR			
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021			
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)			
NAME OF AREA	BALLARPUR	SAMPLING PLAN : LQR 47		
NAME OF PROJECT	BALLARPUR UG			
SAMPLE DESCRIPTION	Air sample			
SAMPLING METHOD : LSOP 4				

MANAGER OFFICE- BALLARPUR UG BBUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
09-10-21	10-10-21	232	172	47	10	BDL	Cloudy / Lightbreeze
22-10-21	23-10-21	221	165	53	12	BDL	Cloudy / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

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>	
08-10-21	09-10-21	229	167	47	11	BDL	Cloudy / Lightbreeze
21-10-21	22-10-21	234	176	59	10	BDL	Cloudy / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

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>	
08-10-21	09-10-21	172	122	37	7	BDL	Cloudy / Lightbreeze
21-10-21	22-10-21	167	116	34	8	BDL	Cloudy / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

FILTER PLANT COLONY BBUA4							
DATE(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>	
09-10-21	10-10-21	132	48	27	7	BDL	Cloudy / Lightbreeze
22-10-21	23-10-21	127	56	23	6	BDL	Cloudy / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

*J. Shrivastava*

Analysed by

*Deepanshu sahu*  
Deepanshu sahu  
Authorised Signatory

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

MINE WATER DISCHARGE: BBUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
*	*	*	*	*
22-10-21	7.43	16	24	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



Analysed by


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Authorised Signatory

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**NOISE LEVEL MONITORING DATA**

<b>FAN HOUSE: BBUN1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	07.10.2021	73.4	72.3
OCT'21	23.10.2021	71.9	70.8
<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
OCT'21	07.10.2021	43.7	42.6
OCT'21	23.10.2021	44.6	43.8
<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. 4634420034



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## CMPDI

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

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/OCT-21/30	DATE OF ISSUE	25-11-21
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	BALLARPUR	SAMPLING PLAN :	LQR 47
NAME OF PROJECT	GOURI I & II A OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD :	LSOP 4		

MANAGER OFFICE-GOURI-I OC		BGOA1					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
07-10-21	08-10-21	237	167	67	14	10	Cloudy/Lightbreeze
20-10-21	21-10-21	226	157	58	12	BDL	Cloudy/Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SAM OFFICE GOURI SUB AREA		BGOA2					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
06-10-21	07-10-21	222	147	47	13	10	Clear/Lightbreeze
19-10-21	20-10-21	228	156	56	11	BDL	Clear/Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

GOURI COLONY FILTER PLANT		BSOA3					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
07-10-21	08-10-21	127	52	24	7	BDL	Cloudy/Lightbreeze
20-10-21	21-10-21	124	58	26	6	BDL	Cloudy/Lightbreeze
NAAQS, 2009		-	100	60	80	80	

GOURI VILLAGE		BGOA4					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
05-10-21	06-10-21	118	47	22	6	BDL	Cloudy/Lightbreeze
18-10-21	19-10-21	127	49	24	7	BDL	Cloudy/Lightbreeze
NAAQS, 2009		-	100	60	80	80	

*J. Shrivastava*

Analysed by

*Deepanshu Sahu*

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

MINE WATER DISCHARGE: BGOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
*	*	*	*	*
20-10-21	7.12	26	32	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

ETP DISCHARGE: BGOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
*	*	*	*	*
20-10-21	7.44	18	24	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

*J. Shrivastava*

Analysed by

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**NOISE LEVEL MONITORING DATA**

<b>CHP: BGON1</b>		<b>NOISE LEVEL IN dB(A)</b>	
<b>MONTH</b>	<b>DATE OF SAMPLE COLLECTION</b>	<b>DAY TIME</b>	<b>NIGHT TIME</b>
	<b>DETECTION LIMIT</b>	20	20
OCT'21	07-10-21	63.8	62.6
OCT'21	23-10-21	67.9	66.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>GOURI COLONY: BSON2</b>		<b>NOISE LEVEL IN dB(A)</b>	
<b>MONTH</b>	<b>DATE OF SAMPLE COLLECTION</b>	<b>DAY TIME</b>	<b>NIGHT TIME</b>
	<b>DETECTION LIMIT</b>	20	20
OCT'21	07-10-21	44.7	43.7
OCT'21	23-10-21	44.8	43.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

# GOURI DEEP OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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TEST REPORT NO.	RIN/TR/OCT-21/29	DATE OF ISSUE	25-11-21
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	BALLARPUR	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	GOURI DEEP OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE BGDO1							
DATE(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>	
04-10-21	05-10-21	242	172	52	14	10	Cloudy/Lightbreeze
17-10-21	18-10-21	237	164	56	12	BDL	Cloudy/Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

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	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>x</sub>	So <sub>x</sub>	
04-10-21	05-10-21	134	56	29	8	BDL	Cloudy/Lightbreeze
17-10-21	18-10-21	138	54	24	7	BDL	Cloudy/Lightbreeze
NAAQS, 2009		-	100	60	80	80	

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	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>x</sub>	So <sub>x</sub>	
04-10-21	05-10-21	122	48	24	6	BDL	Cloudy/Lightbreeze
17-10-21	18-10-21	129	46	28	7	BDL	Cloudy/Lightbreeze
NAAQS, 2009		-	100	60	80	80	

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	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>x</sub>	So <sub>x</sub>	
04-10-21	05-10-21	132	56	26	7	BDL	Cloudy/Lightbreeze
17-10-21	18-10-21	124	58	22	6	BDL	Cloudy/Lightbreeze
NAAQS, 2009		-	100	60	80	80	

*J. Shrivastava*

Analysed by

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

MINE WATER DISCHARGE: 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
*	*	*	*	*
17-10-21	7.78	16	24	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
*	*	*	*	*
17-10-21	7.98	26	36	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



Analysed by


Deepanshu sahu  
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**NOISE LEVEL MONITORING DATA**

<b>MANAGER OFFICE:</b>		<b>BGON1</b>	
<b>MONTH</b>	<b>DATE OF SAMPLE COLLECTION</b>	<b>NOISE LEVEL IN dB(A)</b>	
	<b>DETECTION LIMIT</b>	<b>DAY TIME</b>	<b>NIGHT TIME</b>
OCT'21	07-10-21	52.8	57.7
OCT'21	23-10-21	55.9	54.8
<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. 4634420034



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## CMPDI

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

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/OCT-21/31	DATE OF ISSUE	25-11-21
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance		
NAME OF AREA	BALLARPUR	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	NEW DHOPTALA OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD	LSOP 4		

SAM OFFICE- DHOPTALA SUB AREA   BND0A1							
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>	
08-10-21	09-10-21	228	157	56	14	10	Cloudy/Lightbreeze
21-10-21	22-10-21	224	162	54	12	BDL	Cloudy/Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

MANAGER OFFICE-DHOPTALA OC   BND0A2							
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>	
09-10-21	10-10-21	234	154	52	13	11	Cloudy/Lightbreeze
22-10-21	23-10-21	226	167	58	10	BDL	Cloudy/Lightbreeze
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 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>	
08-10-21	09-10-21	128	47	24	6	BDL	Cloudy/Lightbreeze
21-10-21	22-10-21	116	46	28	7	BDL	Cloudy/Lightbreeze
NAAQS, 2009		-	100	60	80	80	

MUTHRA VILLAGE   BND0A4							
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>	
04-10-21	05-10-21	134	56	29	8	BDL	Cloudy/Lightbreeze
17-10-21	18-10-21	138	54	24	7	BDL	Cloudy/Lightbreeze
NAAQS, 2009		-	100	60	80	80	

*J. Shay*

Analysed by

*Deepanshu sahu*

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**NOISE LEVEL MONITORING DATA**

<b>CHP: BNDON1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	07.10.2021	64.4	63.4
OCT'21	23.10.2021	61.6	60.8
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>SASTI COLONY: BSUN2</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	07.10.2021	43.5	42.6
OCT'21	23.10.2021	43.9	42.7
<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. 4634420034



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

### CMPDI

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

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 <p>TC-7102</p>
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TEST REPORT NO.	RIN/TR/OCT-21/33	DATE OF ISSUE	25-11-21
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	BALLARPUR	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	PAUNI II OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : L SOP 4			

MINE OFFICE   BP2OA1							
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>	
06-10-21	07-10-21	236	157	62	13	10	Cloudy/Lightbreeze
19-10-21	20-10-21	224	153	65	10	BDL	Cloudy/Lightbreeze
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 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>	
06-10-21	07-10-21	224	163	57	14	10	Cloudy/Lightbreeze
19-10-21	20-10-21	228	168	53	11	BDL	Cloudy/Lightbreeze
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 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>	
06-10-21	07-10-21	128	57	24	6	BDL	Cloudy/Lightbreeze
19-10-21	20-10-21	116	59	26	7	BDL	Cloudy/Lightbreeze
NAAQS, 2009		-	100	60	80	80	

WORKSHOP PAUNI OC   BPOA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in 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>	
05-10-21	06-10-21	222	155	54	13	10	Cloudy/Lightbreeze
18-10-21	19-10-21	229	157	56	12	BDL	Cloudy/Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

*J. Shrivastava*

Analysed by

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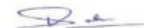
Deepanshu sahu  
Authorised Signatory

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

MINE WATER DISCHARGE: BP2OW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
*	*	*	*	*
19-10-21	8.01	22	32	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

<b>MANAGER OFFICE:</b>		<b>BPON1</b>	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
OCT'21	07-10-21	53.4	51.7
OCT'21	23-10-21	56.8	55.9
<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. 4634420034



OCTOBER 2021

### Environment Laboratory


NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

### 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/OCT-21/32	DATE OF ISSUE	25-11-21
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	BALLARPUR	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	PAUNI OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE-POUNI OC   BPOA1							
DATE(dd:mm:yy)OF SAMPLING		PARAMETERS (24 hourly values in µg/m <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	
05-10-21	06-10-21	237	162	65	14	10	Cloydy/Lightbreeze
18-10-21	19-10-21	226	167	62	12	BDL	Cloydy/Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

WORKSHOP PAUNI OC   BPOA2							
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	
05-10-21	06-10-21	222	155	54	13	10	Cloydy/Lightbreeze
18-10-21	19-10-21	229	157	56	12	BDL	Cloydy/Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

PAUNI VILLAGE   BPOA3							
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	
05-10-21	06-10-21	128	52	25	7	BDL	Cloydy/Lightbreeze
18-10-21	19-10-21	124	56	22	6	BDL	Cloydy/Lightbreeze
NAAQS, 2009		-	100	60	80	80	

GOURI VILLAGE   BGOA4							
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	
05-10-21	06-10-21	118	47	22	6	BDL	Cloudy/Lightbreeze
18-10-21	19-10-21	127	49	24	7	BDL	Cloudy/Lightbreeze
NAAQS, 2009		-	100	60	80	80	

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

MINE WATER DISCHARGE: 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
*	*	*	*	*
18-10-21	7.64	22	32	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
*	*	*	*	*
18-10-21	7.85	18	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**

<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
OCT'21	07-10-21	53.5	53.4
OCT'21	23-10-21	56.5	55.7
<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
OCT'21	07-10-21	44.7	43.7
OCT'21	23-10-21	44.8	43.9
<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. 4634420034



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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TEST REPORT NO.	RIN/TR/OCT-21/34	DATE OF ISSUE	25-11-21
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	BALLARPUR	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	SASTI OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SAM OFFICE SASTI OC BSOA1							
DATE(dd:mm:yy)OF SAMPLING		PARAMETERS (24 hourly values in µg/m <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>	
07-10-21	08-10-21	237	154	52	13	11	Cloudy/Lightbreeze
20-10-21	21-10-21	224	147	44	12	10	Cloudy/Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	16	

AREA STORE BSOA2							
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>	
07-10-21	08-10-21	222	134	47	10	BDL	Cloudy/Lightbreeze
20-10-21	21-10-21	228	128	42	9	BDL	Cloudy/Lightbreeze
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 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>	
07-10-21	08-10-21	127	52	24	7	BDL	Cloudy/Lightbreeze
20-10-21	21-10-21	124	58	26	6	BDL	Cloudy/Lightbreeze
NAAQS, 2009		-	100	60	80	80	

SASTI VILLAGE BSUA4							
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>x</sub>	So <sub>x</sub>	
09-10-21	10-10-21	122	42	26	7	BDL	Cloudy/Lightbreeze
22-10-21	23-10-21	132	45	22	6	BDL	Cloudy/Lightbreeze
NAAQS, 2009		-	100	60	80	80	

*J. Shrivastava*

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*Deepanshu sahu*

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

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
*	*	*	*	*
20-10-21	7.29	16	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
*	*	*	*	*
20-10-21	7.93	24	36	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
*	*	*
20-10-21	18	10.8
GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS GSR 801E EPA 1993	100	30



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**NOISE LEVEL MONITORING DATA**

<b>CHP:</b>		<b>BSON1</b>	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
OCT'21	07.10.2021	65.3	64.2
OCT'21	23.10.2021	65.9	64.9
<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)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
OCT'21	07.10.2021	44.7	43.7
OCT'21	23.10.2021	44.8	43.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

### SASTI UG

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



OCTOBER 2021

### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

### CMPDI

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

AN ISO 9001:2015 COMPANY



<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/OCT-21/35	DATE OF ISSUE	25-11-21
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	BALLARPUR	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	SASTI UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <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>	
08-10-21	09-10-21	228	157	56	14	10	Cloudy/Lightbreeze
21-10-21	22-10-21	224	162	54	12	BDL	Cloudy/Lightbreeze
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>	
09-10-21	10-10-21	234	154	52	13	11	Cloudy/Lightbreeze
22-10-21	23-10-21	226	167	58	10	BDL	Cloudy/Lightbreeze
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>	
08-10-21	09-10-21	128	47	24	6	BDL	Cloudy/Lightbreeze
21-10-21	22-10-21	116	46	28	7	BDL	Cloudy/Lightbreeze
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>	
09-10-21	10-10-21	122	42	26	7	BDL	Cloudy/Lightbreeze
22-10-21	23-10-21	132	45	22	6	BDL	Cloudy/Lightbreeze
NAAQS, 2009		-	100	60	80	80	

*J. Shrivastava*

Analysed by


*Deepanshu sahu*

Deepanshu sahu  
Authorised Signatory

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

MINE WATER DISCHARGE: BSUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
*	*	*	*	*
22-10-21	7.44	22	36	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

  
Analysed by

  
Deepanshu sahu  
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**NOISE LEVEL MONITORING DATA**

<b>FAN HOUSE:</b>		<b>BSUN1</b>	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	07.10.2021	71.8	70.6
OCT'21	23.10.2021	69.7	68.9
<b>NOISE POLLUTION (REGULATION AND</b>		<b>75</b>	<b>70</b>

<b>SASTI COLONY:</b>		<b>BSUN2</b>	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	07.10.2021	43.5	42.6
OCT'21	23.10.2021	43.9	42.7
<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. 4634420034



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## 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/OCT-21/17	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	CHANDRAPUR	SAMPLING PLAN	LQR 47
NAME OF PROJECT	BHATADI OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD	LSOP 4		

BHATADI SECURITY POST CBOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09-10-21	10-10-21	290	176	53	30	12	Clear Sky / L.Breeze
27-10-21	28-10-21	286	172	49	26	BDL	Clear Sky / L.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>	
10-10-21	11-10-21	276	155	55	35	14	Clear Sky / L.Breeze
28-10-21	29-10-21	272	151	51	31	10	Clear Sky / L.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	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
10-10-21	11-10-21	149	74	27	20	BDL	Clear Sky / L.Breeze
27-10-21	28-10-21	145	70	23	16	BDL	Clear Sky / L.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	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09-10-21	10-10-21	160	68	23	18	BDL	Clear Sky / L.Breeze
27-10-21	28-10-21	156	64	19	14	BDL	Clear Sky / L.Breeze
NAAQS, 2009		-	100	60	80	80	

*R. Annapurna*

Analysed by

*Deepanshu sahu*

Deepanshu sahu  
Authorised Signatory

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**FUGITIVE DUST MONITORING**

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

WORKSHOP CBOF1					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	
30-Oct-21	31-Oct-21	382	244	66	Cloudy/L.Breeze

CHP/MANAGER CBOF2					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	
30-Oct-21	31-Oct-21	389	261	63	Cloudy/L.Breeze

WEIGH BRIDGE CBOF3					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	
30-Oct-21	31-Oct-21	413	276	61	Cloudy/L.Breeze

*R. Annapurna*

Analysed by



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

MINE WATER DISCHARGE: 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
*	*	*	*	*
29-10-21	8.7	60	76	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	

ETP DISCHARGE: CBOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
*	*	*	*	*
29-10-21	8.2	56	52	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	

STP(DOMESTIC EFFLUENT)TREATED: CBOW3		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS (in mg/l)	BOD(in mg/l)
DETECTION LIMIT	10	2
*	*	*
29-10-21	72	11.4
GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS GSR 801E EPA 1993	100	30

*R. Annapurna*

Analysed by



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**NOISE LEVEL MONITORING DATA**

<b>CHP: CBON1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	11-10-21	53.4	57.7
OCT'21	29-10-21	66.8	65.7
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY: CBON2</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	11-10-21	43.3	41.8
OCT'21	29-10-21	43.6	42.8
<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. 4634420034



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

### 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/OCT-21/18	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	CHANDRAPUR	SAMPLING PLAN :	LQR 47
NAME OF PROJECT	CRC UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD :	LSOP 4		

MANAGER OFFICE MAHAKALI UG CMUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <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>	
12-10-21	13-10-21	294	158	58	32	13	CLOUDY/L.BREEZE
25-10-21	26-10-21	298	162	62	36	17	CLOUDY/L.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 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>	
13-10-21	14-10-21	306	179	60	36	14	CLOUDY/L.BREEZE
27-10-21	28-10-21	271	185	54	35	13	CLOUDY/L.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 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>	
13-10-21	14-10-21	274	186	44	35	16	CLOUDY/L.BREEZE
27-10-21	28-10-21	267	181	50	31	10	CLOUDY/L.BREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY (MAHAKALI UG) CMUA4							
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>	
12-10-21	13-10-21	192	89	31	21	BDL	CLOUDY/L.BREEZE
25-10-21	26-10-21	196	93	35	25	12	CLOUDY/L.BREEZE
NAAQS, 2009		-	100	60	80	80	

*R. Annapurna*

Analysed by



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**FUGITIVE DUST MONITORING**

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

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>	PM <sub>2.5</sub>	
FROM	TO	5	5	2	CLOUDY,L.BREEZE
29.10.21	30.10.21	415	276	66	

*R. Annapurna*

Analysed by

*Deepanshu sahu*

Deepanshu sahu  
Authorised Signatory

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

MINE WATER DISCHARGE: CCRUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
*	*	*	*	*
26-10-21	7.6	32	44	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

*R. Annapurna*

Analysed by

*Deepanshu sahu*

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**NOISE LEVEL MONITORING DATA**

<b>CHP: CCRUN1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	13-10-21	55.3	53.6
OCT'21	28-10-21	65.6	64.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY: CCRUN2</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	13-10-21	43.4	41.9
OCT'21	28-10-21	43.7	42.9
<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. 4634420034



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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TEST REPORT NO.		RIN/TR/OCT-21/19	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER		GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.		WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)			
NAME OF AREA	CHANDRAPUR	SAMPLING PLAN : LQR 47		
NAME OF PROJECT	DRC UG			
SAMPLE DESCRIPTION	Air sample			
SAMPLING METHOD : LSOP 4				

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>	
03-10-21	04-10-21	272	147	49	33	13	Cloudy Sky / L.Breeze
16-10-21	17-10-21	270	145	47	31	11	Rainy Sky / L.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 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>	
03-10-21	04-10-21	242	139	51	30	12	Cloudy Sky / L.Breeze
16-10-21	17-10-21	240	137	49	28	10	Rainy Sky / L.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 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>	
03-10-21	04-10-21	163	67	25	14	BDL	Cloudy Sky / L.Breeze
16-10-21	17-10-21	161	65	23	12	BDL	Rainy Sky / L.Breeze
NAAQS, 2009		-	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	

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>	
08-10-21	09-10-21	237	136	52	31	12	Cloudy Sky / L.Breeze
16-10-21	17-10-21	235	134	50	29	10	Rainy Sky / L.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>	

*R. Annapurna*

Analysed by

*[Signature]*

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**FUGITIVE DUST MONITORING**

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

COAL BUNKER: CDUF1					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	
29.10.21	30.10.21	459	312	69	CLOUDY/L.BREEZE

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

MINE WATER DISCHARGE: CDRUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
*	*	*	*	*
16-10-21	7.6	68	72	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

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*Deepanshu sahu*

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**NOISE LEVEL MONITORING DATA**

<b>FAN HOUSE: CDRUN1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	13-10-21	73.4	71.7
OCT'21	28-10-21	69.8	68.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>DURGAPUR COLONY: CDRUN2</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	13-10-21	44.4	43.2
OCT'21	28-10-21	44.8	43.6
<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. 4634420034



OCTOBER 2021

### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

### CMPDI

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

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/OCT-21/20	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	CHANDRAPUR	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	DURGAPUR OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE-SECTOR V   CDOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <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	
13-10-21	14-10-21	260	160	47	34	14	Cloudy Sky / L.Breeze
26-10-21	27-10-21	254	154	41	28	BDL	Cloudy Sky / L.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)
		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	
13-10-21	14-10-21	167	69	27	20	BDL	Cloudy Sky / L.Breeze
26-10-21	27-10-21	161	63	21	14	BDL	Cloudy Sky / L.Breeze
NAAQS, 2009		-	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	

MANAGER OFFICE Q-IV   CPOA1(Padmapur)							
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	
14-10-21	15-10-21	247	166	63	37	22	Cloudy Sky / L.Breeze
26-10-21	27-10-21	250	169	66	25	20	Cloudy Sky / L.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)
		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	
14-10-21	15-10-21	198	78	38	16	10	Cloudy Sky / L.Breeze
26-10-21	27-10-21	192	72	32	10	BDL	Cloudy Sky / L.Breeze
NAAQS, 2009		-	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	

*R. Annapurna*

Analysed by

*Deepanshu sahu*

Deepanshu sahu  
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**FUGITIVE DUST MONITORING**

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

CHP CDGOF1					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	
28-Oct-21	29-Oct-21	403	231	66	CLOUDY,CALM

CHECKPOST/AYYAPA MANDIR: CDGOF2					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	
28-Oct-21	29-Oct-21	385	209	61	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

MINE WATER DISCHARGE Q-IV CDOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
*	*	*	*	*
27-10-21	4.6	74	80	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
*	*	*	*	*
27-10-21	7.8	44	56	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
*	*	*
27-10-21	80	12
GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS GSR 801E EPA 1993	100	30

*R. Annapurna*

Analysed by

*Deepanshu sahu*

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**NOISE LEVEL MONITORING DATA**

CHP		CDON1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	13-10-21	64.3	63.4
OCT'21	28-10-21	66.6	65.9
<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)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	13-10-21	44.4	43.2
OCT'21	28-10-21	44.8	43.6
<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. 4634420034



OCTOBER 2021

### Environment Laboratory


NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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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/OCT-21/22	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	CHANDRAPUR	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	HLP I & III UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SUBSTATION HLC I UG		CHUA1					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
10-10-21	11-10-21	278	202	48	32	13	Cloudy Sky / Lightbreeze
23-10-21	24-10-21	282	206	52	36	16	Cloudy Sky / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

PIT OFFICE - HLC-I INCLINE		CHUA2					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
10-10-21	11-10-21	259	185	51	30	12	Cloudy Sky / Lightbreeze
23-10-21	24-10-21	263	189	55	34	15	Cloudy Sky / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

HLC-III COLONY		CHUA3					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
10-10-21	11-10-21	180	83	29	20	BDL	Cloudy Sky / Lightbreeze
23-10-21	24-10-21	184	87	33	24	12	Cloudy Sky / Lightbreeze
NAAQS, 2009		-	100	60	80		

RAJIV GANDHI ENGG. COLLEGE		CHUA4					Rainy/Windy
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
10-10-21	11-10-21	181	85	31	21	BDL	Cloudy Sky / Lightbreeze
23-10-21	24-10-21	185	89	35	25	13	Cloudy Sky / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

*R. Annapurna*

Analysed by

*Deepanshu*

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

MINE WATER DISCHARGE(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
*	*	*	*	*
23-10-21	7.8	30	44	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
*	*	*	*	*
23-10-21	7.2	34	48	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

*R. Annapurna*

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**NOISE LEVEL MONITORING DATA**

<b>FAN HOUSE-I</b>		<b>CHUN1</b>	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
OCT'21	13-10-21	45.7	44.3
OCT'21	28-10-21	63.6	62.8
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY-I</b>		<b>CHUN2</b>	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
OCT'21	13-10-21	42.7	40.7
OCT'21	28-10-21	43.4	42.4
<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. 4634420034



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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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/OCT-21/21	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	CHANDRAPUR	SAMPLING PLAN :	LQR 47
NAME OF PROJECT	HLP OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD :	LSOP 4		

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>	
12-10-21	13-10-21	279	173	47	35	14	Cloudy Sky /L.BREEZE
25-10-21	26-10-21	272	166	40	28	BDL	Cloudy Sky /L.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>	
11-10-21	12-10-21	286	166	56	28	11	Cloudy Sky /L.BREEZE
24-10-21	25-10-21	283	163	53	23	BDL	Cloudy Sky /L.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>	
11-10-21	12-10-21	159	75	28	16	BDL	Cloudy Sky /L.BREEZE
24-10-21	25-10-21	152	68	21	15	BDL	Cloudy Sky /L.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>	
12-10-21	13-10-21	188	77	26	20	BDL	Cloudy Sky /L.BREEZE
25-10-21	26-10-21	181	70	20	18	BDL	Cloudy Sky /L.BREEZE
NAAQS, 2009		-	100	60	80	80	

*R. Annapurna*

Analysed by

*Deepanshu sahu*

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**FUGITIVE DUST MONITORING**

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

MAIN CHP: CHLOF1					
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>	
FROM	TO	5	5	2	
29-Oct-21	30-Oct-21	454	309	66	CLOUDY/CALM

RAILWAY SIDING CHLOF2					
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>	
FROM	TO	5	5	2	
29-Oct-21	30-Oct-21	428	292	64	CLOUDY/CALM

WEIGH BRIDGE CHLOF3					
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>	
FROM	TO	5	5	2	
30-Oct-21	31-Oct-21	448	293	66	CLOUDY/CALM

*R. Annapurna*

Analysed by



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

MINE WATER DISCHARGE: 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
*	*	*	*	*
24-10-21	4.6	70	76	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

*R. Annapurna*

Analysed by

*Deepanshu sahu*

Deepanshu sahu  
Authorised Signatory

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**NOISE LEVEL MONITORING DATA**

<b>CHP</b>		<b>CHON1</b>	
<b>MONTH</b>	<b>DATE OF SAMPLE COLLECTION</b>	<b>NOISE LEVEL IN dB(A)</b>	
		<b>DAY TIME</b>	<b>NIGHT TIME</b>
	<b>DETECTION LIMIT</b>	20	20
OCT'21	13-10-21	62.5	61.7
OCT'21	28-10-21	65.7	64.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY HLP:</b>		<b>CHON2</b>	
<b>MONTH</b>	<b>DATE OF SAMPLE COLLECTION</b>	<b>NOISE LEVEL IN dB(A)</b>	
		<b>DAY TIME</b>	<b>NIGHT TIME</b>
	<b>DETECTION LIMIT</b>	20	20
OCT'21	13-10-21	43.6	42.8
OCT'21	28-10-21	43.8	42.9
<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. 4634420034



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## CMPDI

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

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/OCT-21/23	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	CHANDRAPUR	SAMPLING PLAN :	LQR 47
NAME OF PROJECT	MAHAKALI UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD :	LSOP 4		

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>	
12-10-21	13-10-21	294	158	58	32	13	Cloudy / Lightbreeze
25-10-21	26-10-21	298	162	62	36	17	Cloudy / Lightbreeze
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>	
13-10-21	14-10-21	306	179	60	36	14	Cloudy / Lightbreeze
27-10-21	28-10-21	271	185	54	35	13	Cloudy / Lightbreeze
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>	
13-10-21	14-10-21	274	186	44	35	16	Cloudy / Lightbreeze
27-10-21	28-10-21	267	181	50	31	10	Cloudy / Lightbreeze
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>	
12-10-21	13-10-21	192	89	31	21	BDL	Cloudy / Lightbreeze
25-10-21	26-10-21	196	93	35	25	12	Cloudy / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

*R. Annapurna*

Analysed by

*Deepanshu sahu*

Deepanshu sahu  
Authorised Signatory

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**FUGITIVE DUST MONITORING**

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

COAL BUNKER: CMUF1					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	
30-Oct-21	31-Oct-21	473	329	62	CLOUDY/CALM

*R. Annapurna*

Analysed by

*Deepanshu sahu*

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

MINE WATER DISCHARGE: 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
*	*	*	*	*
25-10-21	7.52	36	44	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

*R. Annapurna*

Analysed by

*Deepanshu sahu*

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**NOISE LEVEL MONITORING DATA**

<b>FAN HOUSE: CMUN1</b>			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	13-10-21	69.3	67.6
OCT'21	28-10-21	71.4	69.5
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY(MAHAKALI): CMUN2</b>			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	13-10-21	44.2	42.8
OCT'21	28-10-21	43.9	42.9
<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. 4634420034



OCTOBER 2021

### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

### 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/OCT-21/24	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	CHANDRAPUR	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	MANA UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD	LSOP 4		

MANAGER OFFICE   CMUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <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>	
11-10-21	12-10-21	281	147	50	32	13	Cloudy / Lightbreeze
24-10-21	25-10-21	274	140	43	25	BDL	Cloudy / Lightbreeze
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 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>	
11-10-21	12-10-21	298	162	57	29	12	Cloudy / Lightbreeze
24-10-21	25-10-21	291	155	44	22	BDL	Cloudy / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY (NANDGAON)   CNUA4							
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>	
12-10-21	13-10-21	188	77	26	20	BDL	Cloudy / Lightbreeze
25-10-21	26-10-21	181	70	20	18	BDL	Cloudy / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

MANA VILLAGE   CMUA4							
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>	
11-10-21	12-10-21	159	75	28	16	BDL	Cloudy / Lightbreeze
24-10-21	25-10-21	152	68	21	15	BDL	Cloudy / Lightbreeze
		-	100	60	80	80	

*R. Annapurna*

Analysed by



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

MINE WATER DISCHARGE: 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
*	*	*	*	*
24-10-21	7.8	36	48	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

*R. Annapurna*

Analysed by



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**NOISE LEVEL MONITORING DATA**

<b>FAN HOUSE:</b>		<b>CMUN1</b>	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	13-10-21	70.4	68.6
OCT'21	28-10-21	69.6	68.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY(HLP OC):</b>		<b>CHON2</b>	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	13-10-21	43.6	42.8
OCT'21	28-10-21	43.8	42.9
<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. 4634420034



OCTOBER 2021

**Environment Laboratory**

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

**CMPDI**

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

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/OCT-21/25	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	CHANDRAPUR	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	NANDGAON UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD	LSOP 4		

MANAGER OFFICE NANDGAON UG		CNUA1					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
12-10-21	13-10-21	279	173	47	35	14	Cloudy / Lightbreeze
25-10-21	26-10-21	272	166	40	28	BDL	Cloudy / Lightbreeze
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 µg/m <sup>3</sup> )					
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
11-10-21	12-10-21	298	162	51	29	12	Cloudy / Lightbreeze
24-10-21	25-10-21	291	155	44	22	BDL	Cloudy / Lightbreeze
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 µg/m <sup>3</sup> )					
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
11-10-21	12-10-21	159	75	28	16	BDL	Cloudy / Lightbreeze
24-10-21	25-10-21	152	68	21	15	BDL	Cloudy / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

COLONY (NANDGAON)		CNUA4					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
12-10-21	13-10-21	188	77	26	20	BDL	Cloudy / Lightbreeze
25-10-21	26-10-21	181	70	20	18	BDL	Cloudy / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

*R. Annapurna*

Analysed by

*Deepanshu sahu*

Deepanshu sahu  
Authorised Signatory

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

MINE WATER DISCHARGE: 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
*	*	*	*	*
25-10-21	7.82	38	52	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

*R. Annapurna*

Analysed by

*Deepanshu sahu*

Deepanshu sahu  
Authorised Signatory

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**NOISE LEVEL MONITORING DATA**

<b>FAN HOUSE:</b>		<b>CNUN1</b>	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	13-10-21	72.8	71.5
OCT'21	28-10-21	70.8	69.8
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY HLP OC:</b>		<b>CHON2</b>	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	13-10-21	43.6	42.8
OCT'21	28-10-21	43.8	42.9
<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. 4634420034



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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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/OCT-21/26	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	CHANDRAPUR	SAMPLING PLAN :	LQR 47
NAME OF PROJECT	PADMAPUR OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD :	LSOP 4		

MANAGER OFFICE Q-IV/ CPOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <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>	
14-10-21	15-10-21	247	166	63	37	22	Cloudy Sky / L.Breeze
27-10-21	28-10-21	250	169	66	25	20	Cloudy Sky / L.Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

WARWAT VILLAGE/ CPOA2							
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>	
14-10-21	15-10-21	167	64	33	23	10	Cloudy Sky / L.Breeze
27-10-21	28-10-21	170	67	36	13	10	Cloudy Sky / L.Breeze
NAAQS, 2009		-	100	60	80	80	

KITADI VILLAGE/ CPOA3							
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>	
14-10-21	15-10-21	138	62	29	19	12	Cloudy Sky / L.Breeze
27-10-21	28-10-21	141	65	32	15	10	Cloudy Sky / L.Breeze
NAAQS, 2009		-	100	60	80	80	

VICHODA RAYATWARI VILLAGE/ CPOA4							
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>	
14-10-21	15-10-21	136	66	27	17	11	Cloudy Sky / L.Breeze
27-10-21	28-10-21	139	69	30	20	14	Cloudy Sky / L.Breeze
NAAQS, 2009		-	100	60	80	80	

*R. Annapurna*

Analysed by

*Deepanshu sahu*

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**FUGITIVE DUST MONITORING**

TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017) & PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016	
SAMPLE DESCRIPTION	Air sample(Fugitive)	
SAMPLING METHOD : LSOP 4		

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )			ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	
28-Oct-21	29-Oct-21	484	356	61	CLOUDY,L.BREEZE

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>	
28-Oct-21	29-Oct-21	462	332	67	CLOUDY,L.BREEZE

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

MINE WATER DISCHARGE SECTOR III: CPOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
*	*	*	*	*
27-10-21	7.52	36	40	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

ETP DISCHARGE: CPOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
*	*	*	*	*
27-10-21	8.02	44	48	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

MINE DISCHARGE -IV: CPOW3				
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
*	*	*	*	*
27-10-21	7.3	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**

<b>CHP: CPON1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
OCT'21	13-10-21	65.4	63.5
OCT'21	28-10-21	65.9	64.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>DURGAPUR COLONY: CDON2</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
OCT'21	13-10-21	44.4	43.2
OCT'21	28-10-21	44.8	43.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

### JUNA KUNADA OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



OCTOBER 2021

### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

### CMPDI

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

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/OCT-21/50	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	MAJRI	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	JUNA KUNADA OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

PIT OFFICE   MJOA1							
DATE(dd:mm:yy)OF SAMPLING		PARAMETERS (24 hourly values in µg/m <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>	
11-10-21	12-10-21	240	140	37	32	10	Rainy Sky / L.Breeze
26-10-21	27-10-21	262	155	40	33	12	Clear Sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SAM OFFICE CHARGAON   MJOA2							
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>	
12-10-21	13-10-21	222	131	31	25	BDL	Rainy Sky / L.Breeze
27-10-21	28-10-21	245	142	35	27	BDL	Clear Sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

EKTA NAGAR COLONY   MJOA3							
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>	
12-10-21	13-10-21	102	62	20	12	BDL	Rainy Sky / L.Breeze
27-10-21	28-10-21	120	75	23	17	BDL	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	

CHARGAON INTAKE WELL   MJOA4							
DATE(dd:mm:yy)OF SAMPLING		PARAMETERS (24 hourly values in µg/m <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>	
12-10-21	13-10-21	122	70	21	17	BDL	Rainy Sky / L.Breeze
27-10-21	28-10-21	143	84	25	19	BDL	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	



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**NOISE LEVEL MONITORING DATA**

<b>MANAGER OFFICE:</b>		<b>MJON1</b>	
<b>MONTH</b>	<b>DATE OF SAMPLE COLLECTION</b>	<b>NOISE LEVEL IN dB(A)</b>	
		<b>DAY TIME</b>	<b>NIGHT TIME</b>
	<b>DETECTION LIMIT</b>	20	20
OCT'21	11-10-21	45.7	43.8
OCT'21	26-10-21	45.4	43.8
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>EKTA NAGAR COLONY:</b>		<b>MTON2</b>	
<b>MONTH</b>	<b>DATE OF SAMPLE COLLECTION</b>	<b>NOISE LEVEL IN dB(A)</b>	
		<b>DAY TIME</b>	<b>NIGHT TIME</b>
	<b>DETECTION LIMIT</b>	20	20
OCT'21	11-10-21	45.9	42.8
OCT'21	26-10-21	45.2	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. 4634420034



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

### CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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TEST REPORT NO.	RIN/TR/OCT-21/52	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	MAJRI	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	NEW MAJRI-II(A) OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
02-10-21	03-10-21	209	100	32	25	BDL	Rainy Sky / L.Breeze
17-10-21	18-10-21	222	109	37	27	BDL	Clear Sky / 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>	
01-10-21	02-10-21	236	119	32	21	BDL	Rainy Sky / L.Breeze
16-10-21	17-10-21	259	138	36	28	BDL	Clear Sky / 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>	
02-10-21	03-10-21	97	55	17	12	BDL	Clear Sky / Calm
17-10-21	18-10-21	109	63	20	15	BDL	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
01-10-21	02-10-21	119	60	19	11	BDL	Rainy Sky / L.Breeze
02-10-21	03-10-21	105	55	18	9	BDL	Rainy Sky / L.Breeze
13-10-21	14-10-21	120	62	17	10	BDL	Rainy Sky / L.Breeze
13-10-21	14-10-21	127	68	19	13	BDL	Rainy Sky / L.Breeze
16-10-21	17-10-21	125	63	15	12	BDL	Clear Sky / Calm
17-10-21	18-10-21	133	79	17	11	BDL	Clear Sky / Calm
28-10-21	29-10-21	144	83	22	14	BDL	Clear Sky / Calm
29-10-21	30-10-21	136	80	19	12	BDL	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	



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

MINE WATER DISCHARGE: 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
*	*	*	*	*
29-10-21	7.6	24	36	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
*	*	*	*	*
29-10-21	7.77	28	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**

<b>FIELD MINE SHED:</b>		<b>MMON1</b>	
<b>MONTH</b>	<b>DATE OF SAMPLE</b>	<b>NOISE LEVEL IN dB(A)</b>	
	<b>COLLECTION</b>	<b>DAY TIME</b>	<b>NIGHT TIME</b>
	<b>DETECTION LIMIT</b>	20	20
OCT'21	11-10-21	50.9	47.7
OCT'21	26-10-21	50.7	47.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>KUCHNA COLONY:</b>		<b>MMON2</b>	
<b>MONTH</b>	<b>DATE OF SAMPLE</b>	<b>NOISE LEVEL IN dB(A)</b>	
	<b>COLLECTION</b>	<b>DAY TIME</b>	<b>NIGHT TIME</b>
	<b>DETECTION LIMIT</b>	20	20
OCT'21	11-10-21	45.4	43.7
OCT'21	26-10-21	45.6	43.5
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

# NEW MAJRI UG TO OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



OCTOBER 2021

### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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TEST REPORT NO.	RIN/TR/OCT-21/51	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	MAJRI	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	NEW MAJRI UG TO OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			


PATALA 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>	
01-10-21	02-10-21	236	119	32	21	BDL	Rainy Sky / L.Breeze
16-10-21	17-10-21	259	138	36	28	BDL	Clear Sky / 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>	
01-10-21	02-10-21	215	107	27	20	BDL	Rainy Sky / L.Breeze
16-10-21	17-10-21	230	125	33	25	BDL	Clear Sky / 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>	
01-10-21	02-10-21	244	142	37	30	10	Rainy Sky / L.Breeze
16-10-21	17-10-21	270	163	44	32	11	Clear Sky / 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	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
02-10-21	03-10-21	129	67	20	15	BDL	Rainy Sky / L.Breeze
17-10-21	18-10-21	146	72	23	17	BDL	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	

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

MINE WATER DISCHARGE: 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
*	*	*	*	*
17-10-21	7.54	30	36	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
*	*	*	*	*
17-10-21	7.7	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**

PIT OFFICE:		MMUN1	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	11-10-21	51.9	50.1
OCT'21	26-10-21	52.2	50.3
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY(MAJRI UG TO OC):		MMUN2	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	11-10-21	45.8	43.9
OCT'21	26-10-21	45.4	43.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

# TELWASA OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## CMPDI

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

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/OCT-21/53	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		

NAME OF AREA	MAJRI	SAMPLING PLAN : LQR 47
NAME OF PROJECT	TELWASA OC	
SAMPLE DESCRIPTION	Air sample	
SAMPLING METHOD : LSOP 4		

TELWASA SECURITY OFFICE   MTOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <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>	
11-10-21	12-10-21	184	122	32	23	BDL	Rainy Sky / Calm
26-10-21	27-10-21	216	135	38	31	BDL	Clear Sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SAM OFFICE   MTOA2							
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>	
11-10-21	12-10-21	196	130	30	20	BDL	Rainy Sky / Calm
26-10-21	27-10-21	227	140	36	28	BDL	Clear Sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

CHARGAON VILLAGE   MTOA3							
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>	
11-10-21	12-10-21	111	67	20	15	BDL	Rainy Sky / Calm
26-10-21	27-10-21	135	77	27	17	BDL	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	

EKTA NAGAR COLONY   MJOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <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>	
12-10-21	13-10-21	102	62	20	12	BDL	Rainy Sky / Calm
27-10-21	28-10-21	120	75	23	17	BDL	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	



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

DETP DISCHARGE: MTOW1		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS (in mg/l)	BOD(in mg/l)
DETECTION LIMIT	10	2
*	*	*
26-10-21	36	11
GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS GSR 801E EPA 1993	100	30



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**NOISE LEVEL MONITORING DATA**

NEAR PIT OFFICE:		MTON2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
			20
OCT'21	11-10-21	47.2	43.4
OCT'21	26-11-21	46.7	44.8
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

EKTA NAGAR COLONY:		MTON3	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
			20
OCT'21	11-10-21	45.9	42.8
OCT'21	26-11-21	45.2	42.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

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## ENVIRONMENTAL MONITORING REPORT

# YEKONA I & II OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## CMPDI

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

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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TEST REPORT NO.	RIN/TR/OCT-21/54	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	MAJRI	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	YEKONA I & II OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

DATE(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>	
12-10-21	13-10-21	229	133	30	22	BDL	Rainy Sky / L.Breeze
28-10-21	29-10-21	260	147	36	30	BDL	Clear Sky / 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>	


DATE(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>	
12-10-21	13-10-21	237	140	29	30	BDL	Rainy Sky / L.Breeze
28-10-21	29-10-21	250	155	42	31	BDL	Clear Sky / Calm
NAAQS, 2009		-	<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	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
13-10-21	14-10-21	108	68	22	17	BDL	Rainy Sky / L.Breeze
29-10-21	30-10-21	129	73	27	23	BDL	Clear Sky / Calm
NAAQS, 2009		-	<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	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
13-10-21	14-10-21	111	71	23	19	BDL	Rainy Sky / L.Breeze
29-10-21	30-10-21	133	80	26	21	BDL	Clear Sky / Calm
NAAQS, 2009		-	<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	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
13-10-21	14-10-21	105	54	19	12	BDL	Rainy Sky / L.Breeze
29-10-21	30-10-21	126	68	22	17	BDL	Clear Sky / Calm
NAAQS, 2009		-	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	

  
Analysed by

  
Deepanshu sahu  
Authorised Signatory

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

MINE WATER DISCHARGE: 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
*	*	*	**	*
29-10-21	7.34	26	40	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
*	*	*	*	*
29-10-21	7.55	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**

PIT OFFICE		MYON1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
OCT'21	11-10-21	48.3	45.4
OCT'21	26-10-21	48.7	45.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

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## ENVIRONMENTAL MONITORING REPORT

### ADASA UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



OCTOBER 2021

### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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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/OCT-21/1	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	NAGPUR	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	ADASA UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

PROJECT MANAGER OFFICE NAUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
04-10-21	05-10-21	265	152	46	24	11	Clear Sky / Lightbreeze
17-10-21	18-10-21	241	134	38	22	10	Clear Sky / 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							
DATE(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>	
04-10-21	05-10-21	158	74	36	26	12	Clear Sky / Lightbreeze
17-10-21	18-10-21	136	65	32	24	11	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	

COLONY WATER FILTER PLANT NSNUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
03-10-21	04-10-21	137	65	32	18	BDL	Clear Sky / L.Breeze
16-10-21	17-10-21	119	59	27	16	BDL	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	

KOTODI VILLAGE NSNUA4							
DATE(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>	
03-10-21	04-10-21	108	56	34	15	BDL	Clear Sky / L.Breeze
16-10-21	17-10-21	96	48	27	13	BDL	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	



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**NOISE LEVEL MONITORING DATA**

<b>FAN HOUSE: NAUN1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	05-10-21	62.6	61.8
OCT'21	18-10-21	62.4	61.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>MANAGER OFFICE: NAUN2</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	05-10-21	55.7	54.9
OCT'21	18-10-21	55.9	54.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

70

<b>COLONY (SAONER): NAUN3</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	05-10-21	43.4	42.6
OCT'21	18-10-21	44.5	43.7
<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.

JOB NO. 4634420034



OCTOBER 2021

### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## 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/OCT-21/2	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	NAGPUR	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	BHANEGAON OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

NEAR MANAGER OFFICE		NBOA1					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>	
07-10-21	08-10-21	226	117	42	18	12	CLOUDY / CALM
19-10-21	20-10-21	214	106	48	16	11	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

BINA SANGAM TEMPLE		NBOA2					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>	
07-10-21	08-10-21	117	56	28	16	BDL	CLOUDY / CALM
19-10-21	20-10-21	103	48	23	14	BDL	CLOUDY / CALM
NAAQS, 2009		-	100	60	80	80	

BINA VILLAGE		NBOA3					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>	
07-10-21	08-10-21	128	64	34	18	BDL	CLOUDY / CALM
19-10-21	20-10-21	110	58	27	16	BDL	CLOUDY / CALM
NAAQS, 2009		-	100	60	80	80	

DORLI VILLAGE		NBOA4					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>	
06-10-21	07-10-21	106	55	27	14	BDL	Cloudy/Calm
18-10-21	19-10-21	97	48	23	12	BDL	Cloudy/Calm
NAAQS, 2009		-	100	60	80	80	



Analysed by



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

MINE WATER DISCHARGE: 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
*	*	*	*	*
19-10-21	7.58	20	28	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



Analysed by



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**NOISE LEVEL MONITORING DATA**

<b>CONTRACTOR CAMP</b>		<b>NBON1</b>	
<b>MONTH</b>	<b>DATE OF SAMPLE COLLECTION</b>	<b>NOISE LEVEL IN dB(A)</b>	
	<b>DETECTION LIMIT</b>	<b>DAY TIME</b>	<b>NIGHT TIME</b>
OCT'21	06-10-21	56.4	55.6
OCT'21	18-10-21	57.3	56.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

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## ENVIRONMENTAL MONITORING REPORT

# GONDEGAON OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



OCTOBER 2021

### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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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/OCT-21/3	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	NAGPUR	SAMPLING PLAN :	LQR 47
NAME OF PROJECT	GONDEGAON OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD :	LSOP 4		

NEAR SUBSTATION NGOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <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>	
08-10-21	09-10-21	248	131	42	26	10	CLOUDY / CALM
20-10-21	21-10-21	275	146	49	28	12	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

GONDEGAON VILLAGE SCHOOL NGOA2							
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>	
08-10-21	09-10-21	91	47	21	15	BDL	CLOUDY / CALM
20-10-21	21-10-21	99	54	24	18	BDL	CLOUDY / CALM
NAAQS, 2009		-	100	60	80	80	

GUEST HOUSE/FILTER PLANT NGOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in 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>	
08-10-21	09-10-21	137	65	38	16	BDL	CLOUDY / CALM
20-10-21	21-10-21	121	58	34	14	BDL	CLOUDY / CALM
NAAQS, 2009		-	100	60	80	80	

GHATROHNA VILLAGE NGOA4							
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>	
08-10-21	09-10-21	96	54	24	14	BDL	CLOUDY / CALM
20-10-21	21-10-21	108	61	28	17	BDL	CLOUDY / CALM
NAAQS, 2009		-	100	60	80	80	



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

MINE WATER DISCHARGE 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
*	*	*	*	*
20-10-21	7.51	58	128	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
*	*	*	*	*
20-10-21	7.82	26	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**

<b>CHP</b>		<b>NGON1</b>	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
OCT'21	09-10-21	67.5	66.7
OCT'21	21-10-21	66.4	65.7
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>GONDEGAON VILAGE</b>		<b>NGON2</b>	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
OCT'21	09-10-21	42.5	41.7
OCT'21	21-10-21	42.2	41.3
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

<b>GHATROHNA VILLAGE:</b>		<b>NGON3</b>	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
OCT'21	09-10-21	42.3	41.6
OCT'21	21-10-21	42.4	41.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

<b>JUNI KAMPTEE VILLAGE:</b>		<b>NGON4</b>	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
OCT'21	09-10-21	42.2	42.5
OCT'21	21-10-21	42.5	42.7
<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. 4634420034



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## CMPDI

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

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>		<b>Test Report</b>		
TEST REPORT NO.	RIN/TR/OCT-21/4	DATE OF ISSUE	25.11.2021	
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR			
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021			
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)			
NAME OF AREA	NAGPUR	SAMPLING PLAN : LQR 47		
NAME OF PROJECT	INDER UG TO OC			
SAMPLE DESCRIPTION	Air sample			
SAMPLING METHOD : LSOP 4				

NEAR PIT NO.6 / MANAGER OFFICE NIOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08-10-21	09-10-21	198	152	36	24	12	CLOUDY /CALM
20-10-21	21-10-21	184	146	27	21	11	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>	
07-10-21	08-10-21	256	127	45	18	BDL	CLOUDY /CALM
19-10-21	20-10-21	234	114	38	16	BDL	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	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09-10-21	10-10-21	97	52	25	13	BDL	CLOUDY /CALM
21-10-21	22-10-21	115	64	30	16	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	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09-10-21	10-10-21	106	58	32	15	BDL	CLOUDY /CALM
21-10-21	22-10-21	93	47	27	13	BDL	CLOUDY /CALM
NAAQS, 2009		-	100	60	80	80	



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

MINE 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
*	*	*	*	*
20-10-21	7.66	26	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**

<b>PROJECT OFFICE: NION1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	09-10-21	56.3	55.4
OCT'21	21-10-21	56.4	55.6
<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. 4634420034



OCTOBER 2021

### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

### 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/OCT-21/5	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	NAGPUR	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	KAMPTEE DEEP OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SUBSTATION NKCA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <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>	
09-10-21	10-10-21	189	87	41	16	BDL	CLOUDY /CALM
21-10-21	22-10-21	162	74	35	14	BDL	CLOUDY /CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

JUNI KAMPTEE VILLAGE NKCA2							
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>	
09-10-21	10-10-21	116	48	25	15	BDL	CLOUDY /CALM
21-10-21	22-10-21	128	54	32	13	BDL	CLOUDY /CALM
NAAQS, 2009		-	100	60	80	80	

COLONY WATER TREATMENT PLANT NKCA3							
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>	
09-10-21	10-10-21	97	52	25	13	BDL	CLOUDY /CALM
21-10-21	22-10-21	115	64	30	16	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 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>	
09-10-21	10-10-21	106	58	32	15	BDL	CLOUDY /CALM
21-10-21	22-10-21	93	47	27	13	BDL	CLOUDY /CALM
NAAQS, 2009		-	100	60	80	80	

*K. Mallik*

Analysed by

*Deepanshu sahu*

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

MINE 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
*	*	*	*	*
21-10-21	7.54	32	52	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**

<b>CHP: NKC1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	09-10-21	66.5	65.7
OCT'21	21-10-21	67.2	66.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY(KAMPTEE): NKC2</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	09-10-21	42.4	41.6
OCT'21	21-10-21	42.3	41.6
<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. 4634420034



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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JARIPATKA, NAGPUR, PIN – 440 014

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/OCT-21/6	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	NAGPUR	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	PATANSAONGI UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

COLLIERY MANAGER OFFICE   NPTUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <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	
05-10-21	06-10-21	296	187	52	24	12	CLOUDY / CALM
18-10-21	19-10-21	271	164	47	22	11	Clear Sky / 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>	

SADBHAVAN NAGAR (FILTER PLANT)   NPTUA2							
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	
05-10-21	06-10-21	125	58	30	14	BDL	CLOUDY / CALM
18-10-21	19-10-21	139	66	38	18	BDL	Clear Sky / CALM
NAAQS, 2009		-	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	

NEAR LCH QR.   NPTUA3							
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	
05-10-21	06-10-21	142	67	32	15	BDL	CLOUDY / CALM
18-10-21	19-10-21	168	78	40	18	11	Clear Sky / CALM
NAAQS, 2009		-	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	

SAVARMENDHA VILLAGE.   NPTUA4							
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	
05-10-21	06-10-21	102	46	24	12	BDL	CLOUDY / CALM
18-10-21	19-10-21	117	54	31	16	BDL	Clear Sky / CALM
NAAQS, 2009		-	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	

*K. Malli*  
Analysed by

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

MINE 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>
*	*	*	*	*
18-10-21	7.62	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**

CHP: NPTUN1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	05-10-21	65.3	64.8
OCT'21	18-10-21	65.7	64.9
<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
OCT'21	05-10-21	43.5	42.7
OCT'21	18-10-21	43.6	42.8
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

### PIPLA UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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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/OCT-21/7	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	NAGPUR	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	PIPLA UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD	LSOP 4		

NEAR MAGZINE / MANAGER OFFICE		NPUA1					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
04-10-21	05-10-21	246	132	54	22	11	CLOUDY / CALM
16-10-21	17-10-21	229	127	51	20	BDL	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

IN ZONE- 4		NPUA2					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
04-10-21	05-10-21	209	127	50	18	BDL	CLOUDY / CALM
16-10-21	17-10-21	189	113	41	16	BDL	CLOUDY / CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

FILTER PLANT		NPUA3					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
04-10-21	05-10-21	126	56	34	16	BDL	CLOUDY / CALM
16-10-21	17-10-21	114	48	29	13	BDL	CLOUDY / CALM
NAAQS, 2009		-	100	60	80	80	

SHIV MANDIR		NPUA4					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
04-10-21	05-10-21	98	47	22	13	BDL	CLOUDY / CALM
16-10-21	17-10-21	87	42	19	11	BDL	CLOUDY / CALM
NAAQS, 2009		-	100	60	80	80	

*K. Mallik*  
Analysed by

*Deepanshu sahu*  
Deepanshu sahu  
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**NOISE LEVEL MONITORING DATA**

FAN HOUSE: NPUN1		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	06-10-21	59.2	58.5
OCT'21	18-10-21	61.2	60.5
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

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## ENVIRONMENTAL MONITORING REPORT

### SAONER UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



OCTOBER 2021

### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

### CMPDI

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

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/OCT-21/8	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	NAGPUR	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	SAONER UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

C.M OFFICE-SAONER-I UG NSNUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <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>	
03-10-21	04-10-21	248	143	52	22	12	Cloudy Sky / Calm
16-10-21	17-10-21	229	131	46	20	11	Clear Sky / 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>	

C.M OFFICE-SAONER-II UG NSNUA2							
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>	
03-10-21	04-10-21	217	126	41	19	11	Cloudy Sky / Calm
16-10-21	17-10-21	189	104	36	17	BDL	Clear Sky / 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>	

COLONY WATER FILTER PLANT NSNU3							
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>	
03-10-21	04-10-21	137	65	32	18	BDL	Clear Sky / L.Breeze
16-10-21	17-10-21	119	59	27	16	BDL	Clear Sky / Calm
NAAQS, 2009		-	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	

KOTODI VILLAGE NSNU4							
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>	
03-10-21	04-10-21	108	56	34	15	BDL	Clear Sky / L.Breeze
16-10-21	17-10-21	96	48	27	13	BDL	Clear Sky / Calm
NAAQS, 2009		-	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	

*K. Mallik*

Analysed by

*Deepanshu sahu*

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

MINE WATER DISCHARGE 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
*	*	*	*	*
16-10-21	8.16	22	28	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
*	*	*	*	*
16-10-21	7.76	24	32	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
*	*	*	*	*
16-10-21	7.71	20	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**

<b>FAN HOUSE-I: NSNUN1</b>			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	05-10-21	69.6	68.8
OCT'21	18-10-21	69.7	68.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>FAN HOUSE-II: NSNUN2</b>			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	05-10-21	68.9	67.9
OCT'21	18-10-21	68.5	67.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>FAN HOUSE-III: NSNUN3</b>			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	05-10-21	70.5	69.7
OCT'21	18-10-21	70.6	69.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY: NSNUN4</b>			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	05-10-21	43.4	42.6
OCT'21	18-10-21	44.5	43.7
<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. 4634420034



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## 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/OCT-21/9	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	NAGPUR	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	SILEWARA UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

WATER FILTER FLANT NSUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <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	
05-10-21	06-10-21	304	167	49	18	12	Cloudy/Calm
17-10-21	18-10-21	282	149	41	16	11	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 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	
05-10-21	06-10-21	291	156	47	15	BDL	Cloudy/Calm
17-10-21	18-10-21	275	143	42	13	BDL	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 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	
05-10-21	06-10-21	126	64	30	14	BDL	Cloudy/Calm
17-10-21	18-10-21	109	57	26	12	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 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	
05-10-21	06-10-21	147	69	32	13	BDL	Cloudy/Calm
17-10-21	18-10-21	129	58	28	11	BDL	Cloudy/Calm
NAAQS, 2009		-	100	60	80	80	

*K. Mallik*

Analysed by

*Deepanshu sahu*

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

MINE WATER DISCHARGE: 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
*	*	*	*	*
17-10-21	7.41	28	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**

<b>FAN HOUSE: NSUN1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	06-10-21	69.4	68.6
OCT'21	18-10-21	69.2	68.4
<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
OCT'21	06-10-21	42.5	41.7
OCT'21	18-10-21	42.3	41.5
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

# SINGORI OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



OCTOBER 2021

### Environment Laboratory


NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/OCT-21/10	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	NAGPUR	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	SINGORI OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

CONTRACTOR CAMP   NSOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <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>	
06-10-21	07-10-21	239	147	56	22	12	Cloudy/Calm
18-10-21	19-10-21	216	124	48	20	11	Cloudy/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SOHALI VILLAGE   NSOA2							
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>	
06-10-21	07-10-21	136	69	32	15	BDL	Cloudy/Calm
18-10-21	19-10-21	108	56	27	13	BDL	Cloudy/Calm
NAAQS, 2009		-	100	60	80	80	

HINGNA VILLAGE   NSOA3							
DATE(dd:mm:yy) OF SAMPLING		SPM					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
06-10-21	07-10-21	119	56	28	16	BDL	Cloudy/Calm
18-10-21	19-10-21	101	49	25	14	BDL	Cloudy/Calm
NAAQS, 2009		-	100	60	80	80	

DORLI VILLAGE   NBOA4							
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>	
06-10-21	07-10-21	106	55	27	14	BDL	Cloudy/Calm
18-10-21	19-10-21	97	48	23	12	BDL	Cloudy/Calm
NAAQS, 2009		-	100	60	80	80	



Analysed by



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

MINE WATER DISCHARGE: 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>
*	*	*	*	*
18-10-21	7.62	64	120	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**

<b>CONTRACTOR CAMP: NSON1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	06-10-21	57.2	56.4
OCT'21	18-10-21	55.2	54.5
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>SOHALI VILLAGE: NSON2</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	06-10-21	42.3	41.5
OCT'21	18-10-21	42.5	41.7
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

<b>NEAR DRILING SITE: NSON3</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	06-10-21	58.2	57.4
OCT'21	18-10-21	68.2	67.5
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>NEAR DOSING SITE: NSON4</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	06-10-21	57.5	56.7
OCT'21	18-10-21	65.4	64.6
<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. 4634420034



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

### CMPDI

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

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/OCT-21/84	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	CWS TADALI	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	CWS TADALI		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SUBSTATION: CWSA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <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>	
14-10-21	15-10-21	228	165	58	13	10	Cloudy Sky / L.Breeze
25-10-21	26-10-21	237	176	62	11	BDL	Clear Sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

NEAR FILTER PLANT: CWSA2							
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>	
14-10-21	15-10-21	142	77	33	7	BDL	Cloudy Sky / L.Breeze
25-10-21	26-10-21	134	56	28	6	BDL	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	

ADMINISTRATIVE BUILDING: CWSA3							
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>	
14-10-21	15-10-21	134	57	25	6	BDL	Cloudy Sky / L.Breeze
25-10-21	26-10-21	126	52	21	7	BDL	Clear Sky / 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 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>	
14-10-21	15-10-21	129	54	27	7	BDL	Cloudy Sky / L.Breeze
25-10-21	26-10-21	126	47	22	9	BDL	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	

*J. Shrivastava*

Analysed by

*Deepanshu sahu*

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

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
*	*	*	*	*
28-10-21	6.93	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**

<b>NEAR WORKSHOP: CWSN1</b>			
<b>MONTH</b>	<b>DATE OF SAMPLE COLLECTION</b>	<b>NOISE LEVEL IN dB(A)</b>	
		<b>DAY TIME</b>	<b>NIGHT TIME</b>
	<b>DETECTION LIMIT</b>	<b>20</b>	<b>20</b>
OCT'21	11-10-21	55.9	54.1
OCT'21	29-10-21	55.2	54.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY(CWS): CWSN2</b>			
<b>MONTH</b>	<b>DATE OF SAMPLE COLLECTION</b>	<b>NOISE LEVEL IN dB(A)</b>	
		<b>DAY TIME</b>	<b>NIGHT TIME</b>
	<b>DETECTION LIMIT</b>	<b>20</b>	<b>20</b>
OCT'21	11-10-21	44.2	43.4
OCT'21	29-10-21	44.1	43.5
<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. 4634420034



OCTOBER 2021

### Environment Laboratory


NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## CMPDI

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

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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TEST REPORT NO.	RIN/TR/OCT-21/11	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	UMRER	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	DINESH OCP		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE UM30A1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <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>	
08-10-21	09-10-21	266	167	46	35	12	Clear Sky / Calm
23-10-21	24-10-21	242	153	42	32	13	Clear Sky /L.Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

NEAR RLY. WEIGHT BRIDGE UM30A2							
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>	
09-10-21	10-10-21	233	140	36	27	BDL	Clear Sky /L.Breeze
24-10-21	25-10-21	256	159	40	30	BDL	Clear Sky /L.Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

PIPARDOL VILLAGE UM30A3							
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>	
13-10-21	14-10-21	163	88	27	22	BDL	Clear Sky / Calm
29-10-21	30-10-21	152	73	22	15	BDL	Clear Sky /L.Breeze
NAAQS, 2009		-	100	60	80	80	

WELSAKARA VILLAGE UM30A4							
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>	
14-10-21	15-10-21	142	75	23	17	BDL	Clear Sky /L.Breeze
28-10-21	29-10-21	159	79	24	20	BDL	Clear Sky /L.Breeze
NAAQS, 2009		-	100	60	80	80	



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

MINE WATER DISCHARGE: UM3OW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
*	*	*	*	*
23-10-21	7.63	32	44	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
*	*	*	*	*
23-10-21	8.1	22	36	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

PIT OFFICE		UGON1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
OCT'21	12-10-21	55.3	54.9
OCT'21	27-10-21	53.8	51.6
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

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## ENVIRONMENTAL MONITORING REPORT

# GOKUL OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## CMPDI

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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TEST REPORT NO.	RIN/TR/OCT-21/12	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	UMRER	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	GOKUL OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

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>	
07-10-21	08-10-21	199	103	32	23	BDL	Cloudy Sky / Calm
22-10-21	23-10-21	210	115	37	29	BDL	Cloudy Sky / 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 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>	
07-10-21	08-10-21	105	57	17	12	BDL	Cloudy Sky / L.Breeze
08-10-21	09-10-21	127	70	23	15	BDL	Clear Sky / Calm
13-10-21	14-10-21	132	73	25	19	BDL	Clear Sky / Calm
14-10-21	15-10-21	145	88	27	21	BDL	Clear Sky / L.Breeze
22-10-21	23-10-21	123	65	19	13	BDL	Clear Sky / Calm
23-10-21	24-10-21	137	78	22	20	BDL	Clear Sky / L.Breeze
28-10-21	29-10-21	127	73	19	17	BDL	Clear Sky / L.Breeze
29-10-21	30-10-21	130	70	20	14	BDL	Clear Sky / L.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>	
07-10-21	08-10-21	120	63	18	13	BDL	Cloudy Sky / L.Breeze
08-10-21	09-10-21	132	75	21	16	BDL	Clear Sky / Calm
13-10-21	14-10-21	109	60	17	15	BDL	Clear Sky / Calm
14-10-21	15-10-21	141	78	22	20	BDL	Clear Sky / L.Breeze
22-10-21	23-10-21	134	72	20	17	BDL	Clear Sky / Calm
23-10-21	24-10-21	130	69	19	14	BDL	Clear Sky / L.Breeze
28-10-21	29-10-21	135	75	18	15	BDL	Clear Sky / L.Breeze
29-10-21	30-10-21	127	66	21	17	BDL	Clear Sky / L.Breeze
NAAQS, 2009		-	100	60	80	80	

POLGAON VILLAGE UGOA4							
DATE(dd:mm:yy) AND TIME (12 hr format) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM <sub>5</sub>	PM <sub>10</sub> <sub>5</sub>	PM <sub>2.5</sub> <sub>2</sub>	NO <sub>2</sub> <sub>6</sub>	SO <sub>2</sub> <sub>10</sub>	
07-10-21	08-10-21	115	57	19	15	BDL	Cloudy Sky / L.Breeze
08-10-21	09-10-21	129	77	21	12	BDL	Clear Sky / Calm
13-10-21	14-10-21	155	73	19	13	BDL	Clear Sky / Calm
14-10-21	15-10-21	147	86	25	19	BDL	Clear Sky / L.Breeze
22-10-21	23-10-21	136	70	17	13	BDL	Clear Sky / Calm
23-10-21	24-10-21	120	67	20	15	BDL	Clear Sky / L.Breeze
28-10-21	29-10-21	132	78	19	12	BDL	Clear Sky / L.Breeze
29-10-21	30-10-21	141	82	23	20	BDL	Clear Sky / L.Breeze
NAAQS, 2009		-	100	60	80		



Analysed by



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

MINE WATER DISCHARGE: 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
*	*	*	*	*
28-10-21	7.83	34	48	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
*	*	*	*	*
28-10-21	8.05	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**

PIT OFFICE: UGON1			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	12-10-21	54.4	53.6
OCT'21	27-10-21	51.8	50.3
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

CONTRACTOR CAMP: UGON2			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	12-10-21	52.1	51.9
OCT'21	27-10-21	53.6	52.8
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70



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## ENVIRONMENTAL MONITORING REPORT

# MAKARDHOKRA-II OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## CMPDI

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

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/OCT-21/14	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	UMRER	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	MAKARDHOKRA-II		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			


NEAR MANAGER OFFICE UMOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
12-10-21	13-10-21	238	151	41	33	12	Cloudy/Calm
24-10-21	25-10-21	256	172	46	36	14	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>	
12-10-21	13-10-21	228	136	37	32	BDL	Cloudy/Calm
24-10-21	25-10-21	207	120	32	27	BDL	Cloudy/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

KANWA VILLAGE UMOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
10-10-21	11-10-21	129	66	17	15	BDL	Cloudy/Calm
22-10-21	23-10-21	137	74	22	13	BDL	Cloudy/Calm
NAAQS, 2009		-	100	60	80	80	

NEAR PUMP HOUSE COLONY UMOA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
10-10-21	11-10-21	100	55	18	12	BDL	Cloudy/Calm
22-10-21	23-10-21	126	69	20	15	BDL	Cloudy/Calm
NAAQS, 2009		-	100	60	80	80	

  
Analysed by

  
Deepanshu sahu  
Authorised Signatory

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**NOISE LEVEL MONITORING DATA**

<b>NEAR PIT OFFICE: UMON1</b>			
<b>MONTH</b>	<b>DATE OF SAMPLE COLLECTION</b>	<b>NOISE LEVEL IN dB(A) DAY TIME</b>	<b>NOISE LEVEL IN dB(A) DAY TIME</b>
	<b>DETECTION LIMIT</b>	<b>20</b>	<b>20</b>
OCT'21	12-10-21	54.5	53.8
OCT'21	27-10-21	52.7	51.5
<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. 4634420034



OCTOBER 2021

### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## CMPDI

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

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/OCT-21/13	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	UMRER	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	MAKARDHOKRA-I OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD	LSOP 4		

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>	
12-10-21	13-10-21	268	156	44	32	10	Cloudy/Calm
24-10-21	25-10-21	273	172	48	37	13	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 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>	
12-10-21	13-10-21	137	80	37	27	BDL	Cloudy/Calm
24-10-21	25-10-21	156	86	40	32	BDL	Cloudy/Calm
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>	
09-10-21	10-10-21	121	65	20	12	BDL	Cloudy/L.Breeze
24-10-21	25-10-21	137	77	28	19	BDL	Clear/L.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>	
09-10-21	10-10-21	133	76	26	15	BDL	Cloudy/L.Breeze
24-10-21	25-10-21	156	83	26	21	BDL	Clear/L.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>	
09-10-21	10-10-21	146	79	25	17	BDL	Clear/L.Breeze
24-10-21	25-10-21	124	69	21	12	BDL	Clear/L.Breeze
NAAQS, 2009		-	100	60	80	80	



Analysed by



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

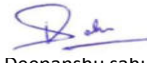
MINE WATER DISCHARGE: UM10W1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
*	*	*	*	*
23-10-21	7.77	30	36	BDL
STANDARDS FOR COAL	5.5 - 9.0	100	250	10

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
*	*	*	*	*
23-10-21	7.88	26	36	BDL
STANDARDS FOR COAL	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

<b>PIT OFFICE: UM1ON1</b>			
<b>MONTH</b>	<b>DATE OF SAMPLE COLLECTION</b>	<b>NOISE LEVEL IN dB(A)</b>	
		<b>DAY TIME</b>	<b>NIGHT TIME</b>
	<b>DETECTION LIMIT</b>	<b>20</b>	<b>20</b>
OCT'21	12-10-21	55.3	54.9
OCT'21	27-10-21	51.8	50.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>SIRPUR VILLAGE: UM1ON2</b>			
<b>MONTH</b>	<b>DATE OF SAMPLE COLLECTION</b>	<b>NOISE LEVEL IN dB(A)</b>	
		<b>DAY TIME</b>	<b>NIGHT TIME</b>
	<b>DETECTION LIMIT</b>	<b>20</b>	<b>20</b>
OCT'21	12-10-21	44.9	44.2
OCT'21	27-10-21	45.8	44.5
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

<b>HEOTI VILLAGE: UM1ON3</b>			
<b>MONTH</b>	<b>DATE OF SAMPLE COLLECTION</b>	<b>NOISE LEVEL IN dB(A)</b>	
		<b>DAY TIME</b>	<b>NIGHT TIME</b>
	<b>DETECTION LIMIT</b>	<b>20</b>	<b>20</b>
OCT'21	12-10-21	47.1	46.5
OCT'21	27-10-21	46.7	45.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

# MORPAR UG

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



OCTOBER 2021

### Environment Laboratory


NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## CMPDI

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

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/OCT-21/15	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	UMRER	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	MORPAR UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

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>	
11-10-21	12-10-21	245	132	32	20	BDL	Cloudy/Calm
23-10-21	24-10-21	261	148	38	26	BDL	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 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>	
11-10-21	12-10-21	208	5	30	26	BDL	Cloudy/Calm
23-10-21	24-10-21	226	136	33	30	BDL	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 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>	
11-10-21	12-10-21	128	66	25	21	BDL	Cloudy/Calm
23-10-21	24-10-21	108	60	22	19	BDL	Cloudy/Calm
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>	
11-10-21	12-10-21	162	83	22	15	BDL	Cloudy/Calm
23-10-21	24-10-21	141	77	24	19	BDL	Cloudy/Calm
NAAQS, 2009		-	100	60	80	80	



Analysed by



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

MINE WATER DISCHARGE: UMUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
*	*	*	*	*
23-10-21	7.63	34	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**

<b>FAN HOUSE: UMUN1</b>			
<b>MONTH</b>	<b>DATE OF SAMPLE COLLECTION</b>	<b>NOISE LEVEL IN dB(A)</b>	
		<b>DAY TIME</b>	<b>Night time</b>
	<b>DETECTION LIMIT</b>	<b>20</b>	<b>20</b>
OCT'21	11-10-21	69.2	68.5
OCT'21	23-10-21	69.4	68.7
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY: UMUN2</b>			
<b>MONTH</b>	<b>DATE OF SAMPLE COLLECTION</b>	<b>NOISE LEVEL IN dB(A)</b>	
		<b>DAY TIME</b>	<b>Night time</b>
	<b>DETECTION LIMIT</b>	<b>20</b>	<b>20</b>
OCT'21	11-10-21	42.4	41.6
OCT'21	23-10-21	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

# UMRER OC

UMRER AREA

**WESTERN COALFIELDS LTD.**

JOB NO. 4634420034



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## 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/OCT-21/16	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	UMRER	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	UMRER OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

UMRER MANAGER OFFICE		UUOA1					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
10-10-21	11-10-21	260	175	44	39	12	Cloudy/Calm
22-10-21	23-10-21	243	163	40	35	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 WORKSHOP		UUOA2					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
10-10-21	11-10-21	193	108	30	22	BDL	Cloudy/Calm
22-10-21	23-10-21	215	127	32	26	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>	

KANWA VILLAGE		UUOA3					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
10-10-21	11-10-21	129	66	17	15	BDL	Cloudy/Calm
22-10-21	23-10-21	137	74	22	13	BDL	Cloudy/Calm
NAAQS, 2009		-	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	

NEAR PUMP HOUSE COLONY		UUOA4					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
10-10-21	11-10-21	100	55	18	12	BDL	Cloudy/Calm
22-10-21	23-10-21	126	69	20	15	BDL	Cloudy/Calm
NAAQS, 2009		-	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	



Analysed by



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

MINE WATER DISCHARGE: 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
*	*	*	*	*
22-10-21	7.92	28	32	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
*	*	*	*	*
22-10-21	7.66	38	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
*	*	*
22-10-21	32	12
GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS GSR 801E EPA 1993	100	30

  
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Deepanshu sahu  
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**NOISE LEVEL MONITORING DATA**

<b>CHP: UUON1</b>			
<b>MONTH</b>	<b>DATE OF SAMPLE COLLECTION</b>	<b>NOISE LEVEL IN dB(A)</b>	<b>NOISE LEVEL IN dB(A)</b>
		<b>DAY TIME</b>	<b>NIGHT TIME</b>
	<b>DETECTION LIMIT</b>	<b>20</b>	<b>20</b>
OCT'21	12-10-21	56.7	55.9
OCT'21	27-10-21	54.6	53.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY: UUON2</b>			
<b>MONTH</b>	<b>DATE OF SAMPLE COLLECTION</b>	<b>NOISE LEVEL IN dB(A)</b>	<b>NOISE LEVEL IN dB(A)</b>
		<b>DAY TIME</b>	<b>NIGHT TIME</b>
	<b>DETECTION LIMIT</b>	<b>20</b>	<b>20</b>
OCT'21	12-10-21	45.4	44.3
OCT'21	27-10-21	45.4	44.1
<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. 4634420034



OCTOBER 2021

### Environment Laboratory


NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## CMPDI

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

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/OCT-21/ 36	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS A64:J685182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	WANI	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	GHUGUS OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

ACC PATCH NEAR ACC COLONY   WGOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
05-10-21	06-10-21	198	146	58	22	16	Clear Sky /Lightbreeze
20-10-21	21-10-21	206	154	62	24	18	Clear Sky /Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

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>	
05-10-21	06-10-21	226	138	60	20	18	Clear Sky /Lightbreeze
20-10-21	21-10-21	232	144	66	22	14	Clear Sky /Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

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	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
05-10-21	06-10-21	128	68	32	14	10	Clear Sky /Lightbreeze
20-10-21	21-10-21	122	64	30	10	BDL	Clear Sky /Lightbreeze
NAAQS, 2009		-	100	60	80	80	

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	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
05-10-21	06-10-21	124	70	36	14	12	Clear Sky /Lightbreeze
20-10-21	21-10-21	136	76	40	12	10	Clear Sky /Lightbreeze
NAAQS, 2009		-	100	60	80	80	



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**NOISE LEVEL MONITORING DATA**

<b>CHP: WGON1</b>			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	13-10-21	64.1	62.8
OCT'21	23-10-21	64.4	62.1
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY(GHUGUS): WGON2</b>			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	13-10-21	44.4	43.2
OCT'21	23-10-21	44.2	43.5
<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. 4634420034



OCTOBER 2021

### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

### CMPDI

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

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/OCT-21/37	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	WANI	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	KOLGAON OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
06-10-21	07-10-21	244	144	60	22	18	Clear Sky/L.Breeze
21-10-21	22-10-21	256	160	66	24	20	Clear Sky/L.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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
07-10-21	08-10-21	254	146	68	22	18	Clear Sky/L. Breeze
22-10-21	23-10-21	262	150	70	18	16	Clear Sky/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>	
06-10-21	07-10-21	128	70	34	16	10	Clear Sky/L.Breeze
21-10-21	22-10-21	132	78	38	10	BDL	Clear Sky/Calm
NAAQS, 2009		-	100	60	80	80	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
07-10-21	08-10-21	128	76	36	14	12	Clear Sky/L. Breeze
22-10-21	23-10-21	116	70	32	12	BDL	Clear Sky/Calm
NAAQS, 2009		-	100	60	80	80	



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

MINE WATER DISCHARGE: 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
*	*	*	*	*
22-10-21	7.8	24	36	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10




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**NOISE LEVEL MONITORING DATA**

<b>MANAGER OFFICE:</b>		<b>WKON1</b>	
<b>MONTH</b>	<b>DATE OF SAMPLE COLLECTION</b>	<b>NOISE LEVEL IN dB(A)</b>	
		<b>DAY TIME</b>	<b>NIGHT TIME</b>
	<b>DETECTION LIMIT</b>	20	20
OCT'21	13-10-21	55.6	53.9
OCT'21	23-10-21	55.3	53.5
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY(MUNGOLI):</b>		<b>WKON2</b>	
<b>MONTH</b>	<b>DATE OF SAMPLE COLLECTION</b>	<b>NOISE LEVEL IN dB(A)</b>	
		<b>DAY TIME</b>	<b>NIGHT TIME</b>
	<b>DETECTION LIMIT</b>	20	20
OCT'21	13-10-21	43.7	42.1
OCT'21	23-10-21	43.4	42.5
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

### MUGOLI OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



OCTOBER 2021

### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

### CMPDI

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

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/OCT-21/38	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	WANI	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	MUGOLI OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

DATE(dd:mm:yy) OF SAMPLING		SUBSTATION W/MOA1 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>	
07-10-21	08-10-21	266	148	70	24	18	Clear Sky/L. Breeze
22-10-21	23-10-21	258	152	66	22	16	Clear Sky/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		SAM OFFICE W/MOA2 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>	
07-10-21	08-10-21	254	146	68	22	18	Clear Sky/L. Breeze
22-10-21	23-10-21	262	150	70	18	16	Clear Sky/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		KAILSHNAGAR TOWNSHIP - FILTER PLANT W/MOA3 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>	
07-10-21	08-10-21	128	76	36	14	12	Clear Sky/L. Breeze
22-10-21	23-10-21	116	70	32	12	BDL	Clear Sky/Calm
NAAQS, 2009		-	100	60	80	80	

DATE(dd:mm:yy) OF SAMPLING		TUBEWELL NEAR SAKHARA VILLAGE W/MOA4 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>	
07-10-21	08-10-21	120	62	38	16	12	Clear Sky/L. Breeze
22-10-21	23-10-21	128	68	40	10	BDL	Clear Sky/Calm
NAAQS, 2009		-	100	60	80	80	



Analysed by



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

MINE WATER DISCHARGE: 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
*	*	*	*	*
23-10-21	7.45	26	40	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
*	*	*	*	*
23-10-21	7.45	30	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**

<b>CHP: W/MON1</b>			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	13-10-21	64.5	63.4
OCT'21	23-10-21	64.7	63.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY(MUNGOLI): W/MON2</b>			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	13-10-21	43.7	42.1
OCT'21	23-10-21	43.4	42.5
<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. 4634420034



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

### 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/OCT-21/39	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	WANI	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	NAIGAON OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SAM OFFICE WNGOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
13-10-21	14-10-21	240	160	70	22	16	Clear Sky/L.Breeze
23-10-21	24-10-21	256	166	74	24	18	Clear Sky/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>	
12-10-21	13-10-21	240	160	70	22	16	Clear Sky/L.Breeze
24-10-21	25-10-21	254	172	72	24	18	Clear Sky/Calm
STANDARDS FOR COAL MINE, GSR 742(E),		<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	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
13-10-21	14-10-21	118	76	40	18	14	Clear Sky/L.Breeze
23-10-21	24-10-21	122	80	44	16	12	Clear Sky/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	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
13-10-21	14-10-21	124	82	42	12	BDL	Clear Sky/L.Breeze
23-10-21	24-10-21	132	86	46	14	12	Clear Sky/Calm
NAAQS, 2009		-	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</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

MINE WATER DISCHARGE: WNGOW1				
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>
*	*	*	*	*
24-10-21	4.25	28	12	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**

CHP: WNGON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	13-10-21	63.8	62.3
OCT'21	23-10-21	63.3	62.6
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY(GHUGUS): WNGON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	13-10-21	44.4	43.2
OCT'21	23-10-21	44.2	43.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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## ENVIRONMENTAL MONITORING REPORT

# NILJAI DEEP OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



OCTOBER 2021

### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## 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/OCT-21/40	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	WANI	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	NILJAI DEEP OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

CIVIL OFFICE- NILJAI WNOA1							
DATE(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>	
12-10-21	13-10-21	238	140	62	24	18	Clear Sky/L.Breeze
24-10-21	25-10-21	242	146	66	26	20	Clear Sky/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

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>	
12-10-21	13-10-21	240	160	70	22	16	Clear Sky/L.Breeze
24-10-21	25-10-21	254	172	72	24	18	Clear Sky/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

NILJAI COLONY WNOA3							
DATE(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>	
12-10-21	13-10-21	126	74	36	12	10	Clear Sky/L.Breeze
24-10-21	25-10-21	130	68	38	10	BDL	Clear Sky/Calm
NAAQS, 2009		-	100	60	80	80	

TARODA VILLAGE WNOA4							
DATE(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>	
12-10-21	13-10-21	110	64	28	12	10	Clear Sky/L.Breeze
24-10-21	25-10-21	116	68	30	10	BDL	Clear Sky/Calm
NAAQS, 2009		-	100	60	80	80	



Analysed by


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

MINE WATER DISCHARGE: 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
*	*		*	*
24-10-21	7.17	24	36	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
*	*	*	*	*
24-10-21	7.23	28	44	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
*	*	*
24-10-21	34	10
GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS	100	30



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**NOISE LEVEL MONITORING DATA**

<b>CHP-NILJAI: WNON1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	13-10-21	64.7	63.2
OCT'21	23-10-21	64.5	63.6
<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	20
OCT'21	13-10-21	63.4	62.8
OCT'21	23-10-21	63.1	62.4
<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	20
OCT'21	13-10-21	44.1	42.9
OCT'21	23-10-21	44.5	42.6
<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. 4634420034



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## CMPDI

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

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/OCT-21/41	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	WANI	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	PENGANGA OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE WPOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
06-10-21	07-10-21	248	166	64	24	18	Clear Sky/ L.Breeze
21-10-21	22-10-21	256	174	68	26	20	Clear Sky/ L.Breeze
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>	
06-10-21	07-10-21	280	182	74	26	18	Clear Sky/ L.Breeze
21-10-21	22-10-21	288	186	78	24	20	Clear Sky/ L.Breeze
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	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
06-10-21	07-10-21	126	76	34	16	12	Clear Sky/ L.Breeze
21-10-21	22-10-21	132	82	36	18	14	Clear Sky/ L.Breeze
NAAQS, 2009		-	100	60	80	80	

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	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
06-10-21	07-10-21	120	70	32	14	12	Clear Sky/ L.Breeze
21-10-21	22-10-21	124	72	34	10	BDL	Clear Sky/ L.Breeze
NAAQS, 2009		-	100	60	80	80	



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

MINE WATER DISCHARGE: 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
*	*	*	*	*
22-10-21	7.4	20	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**

<b>NEAR WORKSHOP: WPON1</b>			
<b>MONTH</b>	<b>DATE OF SAMPLE COLLECTION</b>	<b>NOISE LEVEL IN dB(A)</b>	
		<b>DAY TIME</b>	<b>NIGHT TIME</b>
	<b>DETECTION LIMIT</b>	20	20
OCT'21	13-10-21	55.8	54.4
OCT'21	23-10-21	55.7	54.1
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		75	70

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## ENVIRONMENTAL MONITORING REPORT

# GHONSA OC

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## 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/OCT-21/43	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	WANI NORTH	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	GHONSA OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

PROJECT MANAGER OFFICE   WNGOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <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>	
06-10-21	07-10-21	196	110	62	20	18	Cloudy Sky / Calm
21-10-21	22-10-21	188	98	58	18	16	Clear Sky / 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 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>	
06-10-21	07-10-21	236	146	68	20	18	Cloudy Sky / Calm
21-10-21	22-10-21	224	140	62	16	12	Clear Sky / 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 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>	
06-10-21	07-10-21	116	70	34	14	10	Cloudy Sky / Calm
21-10-21	22-10-21	106	64	30	12	BDL	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	

GUEST HOUSE/ COLONY   WNKUA3							
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>	
06-10-21	07-10-21	116	68	36	16	14	Cloudy Sky / Calm
21-10-21	22-10-21	132	74	38	18	16	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	



Analysed by



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

MINE WATER DISCHARGE: 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
*	*	*	*	*
21-10-21	7.54	30	56	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**

<b>MANAGER OFFICE:</b>		<b>WNGON1</b>	
<b>MONTH</b>	<b>DATE OF SAMPLE COLLECTION</b>	<b>NOISE LEVEL IN dB(A)</b>	
	<b>DETECTION LIMIT</b>	<b>DAY TIME</b>	<b>NIGHT TIME</b>
OCT'21	09-10-21	50.7	47.6
OCT'21	22-10-21	48.7	46.4
<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. 4634420034



OCTOBER 2021


**Environment Laboratory**

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

**CMPDI**

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

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/OCT-21/42	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	WANI NORTH	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	JUNAD OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SAM OFFICE   WNJOA1							
DATE(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>	
07-10-21	08-10-21	210	118	62	20	16	Cloudy Sky / Calm
22-10-21	23-10-21	228	126	66	22	20	Clear Sky / 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)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
07-10-21	08-10-21	126	74	36	14	BDL	Cloudy Sky / Calm
22-10-21	23-10-21	120	70	32	12	10	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	

BHALAR TOWNSHIP   WNJOA3							
DATE(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>	
08-10-21	09-10-21	120	70	36	16	14	Cloudy Sky / Calm
23-10-21	24-10-21	128	76	40	20	16	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	

UKNI VILLAGE   WNJOA4							
DATE(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>	
08-10-21	09-10-21	110	68	28	14	12	Cloudy Sky / Calm
23-10-21	24-10-21	116	74	30	16	10	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	



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

MINE WATER DISCHARGE: 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
*	*	*	*	*
22-10-21	7.17	26	48	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
*	*	*	*	*
22-10-21	7.44	34	68	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

MANAGER OFFICE: WNJON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	09-10-21	49.7	46.4
OCT'21	22-10-21	49.2	46.6
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	20
OCT'21	09-10-21	45.2	43.8
OCT'21	22-10-21	45.9	43.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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## ENVIRONMENTAL MONITORING REPORT

# KOLARPIMPRI OC

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



OCTOBER 2021

### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/OCT-21/44	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	WANI NORTH	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	KOLARPIMPRI OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SUBSTATION KOLARPIMPRI WNKOA1							
DATE(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>	
04-10-21	05-10-21	214	110	64	20	16	Cloudy Sky /Calm
19-10-21	20-10-21	236	126	70	24	20	Clear Sky /Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

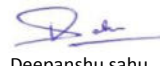
REST SHELTER WNKOA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08-10-21	09-10-21	190	100	54	20	16	Cloudy Sky /Calm
24-10-21	25-10-21	182	94	50	18	14	Clear Sky /Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

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	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
03-04-21	04-04-21	110	68	32	10	BDL	Cloudy Sky /Calm
18-10-21	19-10-21	114	72	36	12	10	Clear Sky /Calm
NAAQS, 2009		-	100	60	80	80	

WATER FILTER FLANT WNPOA3							
DATE(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>	
07-10-21	08-10-21	120	72	30	12	10	Cloudy Sky/ Calm
22-10-21	23-10-21	128	78	34	10	BDL	Clear Sky/ Calm
NAAQS, 2009		-	100	60	80	80	



Analysed by



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

MINE WATER DISCHARGE: 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
*	*	*	*	*
24-10-21	7.35	28	40	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



Analysed by



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**NOISE LEVEL MONITORING DATA**

CHP: WNKON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
OCT'21	09-10-21	62.4	59.2
OCT'21	22-10-21	63.7	61.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY PRAGATI NAGAR: WNPON2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
OCT'21	09-10-21	45.2	42.9
OCT'21	22-10-21	45.2	43.8
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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## ENVIRONMENTAL MONITORING REPORT

# KUMBARKHANI UG

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## CMPDI

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

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/OCT-21/45	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	WANI NORTH	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	KUMBARKHANI UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD	LSOP 4		

PROJECT MANAGER OFFICE   WNKUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <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	
06-10-21	07-10-21	228	124	66	20	16	Cloudy Sky / Calm
21-10-21	22-10-21	246	132	70	22	20	Clear Sky / 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 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	
06-10-21	07-10-21	236	146	68	20	18	Cloudy Sky / Calm
21-10-21	22-10-21	224	140	62	16	12	Clear Sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

GUEST HOUSE/ COLONY   WNKUA3							
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	
06-10-21	07-10-21	116	68	36	16	14	Cloudy Sky / Calm
21-10-21	22-10-21	132	74	38	18	16	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	

GHONSA VILLAGE   WNGOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <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	
06-10-21	07-10-21	116	70	34	14	10	Cloudy Sky / Calm
21-10-21	22-10-21	106	64	30	12	BDL	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	



Analysed by



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**NOISE LEVEL MONITORING DATA**

FAN HOUSE: WNKUN1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	09-10-21	45.2	43.8
OCT'21	22-10-21	44.2	43.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY: WNKUN2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	09-10-21	45.4	42.9
OCT'21	22-10-21	43.5	42.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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## ENVIRONMENTAL MONITORING REPORT

### PIMPALGAON OC

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



OCTOBER 2021

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>	 TC-7102
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TEST REPORT NO.	RIN/TR/OCT-21/46	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	WANI NORTH	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	PIMPALGAON OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SAM OFFICE   WNPOA1							
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>	
07-10-21	08-10-21	246	128	66	22	18	Cloudy Sky/ Calm
22-10-21	23-10-21	266	146	72	24	16	Clear Sky/ Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

WORKSHOP   WNPOA2							
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>	
07-10-21	08-10-21	224	130	60	20	18	Cloudy Sky/ Calm
22-10-21	23-10-21	252	150	66	24	16	Clear Sky/ Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

WATER FILTER PLANT PRAGATI NAGAR   WNPOA3							
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>	
07-10-21	08-10-21	120	72	30	12	10	Cloudy Sky/ Calm
22-10-21	23-10-21	128	78	34	10	BDL	Clear Sky/ Calm
NAAQS, 2009		-	100	60	80	80	

BORGAON VILLAGE   WNJOA2							
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>	
07-10-21	08-10-21	126	74	36	14	BDL	Cloudy Sky / Calm
22-10-21	23-10-21	120	70	32	12	10	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	



Analysed by



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**NOISE LEVEL MONITORING DATA**

CHP: WNPON1			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	09-10-21	58.7	55.4
OCT'21	22-10-21	52.7	47.6
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY PRAGATI NAGAR: WNPON2			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	09-10-21	45.2	42.9
OCT'21	22-10-21	45.2	43.8
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45



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## ENVIRONMENTAL MONITORING REPORT

### RAJUR UG

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



OCTOBER 2021

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/OCT-21/47	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	WANI NORTH	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	RAJUR UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

NEAR BANDEWADA INCLINE		WNRUA1					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
05-10-21	06-10-21	274	158	70	24	18	Cloudy Sky / Calm
20-10-21	21-10-21	286	162	76	26	20	Clear Sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SAM OFFICE		WNRUA2					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
05-10-21	06-10-21	236	130	64	20	16	Cloudy Sky / Calm
20-10-21	21-10-21	244	146	68	22	18	Clear Sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

PIT OFFICE		WNRUA3					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
05-10-21	06-10-21	226	118	60	16	12	Cloudy Sky / Calm
20-10-21	21-10-21	232	126	64	18	14	Clear Sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

HUTMENT		WNRUA4					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
05-10-21	06-10-21	114	70	34	12	10	Cloudy Sky / Calm
20-10-21	21-10-21	126	76	38	14	10	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	



Analysed by



Deepanshu sahu

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

MINE WATER DISCHARGE: 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
*	*	*	*	*
20-10-21	7.74	24	40	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



Analysed by


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**NOISE LEVEL MONITORING DATA**

FAN HOUSE:		WNRUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
			20
OCT'21	09-10-21	66.7	65.6
OCT'21	22-10-21	68.7	66.2
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
			20
OCT'21	09-10-21	46.2	44.9
OCT'21	22-10-21	46.2	44.7
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. 4634420034




OCTOBER 2021

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/OCT-21/48	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	WANI NORTH	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	UKNI DEEP		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

WORKSHOP PREMISES W/NUOA1							
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>	
08-10-21	09-10-21	236	144	64	22	18	Cloudy Sky / Calm
23-10-21	24-10-21	240	156	72	24	20	Clear Sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

BHALAR TOWNSHIP W/NUOA2							
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>	
08-10-21	09-10-21	120	70	36	16	14	Cloudy Sky / Calm
23-10-21	24-10-21	128	76	40	20	16	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	

UKNI VILLAGE W/NUOA3							
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>	
08-10-21	09-10-21	110	68	28	14	12	Cloudy Sky / Calm
23-10-21	24-10-21	116	74	30	16	10	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	

PIMPRI VILLAGE W/NKOA3							
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>	
03-04-21	04-04-21	110	68	32	10	BDL	Cloudy Sky /Calm
18-10-21	19-10-21	114	72	36	12	10	Clear Sky /Calm
NAAQS, 2009		-	100	60	80	80	



Analysed by



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

MINE WATER DISCHARGE: 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
*	*	*	*	*
23-10-21	7.17	32	60	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
*	*	*	*	*
23-10-21	7.48	20	28	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
*	*	*
23-10-21	28	8
GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS GSR 801E EPA 1993	100	30



Analysed by



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**NOISE LEVEL MONITORING DATA**

CHP: WNUON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	09-10-21	60.7	59.4
OCT'21	22-10-21	62.7	60.6
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
OCT'21	09-10-21	45.2	43.8
OCT'21	22-10-21	45.9	43.7
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. 4634420034



OCTOBER 2021

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/OCT-21/49	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	WANI NORTH	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	WANI RAILWAY SIDING		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

NEAR RAILWAY SIDING   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	
03-10-21	04-10-21	168	110	56	18	16	Cloudy Sky / Calm
04-10-21	05-10-21	172	116	60	20	14	Cloudy Sky / Calm
09-10-21	10-10-21	158	98	54	16	12	Cloudy Sky / Calm
10-10-21	11-10-21	178	114	60	18	14	Cloudy Sky / Calm
18-10-21	19-10-21	182	120	62	20	16	Clear Sky / Calm
19-10-21	20-10-21	190	126	64	22	18	Clear Sky / Calm
24-10-21	25-10-21	196	130	66	20	16	Clear Sky / Calm
25-10-21	26-10-21	188	136	58	18	14	Clear Sky / 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	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
		5	5	2	6	10	
03-10-21	04-10-21	108	58	28	12	10	Cloudy Sky / Calm
04-10-21	05-10-21	112	64	32	14	12	Cloudy Sky / Calm
09-10-21	10-10-21	120	70	38	16	10	Cloudy Sky / Calm
10-10-21	11-10-21	128	76	40	14	12	Cloudy Sky / Calm
18-10-21	19-10-21	136	80	44	16	12	Clear Sky / Calm
19-10-21	20-10-21	140	88	42	14	10	Clear Sky / Calm
24-10-21	25-10-21	132	78	36	10	BDL	Clear Sky / Calm
25-10-21	26-10-21	138	82	40	14	12	Clear Sky / 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	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
		5	5	2	6	10	
03-10-21	04-10-21	110	60	36	12	10	Cloudy Sky / Calm
04-10-21	05-10-21	108	58	30	10	BDL	Cloudy Sky / Calm
09-10-21	10-10-21	114	64	32	12	BDL	Cloudy Sky / Calm
10-10-21	11-10-21	120	66	36	14	12	Cloudy Sky / Calm
18-10-21	19-10-21	128	70	40	16	14	Clear Sky / Calm
19-10-21	20-10-21	136	77	44	18	16	Clear Sky / Calm
24-10-21	25-10-21	130	74	42	10	BDL	Clear Sky / Calm
25-10-21	26-10-21	140	76	40	16	12	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	



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DEEPANSHU SAHU  
AUTHORIZED SIGNATORY

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**NOISE LEVEL MONITORING DATA**

<b>MASJID NEAR FARM HOUSE</b>		<b>WNRSN1</b>	
<b>MONTH</b>	<b>DATE OF SAMPLE COLLECTION</b>	<b>NOISE LEVEL IN dB(A)</b>	
		<b>DAY TIME</b>	<b>NIGHT TIME</b>
	<b>DETECTION LIMIT</b>	<b>20</b>	<b>20</b>
OCT'21	09-10-21	46.2	44.4
OCT'21	22-10-21	49.6	45.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>NEAR INCHARGE OFFICE:</b>		<b>WNRSN2</b>	
<b>MONTH</b>	<b>DATE OF SAMPLE COLLECTION</b>	<b>NOISE LEVEL IN dB(A)</b>	
		<b>DAY TIME</b>	<b>NIGHT TIME</b>
	<b>DETECTION LIMIT</b>	<b>20</b>	<b>20</b>
OCT'21	09-10-21	47.2	45.4
OCT'21	22-10-21	48.7	44.6
<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. 4634420035



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## CMPDI

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

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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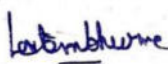
TEST REPORT NO.	RIN/TR/OCT-21/68	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	AMBARA OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE KAOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
13-10-21	14-10-21	247	155	39	14	12	Clear Sky / Lightbreeze
25-10-21	26-10-21	261	169	34	12	BDL	Clear Sky / Lightbreeze
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>	
13-10-21	14-10-21	301	199	38	15	12	Clear/Lightbreeze
25-10-21	26-10-21	270	176	33	13	BDL	Clear/Lightbreeze
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	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
13-10-21	14-10-21	122	82	27	9	BDL	Clear/Lightbreeze
25-10-21	26-10-21	130	91	36	10	BDL	Clear/Lightbreeze
NAAQS, 2009		-	100	60	80	80	

AMBARA VILLAGE KMUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
13-10-21	14-10-21	131	75	23	10	BDL	Clear/Lightbreeze
25-10-21	26-10-21	119	88	30	9	BDL	Clear/Lightbreeze
NAAQS, 2009		-	100	60	80	80	



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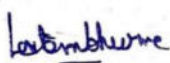


Deepanshu sahu  
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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)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

MINE WATER DISCHARGE: KAOW				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
*	*	*	*	*
25-10-21	8.01	34	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**

<b>MANAGER OFFICE: KAON1</b>			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	11-10-21	52.7	52.6
OCT'21	23-10-21	50.1	45.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY(MOHAN/MAORI): KMUN2</b>			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	11-10-21	43.4	43.2
OCT'21	23-10-21	40.2	34.5
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

# AMBARA UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



OCTOBER 2021

### Environment Laboratory


NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## CMPDI

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

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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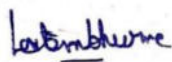
TEST REPORT NO.	RIN/TR/OCT-21/69	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	AMBARA UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SAM OFFICE- AMBARA   KAU1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
13-10-21	14-10-21	254	166	40	13	BDL	Clear/Lightbreeze
25-10-21	26-10-21	280	187	46	14	BDL	Clear/Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

PIT OFFICE- MOHAN   KAU2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
13-10-21	14-10-21	301	199	38	15	12	Clear/Lightbreeze
25-10-21	26-10-21	270	176	33	13	BDL	Clear/Lightbreeze
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	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
13-10-21	14-10-21	122	82	27	9	BDL	Clear/Lightbreeze
25-10-21	26-10-21	130	91	36	10	BDL	Clear/Lightbreeze
NAAQS, 2009		-	100	60	80	80	

AMBARA VILLAGE   KMUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
13-10-21	14-10-21	131	75	23	10	BDL	Clear/Lightbreeze
25-10-21	26-10-21	119	88	30	9	BDL	Clear/Lightbreeze
NAAQS, 2009		-	100	60	80	80	



Analysed by


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## ENVIRONMENTAL MONITORING REPORT

### AREA WORKSHOP

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



OCTOBER 2021

### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/OCT-21/70	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN :	LQR 47
NAME OF PROJECT	AREA WORKSHOP		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD :	LSOP 4		

AREA WORKSHOP   KAWA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in 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>	
12-10-21	13-10-21	289	188	36	13	BDL	Clear / Lightbreeze
24-10-21	25-10-21	250	157	40	14	10	Clear / Lightbreeze
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>	

*lastimburne*  
Analysed by

*Deepanshu*  
Deepanshu sahu  
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**NOISE LEVEL MONITORING DATA**

<b>W/S PRIMISES:</b>		<b>KAWN1</b>	
<b>MONTH</b>	<b>DATE OF SAMPLE COLLECTION</b>	<b>NOISE LEVEL IN dB(A)</b>	
	<b>DETECTION LIMIT</b>	<b>DAY TIME</b>	<b>NIGHT TIME</b>
OCT'21	11-10-21	49.5	48.7
OCT'21	23-10-21	52.2	44.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

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## ENVIRONMENTAL MONITORING REPORT

### DAMUA OC

KANHAN AREA 

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

### CMPDI

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

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/OCT-21/71	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN :	LQR 47
NAME OF PROJECT	DAMUA OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD :	LSOP 4		

OC OFFICE   KDOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
10-10-21	11-10-21	5	5	2	6	10	Clear / Lightbreeze
22-10-21	23-10-21	268	171	39	15	10	Clear / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SAM OFFICE- DAMUA   KDUA1							
DATE(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>	
11-10-21	12-10-21	5	5	2	6	10	Clear / Lightbreeze
23-10-21	24-10-21	269	174	37	14	BDL	Clear / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

RESCUE STATION (NEAR INCLINE 24&25)   KDUA3							
DATE(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>	
11-10-21	12-10-21	5	5	2	6	10	Clear / Lightbreeze
23-10-21	24-10-21	250	146	30	13	BDL	Clear / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

NANDORA VILLAGE   KDUA4							
DATE(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>	
10-10-21	11-10-21	5	5	2	6	10	Clear / Lightbreeze
22-10-21	23-10-21	110	77	22	9	BDL	Clear / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

*Labimkhume*

Analysed by

*Deepanshu sahu*

Deepanshu sahu  
Authorised Signatory

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**NOISE LEVEL MONITORING DATA**

NEAR MANAGER OFFICE:		KDON1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
OCT'21	11-10-21	39.7	37.3
OCT'21	23-10-21	35.9	30.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

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## ENVIRONMENTAL MONITORING REPORT

### DAMUA UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



OCTOBER 2021

### Environment Laboratory


NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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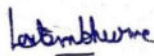
<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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TEST REPORT NO.	RIN/TR/OCT-21/72	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN :	LQR 47
NAME OF PROJECT	DAMUA UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD :	LSOP 4		

DATE(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>	
11-10-21	12-10-21	269	174	37	14	BDL	Clear / Lightbreeze
23-10-21	24-10-21	254	164	33	12	BDL	Clear / Lightbreeze
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>	
11-10-21	12-10-21	250	146	30	13	BDL	Clear / Lightbreeze
23-10-21	24-10-21	268	168	39	14	BDL	Clear / Lightbreeze
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>	
10-10-21	11-10-21	110	77	22	9	BDL	Clear / Lightbreeze
22-10-21	23-10-21	120	82	26	11	BDL	Clear / Lightbreeze
NAAQS, 2009		-	100	60	80	80	



Analysed by



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**NOISE LEVEL MONITORING DATA**

COLONY(DAMUA):		KDUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	11-10-21	42.6	42.4
OCT'21	23-10-21	39.9	35.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

# GHORAWARI OC

KANHAN AREA 

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



OCTOBER 2021

### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## CMPDI

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

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/OCT-21/73	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	GHORAWARI OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE-OC   KGOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <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	
12-10-21	13-10-21	256	144	38	13	11	Clear / Lightbreeze
23-10-21	24-10-21	270	162	31	15	11	Clear / Lightbreeze
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 GHORAWARI   KJUA2							
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	
12-10-21	13-10-21	264	183	29	14	BDL	Clear / Lightbreeze
24-10-21	25-10-21	270	163	35	13	BDL	Clear / Lightbreeze
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>	

COLONY HEALTH CENTER JHARNA   KJUA3							
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	
11-10-21	12-10-21	131	82	24	9	BDL	Clear / Lightbreeze
24-10-21	25-10-21	120	91	30	10	BDL	Clear / Lightbreeze
NAAQS, 2009		-	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	

PANARA VILLAGE   KJUA4							
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	
11-10-21	12-10-21	111	74	23	10	BDL	Clear / Lightbreeze
24-10-21	25-10-21	109	88	29	9	BDL	Clear / Lightbreeze
NAAQS, 2009		-	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	

*labimbhurne*

Analysed by

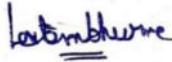
*Deepanshu sahu*

Deepanshu sahu  
Authorised Signatory

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

MINE WATER DISCHARGE: 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
*	*	*	*	*
23-10-21	8.43	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**

MANAGER OFFICE:		KGON1	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	11-10-21	44.5	43.6
OCT'21	23-10-21	50.2	42.8
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY(JHARNA):		KGON2	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	11-10-21	42.7	42.6
OCT'21	23-10-21	38.7	34.9
<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. 4634420035



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## CMPDI

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

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/OCT-21/74	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	JHARNA/GHORAWARI UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE- JHARNA UG  KJUA1							
DATE(dd:mm:yy) ) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <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	
11-10-21	12-10-21	247	156	34	12	BDL	Clear / Lightbreeze
23-10-21	24-10-21	272	171	30	10	BDL	Clear / Lightbreeze
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 GHORAWARI  KJUA2							
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	
12-10-21	13-10-21	264	183	29	14	BDL	Clear / Lightbreeze
24-10-21	25-10-21	270	163	35	13	BDL	Clear / Lightbreeze
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>	

COLONY HEALTH CENTER JHARNA  KJUA3							
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	
11-10-21	12-10-21	131	82	24	9	BDL	Clear / Lightbreeze
24-10-21	25-10-21	120	91	30	10	BDL	Clear / Lightbreeze
NAAQS, 2009		-	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	

PANARA VILLAGE  KJUA4							
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	
11-10-21	12-10-21	111	74	23	10	BDL	Clear / Lightbreeze
24-10-21	25-10-21	109	88	29	9	BDL	Clear / Lightbreeze
NAAQS, 2009		-	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	

*Latimburme*

Analysed by

*Deepanshu sahu*

Deepanshu sahu  
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**NOISE LEVEL MONITORING DATA**

<b>FAN HOUSE: KJUN1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	11-10-21	53.6	51.2
OCT'21	23-10-21	68.2	60.1
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY: KJUN1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	11-10-21	42.7	42.6
OCT'21	23-10-21	38.7	34.9
<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. 4634420035



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## CMPDI

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

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.		RIN/TR/OCT-21/75	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER		GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.		WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)			
NAME OF AREA		KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT		MOHAN/MAORI UG		
SAMPLE DESCRIPTION	Air sample			
SAMPLING METHOD : LSOP 4				

SAM OFFICE KAUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <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	
13-10-21	14-10-21	254	166	40	13	BDL	Clear/Lightbreeze
25-10-21	26-10-21	280	187	46	14	BDL	Clear/Lightbreeze
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-MOHAN KAUA2							
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	
13-10-21	14-10-21	301	199	38	15	12	Clear/Lightbreeze
25-10-21	26-10-21	270	176	33	13	BDL	Clear/Lightbreeze
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>	

COLONY HEALTH CENTER KMUA3							
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	
13-10-21	14-10-21	122	82	27	9	BDL	Clear/Lightbreeze
25-10-21	26-10-21	130	91	36	10	BDL	Clear/Lightbreeze
NAAQS, 2009		-	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	

AMBARA VILLAGE KMUA4							
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	
13-10-21	14-10-21	131	75	23	10	BDL	Clear/Lightbreeze
25-10-21	26-10-21	119	88	30	9	BDL	Clear/Lightbreeze
NAAQS, 2009		-	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	

*Labimkhurme*

Analysed by

*Deepanshu sahu*

Deepanshu sahu  
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**NOISE LEVEL MONITORING DATA**

FAN HOUSE:		KMUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	11-10-21	56.6	56.4
OCT'21	23-10-21	66.2	61.8
<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
OCT'21	11-10-21	43.4	43.2
OCT'21	23-10-21	40.2	34.5
<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. 4634420035



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## CMPDI

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

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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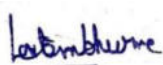
TEST REPORT NO.	RIN/TR/OCT-21/76	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	NANDAN UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SAM OFFICE- NANDAN I UG   KNUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <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>	
10-10-21	11-10-21	248	165	35	15	11	Clear / Lightbreeze
22-10-21	23-10-21	271	182	41	13	BDL	Clear / Lightbreeze
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 NANADAN II UG   KNUA2							
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>	
10-10-21	11-10-21	302	190	37	13	BDL	Clear / Lightbreeze
22-10-21	23-10-21	275	174	42	11	BDL	Clear / Lightbreeze
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>	

HEALTH CENTER-NANADAN UG   KNUA3							
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>	
09-10-21	10-10-21	124	78	24	10	BDL	Clear / Lightbreeze
21-10-21	22-10-21	130	88	29	9	BDL	Clear / Lightbreeze
NAAQS, 2009		-	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	

NANDAN WATER FILTER PLANT   KNWA4							
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>	
09-10-21	10-10-21	109	70	23	10	BDL	Clear / Lightbreeze
21-10-21	22-10-21	123	82	28	9	BDL	Clear / Lightbreeze
NAAQS, 2009		-	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	



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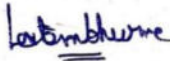
Deepanshu sahu

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

MINE WATER DISCHARGE: 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
*	*	*	*	*
22-10-21	8.31	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**

<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
OCT'21	11-10-21	71.7	71.5
OCT'21	23-10-21	65.1	60.2
<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
OCT'21	11-10-21	43.6	43.4
OCT'21	23-10-21	37.6	32.5
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>



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## ENVIRONMENTAL MONITORING REPORT

# NANDAN WASHERY

KANHAN AREA 

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



OCTOBER 2021

### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## CMPDI

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

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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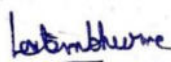
TEST REPORT NO.	RIN/TR/OCT-21/77	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	NANDAN WASHERY		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			


SUBSTATION KNWA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09-10-21	10-10-21	267	187	47	14	11	Clear / Lightbreeze
21-10-21	22-10-21	270	174	41	12	BDL	Clear / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SAM OFFICE NANDAN I UG KNUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
10-10-21	11-10-21	248	165	35	15	11	Clear / Lightbreeze
22-10-21	23-10-21	271	182	41	13	BDL	Clear / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY GUEST HOUSE KNWA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09-10-21	10-10-21	128	81	25	9	BDL	Clear / Lightbreeze
21-10-21	22-10-21	118	75	30	10	BDL	Clear / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

NANDAN WATER FILTER PLANT KNWA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09-10-21	10-10-21	109	70	23	10	BDL	Clear / Lightbreeze
21-10-21	22-10-21	123	82	28	9	BDL	Clear / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

  
Analysed by

  
Deepanshu sahu  
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**NOISE LEVEL MONITORING DATA**

<b>WASHERY: KNWN1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	11-10-21	43.7	43.6
OCT'21	23-10-21	52.7	50.1
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY(NANDAN WASHERY): KNWN2</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	11-10-21	43.5	43.4
OCT'21	23-10-21	42.6	38.6
<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. 4634420035



OCTOBER 2021

### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

### CMPDI

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

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/OCT-21/78	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	KANHAN	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	TANDSI UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

WORKSHOP KTUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <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>	
08-10-21	09-10-21	276	184	45	14	11	Clear / Lightbreeze
20-10-21	21-10-21	267	165	40	13	11	Clear / Lightbreeze
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 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>	
08-10-21	09-10-21	288	178	42	15	11	Clear / Lightbreeze
20-10-21	21-10-21	274	155	39	13	BDL	Clear / Lightbreeze
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 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>	
08-10-21	09-10-21	130	88	27	10	BDL	Clear / Lightbreeze
20-10-21	21-10-21	125	72	25	9	BDL	Clear / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

JET HOSTEL KTUA4							
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>	
08-10-21	09-10-21	121	80	30	9	BDL	Clear / Lightbreeze
20-10-21	21-10-21	130	91	33	10	BDL	Clear / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

*Lab*

Analysed by

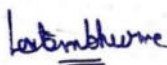
*Deepanshu*

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

MINE WATER DISCHARGE: KTUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
*	*	*	*	*
20-10-21	8.3	26	36	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

FAN HOUSE:		KTUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
OCT'21	08-10-21	72.7	72.5
OCT'21	23-10-21	70.5	65.8
<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
		20	20
OCT'21	08-10-21	43.6	43.4
OCT'21	23-10-21	45.8	40.1
<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. 4634420035



OCTOBER 2021

### Environment Laboratory


NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>		<b>Test Report</b>		 TC-7102
TEST REPORT NO.	RIN/TR/OCT-21/55	DATE OF ISSUE	25.11.2021	
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR			
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021			
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)			
NAME OF AREA	PENCH	SAMPLING PLAN : LQR 47		
NAME OF PROJECT	BARKUHI OC			
SAMPLE DESCRIPTION	Air sample			
SAMPLING METHOD : LSOP 4				

MANAGER OFFICE PBOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in 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	
12-10-21	13-10-21	264	177	56	20	BDL	Cloudy / Calm
25-10-21	26-10-21	272	168	52	19	BDL	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 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	
12-10-21	13-10-21	272	178	56	21	BDL	Cloudy / Calm
25-10-21	26-10-21	298	192	60	22	BDL	Clear / 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 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	
13-10-21	14-10-21	252	178	54	21	BDL	Cloudy / Calm
26-10-21	27-10-21	288	194	58	22	BDL	Clear / 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 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	
13-10-21	14-10-21	132	78	38	14	BDL	Cloudy / Calm
26-10-21	27-10-21	144	89	42	15	BDL	Clear / Calm
NAAQS, 2009		-	100	60	80	80	



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**NOISE LEVEL MONITORING DATA**

NEAR BARKUI HOSPITAL:		PBON1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	<b>DETECTION LIMIT</b>	<b>20</b>	<b>20</b>
OCT'21	13.10.2021	44.9	43.8
OCT'21	26.10.2021	43.9	42.8
<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. 4634420035



OCTOBER 2021

**Environment Laboratory**

NABL ACCREDITED VIDE NO TC-7102 UP TO

**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/OCT-21/56	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	PENCH	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	CHANDAMETA WORKSHOP		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <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>	
13-10-21	14-10-21	5	5	2	6	10	CLOUDY/ CALM
26-10-21	27-10-21	252	178	54	21	BDL	CLEAR/ CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	



Analysed by



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**NOISE LEVEL MONITORING DATA**

NEAR CHANDAMETA WORKSHOP: PCWN1		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	13.10.2021	48.9	47.7
OCT'21	26.10.2021	48.5	47.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

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## ENVIRONMENTAL MONITORING REPORT

# CHINDA OC

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/OCT-21/57	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	PENCH	SAMPLING PLAN :	LQR 47
NAME OF PROJECT	CHINDA OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD :	LSOP 4		

SAM OFFICE   PCOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <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	
11-10-21	12-10-21	264	176	54	20	BDL	CLOUDY/ CALM
24-10-21	25-10-21	288	192	58	22	BDL	CLEAR/ 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 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	
12-10-21	13-10-21	272	160	52	21	BDL	CLOUDY/ CALM
25-10-21	26-10-21	296	194	58	23	BDL	CLEAR/ 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 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	
11-10-21	12-10-21	134	78	38	14	BDL	CLOUDY/ CALM
24-10-21	25-10-21	146	96	44	15	BDL	CLEAR/ CALM
NAAQS, 2009		-	100	60	80	80	

CHINDA COLONY   PS0A2							
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	
12-10-21	13-10-21	138	82	42	15	BDL	CLOUDY/ CALM
25-10-21	26-10-21	148	96	46	16	BDL	CLEAR/ CALM
NAAQS, 2009		-	100	60	80	80	



Analysed by



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

MINE WATER DISCHARGE: PCOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
*	*	*	*	*
25-10-21	7.74	48	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**

NEAR MANAGER OFFICE:		PCON1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	13.10.2021	52.8	51.5
OCT'21	26.10.2021	52.6	51.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY CHINDA:		PCON2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	13.10.2021	43.7	42.8
OCT'21	26.10.2021	42.9	42.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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## ENVIRONMENTAL MONITORING REPORT

# GANPATI UG

PENCH AREA

**WESTERN COALFIELDS LTD.**

JOB NO. 4634420035



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## CMPDI

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

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/OCT-21/58	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	PENCH	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	GANPATI UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

LAMP ROOM   PGUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <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	
06-10-21	07-10-21	288	194	56	20	BDL	CLOUDY/ CALM
19-10-21	20-10-21	272	182	54	21	BDL	CLOUDY/ L.BREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH September 2000		<b>600</b>	<b>300</b>	-	<b>120</b>	<b>120</b>	

MANAGER OFFICE   PMUA1							
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	
06-10-21	07-10-21	278	188	60	21	BDL	CLOUDY/ CALM
19-10-21	20-10-21	286	179	56	22	BDL	CLOUDY/ L.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>	

COLONY EDC DISPENSARY   PGUA3							
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	
06-10-21	07-10-21	142	96	40	15	BDL	CLOUDY/ CALM
19-10-21	20-10-21	134	88	36	16	BDL	CLOUDY/ L.BREEZE
NAAQS, 2009		-	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	

GUEST HOUSE PARASIA   PMUA4							
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	
06-10-21	07-10-21	140	88	44	16	BDL	CLOUDY/ CALM
19-10-21	20-10-21	134	84	38	15	BDL	CLOUDY/ L.BREEZE
NAAQS, 2009		-	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	



Analysed by



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**NOISE LEVEL MONITORING DATA**

<b>FAN HOUSE: PGUN1</b>			
<b>MONTH</b>	<b>DATE OF SAMPLE COLLECTION</b>	<b>NOISE LEVEL IN dB(A)</b>	
		<b>DAY TIME</b>	<b>NIGHT TIME</b>
	<b>DETECTION LIMIT</b>	<b>20</b>	<b>20</b>
OCT'21	13.10.2021	45.7	44.6
OCT'21	26.10.2021	46.4	45.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY: PGUN2</b>			
<b>MONTH</b>	<b>DATE OF SAMPLE COLLECTION</b>	<b>NOISE LEVEL IN dB(A)</b>	
		<b>DAY TIME</b>	<b>NIGHT TIME</b>
	<b>DETECTION LIMIT</b>	<b>20</b>	<b>20</b>
OCT'21	13.10.2021	43.8	42.9
OCT'21	26.10.2021	43.6	42.8
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

# JAMUNIA UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## 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/OCT-21/59	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	PENCH	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	JAMUNIA UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD	LSOP 4		

MANAGER OFFICE   PJUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <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>	
08-10-21	09-10-21	272	186	58	20	BDL	CLOUDY/ CALM
21-10-21	22-10-21	294	192	60	21	BDL	CLOUDY/ L.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>	

SUBSTATION   PJUA2							
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>	
08-10-21	09-10-21	278	192	58	20	BDL	CLOUDY/ CALM
21-10-21	22-10-21	296	188	54	22	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 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>	
08-10-21	09-10-21	146	83	42	15	BDL	CLOUDY/ CALM
21-10-21	22-10-21	138	86	38	14	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 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>	
07-10-21	08-10-21	146	94	40	15	BDL	CLOUDY/ CALM
20-10-21	21-10-21	136	86	36	16	BDL	CLEAR/ CALM
NAAQS, 2009		-	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	



Analysed by



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

MINE WATER DISCHARGE: PJUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
*	*	*	*	*
21-10-21	7.86	42	36	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



Analysed by



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**NOISE LEVEL MONITORING DATA**

<b>MANAGER OFFICE: PJUN1</b>			
<b>MONTH</b>	<b>DATE OF SAMPLE COLLECTION</b>	<b>NOISE LEVEL IN dB(A)</b>	
		<b>DAY TIME</b>	<b>NIGHT TIME</b>
<b>DETECTION LIMIT</b>		<b>20</b>	<b>20</b>
OCT'21	13.10.2021	45.5	44.6
OCT'21	26.10.2021	45.7	44.8
<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. 4634420035



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## CMPDI

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

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/OCT-21/60	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	PENCH	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	MAHADEOPURI UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
06-10-21	07-10-21	278	188	60	21	BDL	CLOUDY/ CALM
19-10-21	20-10-21	286	179	56	22	BDL	CLOUDY/ L.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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
06-10-21	07-10-21	288	194	56	20	BDL	CLOUDY/ CALM
19-10-21	20-10-21	272	182	54	21	BDL	CLOUDY/ L.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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
06-10-21	07-10-21	140	88	44	16	BDL	CLOUDY/ CALM
19-10-21	20-10-21	134	84	38	15	BDL	CLOUDY/ L.BREEZE
NAAQS, 2009		-	100	60	80	80	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
06-10-21	07-10-21	142	96	40	15	BDL	CLOUDY/ CALM
19-10-21	20-10-21	134	88	36	16	BDL	CLOUDY/ L.BREEZE
NAAQS, 2009		-	100	60	80	80	



Analysed by


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

MINE WATER DISCHARGE: PMUW1		ANALYSIS RESULTS		
DATE OF SAMPLE COLLECTION	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
*	*	*	*	*
19-10-21	7.82	42	36	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



Analysed by



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**NOISE LEVEL MONITORING DATA**

FAN HOUSE: PMUN1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	13.10.2021	69.5	68.8
OCT'21	26.10.2021	69.8	68.9
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY: PMUN2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	13.10.2021	44.6	43.5
OCT'21	26.10.2021	44.5	43.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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## ENVIRONMENTAL MONITORING REPORT

# NEHARIA UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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TEST REPORT NO.	RIN/TR/OCT-21/61	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	PENCH	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	NEHARIA UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			


SAM OFFICE   PNUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					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	
07-10-21	08-10-21	276	178	56	21	BDL	CLOUDY/ CALM
20-10-21	21-10-21	292	194	62	22	BDL	CLEAR/ 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>	
		5	5	2	6	10	
07-10-21	08-10-21	268	172	58	21	BDL	CLOUDY/ CALM
20-10-21	21-10-21	284	184	60	22	BDL	CLEAR/ 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	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
		5	5	2	6	10	
07-10-21	08-10-21	142	86	36	15	BDL	CLOUDY/ CALM
20-10-21	21-10-21	144	93	40	16	BDL	CLEAR/ CALM
NAAQS, 2009		-	100	60	80	80	

BOKAI TOWNSHIP   PNUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
		5	5	2	6	10	
07-10-21	08-10-21	146	94	40	15	BDL	CLOUDY/ CALM
20-10-21	21-10-21	136	86	36	16	BDL	CLEAR/ CALM
NAAQS, 2009		-	100	60	80	80	

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

MINE WATER DISCHARGE: PNUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
*	*	*	*	*
20-10-21	7.78	48	44	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



Analysed by



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**NOISE LEVEL MONITORING DATA**

FAN HOUSE:		PNUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
OCT'21	13.10.2021	69.7	68.9
OCT'21	26.10.2021	69.8	68.9
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY:		PNUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
OCT'21	13.10.2021	44.7	43.8
OCT'21	26.10.2021	43.9	42.8
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45



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## ENVIRONMENTAL MONITORING REPORT

# NEW SETHIA OC

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## CMPDI

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

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/OCT-21/62	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	PENCH	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	NEW SETHIA OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

NEW SETHIA OC SITE		PSOA1					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
10-10-21	11-10-21	292	184	58	21	BDL	CLOUDY/ CALM
23-10-21	24-10-21	288	179	54	20	BDL	CLEAR/ CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	


SAM OFFICE		PCOA1					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
11-10-21	12-10-21	264	176	54	20	BDL	CLOUDY/ CALM
24-10-21	25-10-21	288	192	58	22	BDL	CLEAR/ CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

CHINDA VILLAGE		PCOA3					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
11-10-21	12-10-21	134	78	38	14	BDL	CLOUDY/ CALM
24-10-21	25-10-21	146	96	44	15	BDL	CLEAR/ CALM
NAAQS, 2009		-	100	60	80	80	

CHINDA COLONY		PSOA2					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <sup>3</sup> )					
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
12-10-21	13-10-21	138	82	42	15	BDL	CLOUDY/ CALM
25-10-21	26-10-21	148	96	46	16	BDL	CLEAR/ CALM
NAAQS, 2009		-	100	60	80	80	



Analysed by



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

MINE WATER DISCHARGE: 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>
*	*	*	*	*
25-10-21	7.62	42	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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**NOISE LEVEL MONITORING DATA**

<b>NEAR MANAGER OFFICE: PSON1</b>			
<b>MONTH</b>	<b>DATE OF SAMPLE COLLECTION</b>	<b>NOISE LEVEL IN dB(A)</b>	
		<b>DAY TIME</b>	<b>NIGHT TIME</b>
	<b>DETECTION LIMIT</b>	<b>20</b>	<b>20</b>
OCT'21	13.10.2021	49.6	48.9
OCT'21	26.10.2021	49.8	48.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY CHINDA: PCON2</b>			
<b>MONTH</b>	<b>DATE OF SAMPLE COLLECTION</b>	<b>NOISE LEVEL IN dB(A)</b>	
		<b>DAY TIME</b>	<b>NIGHT TIME</b>
	<b>DETECTION LIMIT</b>	<b>20</b>	<b>20</b>
OCT'21	13.10.2021	43.7	42.8
OCT'21	26.10.2021	42.9	42.4
<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. 4634420035



OCTOBER 2021

### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## CMPDI

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

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/OCT-21-21/63	DATE OF ISSUE	25.10.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	PENCH	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	SHIVPURI OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SITE OFFICE   PSOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <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>	
10-10-21	11-10-21	268	172	52	19	BDL	CLOUDY/ CALM
23-10-21	24-10-21	288	184	54	20	BDL	CLEAR/ 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 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>	
11-10-21	12-10-21	278	184	58	21	BDL	CLOUDY/ CALM
24-10-21	25-10-21	289	179	54	22	BDL	CLEAR/ 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 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>	
10-10-21	11-10-21	144	84	34	14	BDL	CLOUDY/ CALM
23-10-21	24-10-21	148	92	38	15	BDL	CLEAR/ CALM
NAAQS, 2009		-	100	60	80	80	

CHINDA VILLAGE   PCOA3							
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>	
11-10-21	12-10-21	134	78	38	14	BDL	CLOUDY/ CALM
24-10-21	25-10-21	146	96	44	15	BDL	CLEAR/ CALM
NAAQS, 2009		-	100	60	80	80	



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**NOISE LEVEL MONITORING DATA**

NEAR MANAGER OFFICE:		PSON1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
OCT'21	13.10.2021	53.7	52.8
OCT'21	26.10.2021	53.5	52.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

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## ENVIRONMENTAL MONITORING REPORT

# THESGORA MATHANI UG

PENCH AREA

**WESTERN COALFIELDS LTD.**

JOB NO. 4634420035



OCTOBER 2021

### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## CMPDI

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

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/OCT-21/64	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	PENCH	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	THESGORA MATHANI UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MATHANI VILLAGE   PTUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <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	
09-10-21	10-10-21	138	82	36	14	BDL	CLOUDY/ CALM
22-10-21	23-10-21	146	94	42	15	BDL	CLEAR/ CALM
NAAQS, 2009		-	100	60	80	80	


SAM OFFICE   PTUA2							
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	242	174	56	18	10	
10-10-21	11-10-21	274	182	52	21	BDL	CLOUDY/ CALM
23-10-21	24-10-21	292	196	58	23	BDL	CLEAR/ 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 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	
09-10-21	10-10-21	278	164	54	21	BDL	CLOUDY/ CALM
22-10-21	23-10-21	292	184	60	23	BDL	CLEAR/ 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 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	
09-10-21	10-10-21	136	86	34	15	BDL	CLOUDY/ CALM
22-10-21	23-10-21	144	94	38	16	BDL	CLEAR/ CALM
NAAQS, 2009		-	100	60	80	80	



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

MINE WATER DISCHARGE: 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
*	*	*	*	*
23-10-21	7.58	42	36	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

<b>FAN HOUSE-MATHANI: PTUN1</b>			
<b>MONTH</b>	<b>DATE OF SAMPLE COLLECTION</b>	<b>NOISE LEVEL IN dB(A)</b>	
		<b>DAY TIME</b>	<b>NIGHT TIME</b>
	<b>DETECTION LIMIT</b>	<b>20</b>	<b>20</b>
OCT'21	13.10.2021	70.6	69.8
OCT'21	26.10.2021	70.7	69.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY-THESGORA: PTUN2</b>			
<b>MONTH</b>	<b>DATE OF SAMPLE COLLECTION</b>	<b>NOISE LEVEL IN dB(A)</b>	
		<b>DAY TIME</b>	<b>NIGHT TIME</b>
	<b>DETECTION LIMIT</b>	<b>20</b>	<b>20</b>
OCT'21	13.10.2021	44.7	43.9
OCT'21	26.10.2021	44.8	43.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

### URDHAN OC

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

### CMPDI

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

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/OCT-21/65	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	PENCH	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	URDHAN OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

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>	
09-10-21	10-10-21	284	182	56	21	BDL	CLOUDY/ CALM
22-10-21	23-10-21	296	196	60	22	BDL	CLEAR/ 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 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>	
09-10-21	10-10-21	146	86	38	15	BDL	CLOUDY/ CALM
22-10-21	23-10-21	134	94	40	14	BDL	CLEAR/ CALM
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>	
07-10-21	08-10-21	142	86	36	15	BDL	CLOUDY/ CALM
20-10-21	21-10-21	144	93	40	16	BDL	CLEAR/ CALM
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>	
07-10-21	08-10-21	146	94	40	15	BDL	CLOUDY/ CALM
20-10-21	21-10-21	136	86	36	16	BDL	CLEAR/ CALM
NAAQS, 2009		-	100	60	80	80	



Analysed by



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

MINE WATER DISCHARGE: PUOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
*	*	*	*	*
22-10-21	7.54	68	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**

<b>MANAGER OFFICE: PUON1</b>			
<b>MONTH</b>	<b>DATE OF SAMPLE COLLECTION</b>	<b>NOISE LEVEL IN dB(A)</b>	
		<b>DAY TIME</b>	<b>NIGHT TIME</b>
	<b>DETECTION LIMIT</b>	<b>20</b>	<b>20</b>
OCT'21	13.10.2021	55.6	54.8
OCT'21	26.10.2021	55.4	54.8
<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. 4634420035



OCTOBER 2021

### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

### CMPDI

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

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/OCT-21/67	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	PENCH	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	VISHNUPURI-II UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

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>	
11-10-21	12-10-21	278	178	60	22	BDL	CLOUDY/ CALM
24-10-21	25-10-21	292	189	58	21	BDL	CLEAR/ 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 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>	
11-10-21	12-10-21	278	184	58	21	BDL	CLOUDY/ CALM
24-10-21	25-10-21	289	179	54	22	BDL	CLEAR/ 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 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>	
10-10-21	11-10-21	144	84	34	14	BDL	CLOUDY/ CALM
23-10-21	24-10-21	148	92	38	15	BDL	CLEAR/ CALM
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>	
11-10-21	12-10-21	134	78	38	14	BDL	CLOUDY/ CALM
24-10-21	25-10-21	146	96	44	15	BDL	CLEAR/ CALM
NAAQS, 2009		-	100	60	80	80	



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

MINE WATER DISCHARGE: 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
*	*	*	*	*
24-10-21	7.62	52	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**

<b>FAN HOUSE UG-II:</b>		<b>PV2UN1</b>	
<b>MONTH</b>	<b>DATE OF SAMPLE COLLECTION</b>	<b>NOISE LEVEL IN dB(A)</b>	
		<b>DAY TIME</b>	<b>NIGHT TIME</b>
	<b>DETECTION LIMIT</b>	<b>20</b>	<b>20</b>
OCT'21	13.10.2021	69.8	68.9
OCT'21	26.10.2021	69.7	68.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY(VISHNUPURI-I):</b>		<b>PV1UN2</b>	
<b>MONTH</b>	<b>DATE OF SAMPLE COLLECTION</b>	<b>NOISE LEVEL IN dB(A)</b>	
		<b>DAY TIME</b>	<b>NIGHT TIME</b>
	<b>DETECTION LIMIT</b>	<b>20</b>	<b>20</b>
OCT'21	13.10.2021	44.5	43.7
OCT'21	26.10.2021	44.7	43.8
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

# VISHNUPURI-I UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## CMPDI

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

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/OCT-21/66	DATE OF ISSUE	25.11.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	PENCH	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	VISHNUPURI-I UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

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>	
11-10-21	12-10-21	278	178	60	22	BDL	CLOUDY/ CALM
24-10-21	25-10-21	292	189	58	21	BDL	CLEAR/ 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 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>	
11-10-21	12-10-21	278	184	58	21	BDL	CLOUDY/ CALM
24-10-21	25-10-21	289	179	54	22	BDL	CLEAR/ 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 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>	
10-10-21	11-10-21	144	84	34	14	BDL	CLOUDY/ CALM
23-10-21	24-10-21	148	92	38	15	BDL	CLEAR/ CALM
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>	
11-10-21	12-10-21	134	78	38	14	BDL	CLOUDY/ CALM
24-10-21	25-10-21	146	96	44	15	BDL	CLEAR/ CALM
NAAQS, 2009		-	100	60	80	80	



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**NOISE LEVEL MONITORING DATA**

<b>FAN HOUSE UG-I: PV1UN1</b>			
<b>MONTH</b>	<b>DATE OF SAMPLE COLLECTION</b>	<b>NOISE LEVEL IN dB(A)</b>	
		<b>DAY TIME</b>	<b>NIGHT TIME</b>
	<b>DETECTION LIMIT</b>	<b>20</b>	<b>20</b>
OCT'21	13.10.2021	46.9	45.7
OCT'21	26.10.2021	45.8	44.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY: PV2UN2</b>			
<b>MONTH</b>	<b>DATE OF SAMPLE COLLECTION</b>	<b>NOISE LEVEL IN dB(A)</b>	
		<b>DAY TIME</b>	<b>NIGHT TIME</b>
	<b>DETECTION LIMIT</b>	<b>20</b>	<b>20</b>
OCT'21	13.10.2021	44.5	43.7
OCT'21	26.10.2021	44.7	43.8
<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. 4634420035



OCTOBER 2021

### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## 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/OCT-21/79	DATE OF ISSUE	25-11-21
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	PATHARKHERA	SAMPLING PLAN :	LQR 47
NAME OF PROJECT	CHATTARPUR I & II UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD :	LSOP 4		

SUBSTATION- CHATTARPUR I UG   PKCUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <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>	
04-10-21	05-10-21	270	188	39	14	10	Clear/Lightbreeze
16-10-21	17-10-21	261	171	46	13	BDL	Cloudy/Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SAM OFFICE   PKCUA2							
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>	
04-10-21	05-10-21	258	165	34	13	BDL	Clear/Lightbreeze
16-10-21	17-10-21	270	178	42	15	11	Cloudy/Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SUBSTATION-CHATTARPUR II UG   PKCUA3							
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>	
04-10-21	05-10-21	251	158	35	14	11	Clear/Lightbreeze
16-10-21	17-10-21	278	170	47	12	BDL	Cloudy/Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

CHATTARPUR VILLAGE   PKCUA4							
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>	
04-10-21	05-10-21	112	81	25	10	BDL	Clear/Lightbreeze
16-10-21	17-10-21	120	92	22	9	BDL	Cloudy/Lightbreeze
NAAQS, 2009		-	100	60	80	80	

*labindhume*

Analysed by

*Deepanshu sahu*

Deepanshu sahu  
Authorised Signatory

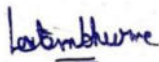
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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP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

MINE WATER DISCHARGE-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
*	*	*	*	*
24-10-21	8.42	26	36	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
*	*	*	*	*
24-10-21	8.11	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**

FAN HOUSE-I UG:		PKCUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	05-10-21	71.7	71.5
OCT'21	19-10-21	69.6	68.8
<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
OCT'21	05-10-21	72.5	72.3
OCT'21	19-10-21	70.2	69.1
<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
OCT'21	05-10-21	44.6	43.6
OCT'21	19-10-21	38.7	35.3
<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. 4634420035



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/OCT-21/80	DATE OF ISSUE	25-11-21
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance		
NAME OF AREA	PATHARKHERA	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	SARNI UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in 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>	
07-10-21	08-10-21	278	187	33	14	11	Clear/ Lightbreeze
19-10-21	20-10-21	265	171	43	12	BDL	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 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>	
07-10-21	08-10-21	247	155	35	13	BDL	Clear/ Lightbreeze
19-10-21	20-10-21	260	167	42	12	BDL	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 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>	
07-10-21	08-10-21	127	88	22	10	BDL	Clear/ Lightbreeze
19-10-21	20-10-21	120	72	29	9	BDL	Cloudy/ Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		-	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>	
07-10-21	08-10-21	119	74	26	9	BDL	Clear/ Lightbreeze
19-10-21	20-10-21	128	88	33	10	BDL	Cloudy/ Calm
NAAQS, 2009		-	100	60	80	80	

*Labankhume*

Analysed by

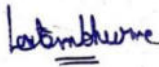
*Deepanshu sahu*

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

MINE WATER DISCHARGE: 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
*	*	*	*	*
19-10-21	8.12	24	40	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



Analysed by



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**NOISE LEVEL MONITORING DATA**

FAN HOUSE:		PKSUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
			20
OCT'21	05-10-21	72.7	72.5
OCT'21	19-10-21	71.8	65.2
<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
			20
OCT'21	05-10-21	43.7	43.4
OCT'21	19-10-21	42.6	39.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

# SHOBHAPUR UG

PATHAKHERA AREA 

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## CMPDI

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

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/OCT-21/81	DATE OF ISSUE	25-11-21
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	PATHARKHERA	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	SHOBHAPUR UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in 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>	
05-10-21	06-10-21	246	155	40	12	BDL	Clear / Lightbreeze
17-10-21	18-10-21	264	167	46	11	BDL	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 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>	
05-10-21	06-10-21	257	167	39	14	11	Clear / Lightbreeze
17-10-21	18-10-21	240	145	42	12	BDL	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 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>	
06-10-21	07-10-21	122	80	27	9	BDL	Clear / Lightbreeze
17-10-21	18-10-21	114	92	22	10	BDL	Cloudy / Calm
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>	
06-10-21	07-10-21	109	79	26	9	BDL	Clear / Lightbreeze
17-10-21	18-10-21	119	82	30	10	BDL	Cloudy / Calm
NAAQS, 2009		-	100	60	80	80	

*Latimkhurme*

Analysed by

*Deepanshu sahu*


Deepanshu sahu  
Authorised Signatory

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

MINE WATER DISCHARGE: 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
*	*	*	*	*
*	*	*	*	*
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

FAN HOUSE:		PKSUN1	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	05-10-21	71.7	71.4
OCT'21	19-10-21	56.3	53.5
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY(SHOBHAPUR):		PKSUN2	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIHT TIME
	DETECTION LIMIT	20	20
OCT'21	05-10-21	44.6	43.7
OCT'21	19-10-21	44.1	42.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

# TAWA-II UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



OCTOBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## CMPDI

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

AN ISO 9001:2015 COMPANY

<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/OCT-21/82	DATE OF ISSUE	25-11-21
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	PATHARKHERA	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	TAWA-II UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

MANAGER OFFICE- TAWA II   PKT2UA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <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	
06-10-21	07-10-21	264	178	37	12	BDL	Clear / Lightbreeze
18-10-21	19-10-21	259	169	43	13	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   PKTUA1							
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	
06-10-21	07-10-21	279	182	41	15	11	Clear / Lightbreeze
18-10-21	19-10-21	260	163	47	13	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>	

MPEB COLONY   PKTUA3							
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	
05-10-21	06-10-21	129	82	27	10	BDL	Clear / Lightbreeze
18-10-21	19-10-21	120	90	24	9	BDL	Cloudy / Calm
NAAQS, 2009		-	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	

HIRA PALLA/BHAGAIKHAPA VILLAGE   PKT2UA4							
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	
06-10-21	07-10-21	111	77	25	10	BDL	Clear / Lightbreeze
18-10-21	19-10-21	121	83	31	9	BDL	Cloudy / Calm
NAAQS, 2009		-	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	

*labimkhane*

Analysed by

*Deepanshu*

Deepanshu sahu  
Authorised Signatory

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

MINE WATER DISCHARGE: 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
*	*	*	*	*
18-10-21	8.29	26	36	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

FAN HOUSE:		PKTUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
OCT'21	05-10-21	72.6	72.4
OCT'21	19-10-21	68.8	62.3
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

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## ENVIRONMENTAL MONITORING REPORT

### TAWA UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



OCTOBER 2021

### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

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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/OCT-21/83	DATE OF ISSUE	25-11-21
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <sub>2</sub> : IS 5182 Part-06:2006(2017), SO <sub>2</sub> :IS 5182 Part-2:2001 (RA 2017)		
NAME OF AREA	PATHERKHERA	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	TAWA UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SAM OFFICE   PKTUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
06-10-21	07-10-21	279	182	41	15	11	Clear / Lightbreeze
18-10-21	19-10-21	260	163	47	13	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>	
06-10-21	07-10-21	264	178	37	12	BDL	Clear / Lightbreeze
18-10-21	19-10-21	259	169	43	13	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	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
05-10-21	06-10-21	129	82	27	10	BDL	Clear / Lightbreeze
18-10-21	19-10-21	120	90	24	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	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
06-10-21	07-10-21	111	77	25	10	BDL	Clear / Lightbreeze
18-10-21	19-10-21	121	83	31	9	BDL	Cloudy / Calm
NAAQS, 2009		-	100	60	80	80	



Analysed by



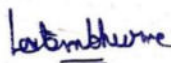
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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP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

MINE WATER DISCHARGE: 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
*	*	*	*	*
18-10-21	8.26	28	36	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

<b>FAN HOUSE: PKTUN1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'21	05-10-21	72.6	72.3
OCT'21	19-10-21	72.1	63.8
<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	20
OCT'21	05-10-21	43.5	42.7
OCT'21	19-10-21	38.9	35.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>