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## ENVIRONMENTAL MONITORING REPORT

# BALLARPUR OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



DECEMBER 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/DEC-21/27	DATE OF ISSUE	15.01.2022	
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR			
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021			
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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>	
09.12.2021	10.12.2021	232	159	47	11	BDL	Sunny / Lightbreeze
25.12.2021	26.12.2021	220	166	49	12	BDL	Clear / 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>	
08.12.2021	09.12.2021	218	154	57	10	BDL	Sunny / Lightbreeze
24.12.2021	25.12.2021	204	147	54	9	BDL	Clear / 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>	
08.12.2021	09.12.2021	157	122	42	6	BDL	Sunny / Lightbreeze
24.12.2021	25.12.2021	166	128	48	7	BDL	Clear / 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>	
09.12.2021	10.12.2021	132	85	28	6	BDL	Sunny / Lightbreeze
25.12.2021	26.12.2021	128	88	24	7	BDL	Clear / 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
08.12.2021	7.57	16	24	BDL
24.12.2021	7.54	22	32	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
08.12.2021	7.18	24	32	BDL
24.12.2021	7.52	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>CHP: BBUN1</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
DEC'21	08-12-2021	66.5	65.7
DEC'21	25-12-2021	66.5	65.8
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY BALLARPUR UG: BBUN2</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
DEC'21	08-12-2021	44.6	43.7
DEC'21	25-12-2021	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

# BALLARPUR UG

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



DECEMBER 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/DEC-21/28	DATE OF ISSUE	15.01.2022	
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR			
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021			
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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					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>	
09.12.2021	10.12.2021	232	159	47	11	BDL	Sunny/Lightbreeze
25.12.2021	26.12.2021	220	166	49	12	BDL	Clear/Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SUBSTATION		BBOA2					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
08.12.2021	09.12.2021	218	154	57	10	BDL	Sunny/Lightbreeze
24.12.2021	25.12.2021	204	147	54	9	BDL	Clear/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					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
08.12.2021	09.12.2021	157	122	42	6	BDL	Sunny/Lightbreeze
24.12.2021	25.12.2021	166	128	48	7	BDL	Clear/Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

FILTER PLANT COLONY		BBUA4					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
09.12.2021	10.12.2021	132	85	28	6	BDL	Sunny/Lightbreeze
25.12.2021	26.12.2021	128	88	24	7	BDL	Clear/Lightbreeze
NAAQS, 2009		-	100	60	80	80	



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: BBUW1		ANALYSIS RESULTS		
DATE OF SAMPLE COLLECTION	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
09.12.2021	7.52	18	28	BDL
25.12.2021	7.88	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: BBUN1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	08-12-2021	71.7	70.8
DEC'21	25-12-2021	71.8	70.9
<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
DEC'21	08-12-2021	44.6	43.7
DEC'21	25-12-2021	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

# GOURI-I & II (A) OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



DECEMBER 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/DEC-21/30	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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							
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>	
07.12.2021	08.12.2021	238	147	49	12	10	Cloudy/Lightbreeze
23.12.2021	24.12.2021	232	142	45	11	BDL	Sunny/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							
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>	
06.12.2021	07.12.2021	218	138	42	13	10	Cloudy/Lightbreeze
22.12.2021	23.12.2021	222	127	44	12	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>	
07.12.2021	08.12.2021	127	65	24	7	BDL	Cloudy/Lightbreeze
23.12.2021	24.12.2021	132	67	28	6	BDL	Cloudy/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)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
05.12.2021	06.12.2021	138	84	24	7	BDL	Cloudy/Lightbreeze
21.12.2021	22.12.2021	128	79	26	6	BDL	Cloudy/Lightbreeze
NAAQS, 2009		-	100	60	80	80	

*J. Shrivastava*

Analysed by

*Deepanshu sahu*

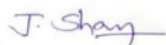
Deepanshu sahu  
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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)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

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
07.12.2021	7.45	26	36	BDL
23.12.2021	7.87	20	28	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

ETP DISCHARGE: BGOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
07.12.2021	7.35	18	28	BDL
23.12.2021	7.63	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>CHP: BGON1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	08-12-2021	65.7	64.8
DEC'21	25-12-2021	65.8	64.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>GOURI COLONY: BSON2</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	08-12-2021	43.5	42.7
DEC'21	25-12-2021	43.5	42.7
<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



DECEMBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

## CMPDI

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JARIPATKA, NAGPUR, PIN – 440 014

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	
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TEST REPORT NO.	RIN/TR/DEC-21/29	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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			

DATE(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>	
04.12.2021	05.12.2021	224	147	47	13	BDL	Cloudy/Lightbreeze
20.12.2021	21.12.2021	218	142	49	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>x</sub>	So <sub>x</sub>	
04.12.2021	05.12.2021	138	82	28	7	BDL	Cloudy/Lightbreeze
20.12.2021	21.12.2021	124	95	24	6	BDL	Clear/Lightbreeze
NAAQS, 2009		-	100	60	80	80	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>x</sub>	So <sub>x</sub>	
04.12.2021	05.12.2021	124	92	29	8	BDL	Cloudy/Lightbreeze
20.12.2021	21.12.2021	137	96	26	7	BDL	Clear/Lightbreeze
NAAQS, 2009		-	100	60	80	80	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>x</sub>	So <sub>x</sub>	
04.12.2021	05.12.2021	132	82	27	7	BDL	Cloudy/Lightbreeze
20.12.2021	21.12.2021	127	84	22	6	BDL	Clear/Lightbreeze
NAAQS, 2009		-	100	60	80	80	

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

MINE WATER DISCHARGE: BGDW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
04.12.2021	7.61	16	24	BDL
20.12.2021	7.52	28	32	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

ETP(WORKSHOP) DISCHARGE: BGDW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
04.12.2021	7.68	22	32	BDL
20.12.2021	7.96	26	40	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



Analysed by


Deepanshu sahu  
Authorised Signatory

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**NOISE LEVEL MONITORING DATA**

<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>
DEC'21	08-12-2021	55.6	54.8
DEC'21	25-12-2021	55.7	54.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>



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## ENVIRONMENTAL MONITORING REPORT

# NEW DHOPTALA OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



DECEMBER 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>	
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TEST REPORT NO.	RIN/TR/DEC-21/31	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance		
NAME OF AREA	BALLARPUR	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	NEW DHOPTALA OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
08.12.2021	09.12.2021	227	157	52	13	BDL	Sunny/Lightbreeze
24.12.2021	25.12.2021	232	162	56	11	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>	
09.12.2021	10.12.2021	242	172	54	13	BDL	Sunny/Lightbreeze
25.12.2021	26.12.2021	228	168	58	9	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>	
08.12.2021	09.12.2021	128	78	24	6	BDL	Cloudy/Lightbreeze
24.12.2021	25.12.2021	132	67	27	7	BDL	Clear/Lightbreeze
NAAQS, 2009		-	100	60	80	80	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
04.12.2021	05.12.2021	138	82	28	7	BDL	Cloudy/Lightbreeze
20.12.2021	21.12.2021	124	95	24	6	BDL	Clear/Lightbreeze
NAAQS, 2009		-	100	60	80	80	

*J. Shrivastava*

Analysed by

*Deepanshu sahu*

Deepanshu sahu  
Authorised Signatory

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**NOISE LEVEL MONITORING DATA**

<b>CHP: BNDON1</b>			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	08-12-2021	62.7	61.8
DEC'21	25-12-2021	62.8	67.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>SASTI COLONY: BSUN2</b>			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	08-12-2021	43.5	42.7
DEC'21	25-12-2021	43.5	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



DECEMBER 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/DEC-21/33	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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 : LSOP 4			

MINE OFFICE   BP20A1							
DATE(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>	
06.12.2021	07.12.2021	226	147	56	11	BDL	Cloudy/Lightbreeze
22.12.2021	23.12.2021	232	144	59	10	BDL	Cloudy/Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SUBSTATION   BP20A2							
DATE(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>	
06.12.2021	07.12.2021	218	128	47	12	BDL	Cloudy/Lightbreeze
22.12.2021	23.12.2021	222	124	44	11	BDL	Cloudy/Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SAKHARI VILLAGE   BP20A3							
DATE(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>	
06.12.2021	07.12.2021	128	78	24	6	BDL	Cloudy/Lightbreeze
22.12.2021	23.12.2021	124	72	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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
05.12.2021	06.12.2021	238	162	42	12	BDL	Cloudy/Lightbreeze
21.12.2021	22.12.2021	222	147	45	11	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

*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: 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
06.12.2021	7.79	14	20	BDL
22.12.2021	7.93	18	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>MANAGER OFFICE:</b>		<b>BPON1</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>
			20
DEC'21	08-12-2021	56.6	55.7
DEC'21	25-12-2021	56.7	55.8
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

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## ENVIRONMENTAL MONITORING REPORT

### PAUNI OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



DECEMBER 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/DEC-21/32	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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			

DATE(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>	
05.12.2021	06.12.2021	228	165	57	13	BDL	Cloudy/Lightbreeze
21.12.2021	22.12.2021	236	158	59	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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
05.12.2021	06.12.2021	238	162	42	12	BDL	Cloudy/Lightbreeze
21.12.2021	22.12.2021	222	147	45	11	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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
05.12.2021	06.12.2021	128	88	28	9	BDL	Cloudy/Lightbreeze
21.12.2021	22.12.2021	124	86	24	7	BDL	Cloudy/Lightbreeze
NAAQS, 2009		-	100	60	80	80	

DATE(dd:mm:yy)OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
05.12.2021	06.12.2021	138	84	24	7	BDL	Cloudy/Lightbreeze
21.12.2021	22.12.2021	128	79	26	6	BDL	Clear/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: 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
05.12.2021	7.61	18	28	BDL
21.12.2021	7.68	16	20	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
05.12.2021	7.76	26	36	BDL
21.12.2021	7.93	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
DEC'21	08-12-2021	56.5	55.7
DEC'21	25-12-2021	56.6	55.8
<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
DEC'21	08-12-2021	43.7	42.8
DEC'21	25-12-2021	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

### SASTI OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



DECEMBER 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/DEC-21/34	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
07.12.2021	08.12.2021	232	138	47	11	BDL	Cloudy/Lightbreeze
23.12.2021	24.12.2021	224	142	57	10	BDL	Sunny/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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
07.12.2021	08.12.2021	218	127	38	10	BDL	Cloudy/Lightbreeze
23.12.2021	24.12.2021	227	134	32	9	BDL	Sunny/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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
07.12.2021	08.12.2021	127	65	24	7	BDL	Cloudy/Lightbreeze
23.12.2021	24.12.2021	132	67	28	6	BDL	Sunny/Lightbreeze
NAAQS, 2009		-	100	60	80	80	

SASTI VILLAGE BSUA4							
DATE(dd:mm:yy)OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>x</sub>	So <sub>x</sub>	
09.12.2021	10.12.2021	122	65	22	8	BDL	Sunny/Lightbreeze
25.12.2021	26.12.2021	134	74	29	6	BDL	Clear/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: 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
07.12.2021	7.47	18	28	BDL
24.12.2021	7.81	26	36	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
07.12.2021	7.42	22	40	BDL
24.12.2021	7.91	24	32	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
07.12.2021	26	10.2
24.12.2021	24	11.1
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)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	08-12-2021	65.6	64.8
DEC'21	25-12-2021	65.7	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)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	08-12-2021	43.7	42.8
DEC'21	25-12-2021	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

### SASTI UG

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



DECEMBER 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/DEC-21/35	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
08.12.2021	09.12.2021	227	157	52	13	BDL	Sunny/Lightbreeze
24.12.2021	25.12.2021	232	162	56	11	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>	
09.12.2021	10.12.2021	242	172	54	13	BDL	Sunny/Lightbreeze
25.12.2021	26.12.2021	228	168	58	9	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>	
08.12.2021	09.12.2021	128	78	24	6	BDL	Sunny/Lightbreeze
24.12.2021	25.12.2021	132	67	27	7	BDL	Clear/Lightbreeze
NAAQS, 2009		-	100	60	80	80	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	No <sub>2</sub>	So <sub>2</sub>	
09.12.2021	10.12.2021	122	65	22	8	BDL	Sunny/Lightbreeze
25.12.2021	26.12.2021	134	74	29	6	BDL	Clear/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
09.12.2021	7.67	24	32	BDL
25.12.2021	7.77	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**

<b>FAN HOUSE:</b>		<b>BSUN1</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
DEC'21	08-12-2021	69.6	68.8
DEC'21	25-12-2021	69.8	68.8
<b>NOISE POLLUTION (REGULATION AND</b>		<b>75</b>	<b>70</b>

<b>SASTI COLONY:</b>		<b>BSUN2</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
DEC'21	08-12-2021	43.5	42.7
DEC'21	25-12-2021	43.5	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



DECEMBER 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/DEC-21/17	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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>	
12.12.2021	13.12.2021	274	176	50	38	20	Cloudy Sky / Calm
27.12.2021	28.12.2021	254	171	48	32	18	Cloudy Sky / Calm
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>	
12.12.2021	13.12.2021	286	156	58	36	21	Cloudy Sky / Calm
27.12.2021	28.12.2021	282	152	51	31	19	Cloudy Sky / Calm
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>	
12.12.2021	13.12.2021	175	76	30	24	11	Cloudy Sky / Calm
27.12.2021	28.12.2021	182	78	32	20	10	Cloudy Sky / Calm
NAAQS, 2009		-	100	60	80	80	

VADHOLI VILLAGE CBOA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
12.12.2021	13.12.2021	168	64	29	23	12	Cloudy Sky / Calm
27.12.2021	28.12.2021	153	61	27	21	10	Cloudy Sky / Calm
NAAQS, 2009		-	100	60	80	80	

*R. Anupama*

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: 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
12.12.2021	7.8	40	48	BDL
27.12.2021	7.6	58	68	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
12.12.2021	7.60	18	28	BDL
27.12.2021	7.5	22	32	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
12.12.2021	11.4	54
27.12.2021	12.6	76
GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS GSR 801E EPA 1993	100	30

*R. Anupama*

Analysed by

*Deepanshu*

Deepanshu sahu  
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**NOISE LEVEL MONITORING DATA**

<b>CHP:</b>		<b>CBON1</b>	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	11-12-2021	67.4	66.6
DEC'21	27-12-2021	67.2	66.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY:</b>		<b>CBON2</b>	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	11-12-2021	42.2	41.4
DEC'21	27-12-2021	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

### CRC UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



DECEMBER 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/DEC-21/18	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09.12.2021	10.12.2021	298	160	56	26	16	CLOUDY/ CALM
24.12.2021	25.12.2021	308	168	58	30	18	CLOUDY/ CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

CRC SUBSTATION/ FILTER PLANT CCRUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
10.12.2021	11.12.2021	284	176	60	36	17	CLOUDY/ CALM
25.12.2021	26.12.2021	302	182	62	38	20	CLOUDY/ CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

JATWARA MILK SCHEME CCRUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
10.12.2021	11.12.2021	268	186	56	38	19	CLOUDY/ CALM
25.12.2021	26.12.2021	275	188	60	40	22	CLOUDY/ CALM
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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09.12.2021	10.12.2021	182	90	36	22	10	CLOUDY/ CALM
24.12.2021	25.12.2021	191	92	40	24	12	CLOUDY/ CALM
NAAQS, 2009		-	100	60	80	80	

*R. Anupama*

Analysed by

*S. S.*

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
10.12.2021	7.10	20	32	BDL
25.12.2021	7.4	18	22	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>CHP:</b>		<b>CCRUN1</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
DEC'21	11-12-2021	66.2	65.4
DEC'21	27-12-2021	66.3	65.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY:</b>		<b>CCRUN2</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
DEC'21	11-12-2021	42.3	41.5
DEC'21	27-12-2021	42.2	41.3
<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



DECEMBER 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>	
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TEST REPORT NO.	RIN/TR/DEC-21/19	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
03.12.2021	04.12.2021	5	5	2	6	10	Clear Sky / lightbreeze
19.12.2021	20.12.2021	259	150	54	35	20	Cloudy Sky /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>	
03.12.2021	04.12.2021	5	5	2	6	10	Clear Sky / lightbreeze
19.12.2021	20.12.2021	248	142	41	30	19	Cloudy Sky /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>	
03.12.2021	04.12.2021	5	5	2	6	10	Clear Sky / lightbreeze
19.12.2021	20.12.2021	160	80	40	32	21	Cloudy Sky /Lightbreeze
NAAQS, 2009		-	100	60	80	80	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
03.12.2021	04.12.2021	5	5	2	6	10	Clear Sky / lightbreeze
19.12.2021	20.12.2021	271	165	60	36	22	Cloudy Sky /Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

*A. Anupurna*

Analysed by

*[Signature]*

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: 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
04.12.2021	7.5	24	36	BDL
10.12.2021	6.9	22	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>FAN HOUSE:</b>		<b>CDRUN1</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
DEC'21	11-12-2021	69.4	68.7
DEC'21	27-12-2021	69.2	68.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>DURGAPUR COLONY:</b>		<b>CDRUN2</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
DEC'21	11-12-2021	42.4	41.7
DEC'21	27-12-2021	42.4	41.7
<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



DECEMBER 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/DEC-21/20	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
10.12.2021	11.12.2021	279	160	56	40	20	Cloudy / Calm
25.12.2021	26.12.2021	281	154	58	38	22	Cloudy / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

DURGAPUR VILLAGE   CDOA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
10.12.2021	11.12.2021	165	74	38	28	12	Cloudy / Calm
25.12.2021	26.12.2021	172	76	40	30	13	Cloudy / Calm
NAAQS, 2009		-	100	60	80	80	

MANAGER OFFICE Q-IV   CPOA1(Padmapur)							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
10.12.2021	11.12.2021	258	149	58	46	22	Cloudy / Calm
25.12.2021	26.12.2021	251	152	60	38	20	Cloudy / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

FILTER PLANT DOC/POC COLONY   CDOA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
10.12.2021	11.12.2021	189	78	44	29	13	Cloudy / Calm
25.12.2021	26.12.2021	194	80	48	30	14	Cloudy / Calm
NAAQS, 2009		-	100	60	80	80	

*R. Anupama*

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 Q-II CDOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
11.12.2021	7.7	58	64	BDL
26.12.2021	7.6	64	68	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

MINE WATER DISCHARGE Q-IV CDOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
11.12.2021	6.7	20	32	BDL
26.12.2021	6.6	28	36	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

ETP(WORKSHOP): CDOW3				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
11.12.2021	7.5	24	36	BDL
26.12.2021	7.6	32	48	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
11.12.2021	12	60
26.12.2021	14.4	76
GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS	100	30

*R. Annapurna*

Analysed by

*Deepanshu sahu*

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**NOISE LEVEL MONITORING DATA**

<b>CHP: CDON1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	11-12-2021	66.5	65.7
DEC'21	27-12-2021	66.2	65.4
<b>NOISE POLLUTION (REGULATION AND</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	20
DEC'21	11-12-2021	42.4	41.7
DEC'21	27-12-2021	42.4	41.7
<b>NOISE POLLUTION (REGULATION AND</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



DECEMBER 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/DEC-21/22	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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							
DATE(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>	
07.12.2021	08.12.2021	280	182	57	43	22	Cloudy Sky / Calm
22.12.2021	23.12.2021	292	188	58	46	23	Cloudy Sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

PIT OFFICE - HLC-I INCLINE CHUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
07.12.2021	08.12.2021	250	166	37	27	14	Cloudy Sky / Calm
22.12.2021	23.12.2021	261	167	38	29	15	Cloudy Sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

HLC-III COLONY CHUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
07.12.2021	08.12.2021	174	88	36	24	12	Cloudy Sky / Calm
22.12.2021	23.12.2021	165	84	34	25	13	Cloudy Sky / Calm
NAAQS, 2009		-	100	60	80		

RAJIV GANDHI ENGG. COLLEGE CHUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					Rainy/Windy
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
07.12.2021	08.12.2021	183	90	40	36	14	Cloudy Sky / Calm
22.12.2021	23.12.2021	180	92	41	31	15	Cloudy Sky / Calm
NAAQS, 2009		-	100	60	80	80	

*A. Anupama*

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(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
07.12.2021	7.63	28	36	BDL
22.12.2021	7.32	32	48	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
07.12.2021	7.20	30	40	BDL
22.12.2021	7.41	34	52	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

*R. Anupama*

Analysed by

*Deepanshu sahu*

Deepanshu sahu  
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**NOISE LEVEL MONITORING DATA**

<b>FAN HOUSE-I: CHUN1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	11-12-2021	69.5	68.7
DEC'21	27-12-2021	69.2	68.5
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY: CHUN2</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	11-12-2021	42.2	41.5
DEC'21	27-12-2021	42.5	45.7
<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



DECEMBER 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/DEC-21/21	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09.12.2021	10.12.2021	285	178	56	40	22	Cloudy Sky / Calm
24.12.2021	25.12.2021	290	181	60	41	24	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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08.12.2021	09.12.2021	295	182	55	38	23	Cloudy Sky / Calm
23.12.2021	24.12.2021	301	184	57	40	24	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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08.12.2021	09.12.2021	152	80	43	32	19	Cloudy Sky / Calm
23.12.2021	24.12.2021	158	81	44	33	18	Cloudy Sky / Calm
NAAQS, 2009		-	100	60	80	80	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09.12.2021	10.12.2021	190	86	30	26	12	Cloudy Sky / Calm
24.12.2021	25.12.2021	178	72	28	24	10	Cloudy Sky / Calm
NAAQS, 2009		-	100	60	80	80	

*A. Anupama*

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: CHOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
08.12.2021	3.2	56	60	BDL
23.12.2021	3.54	64	68	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

*R. Anupama*

Analysed by

*Deepanshu sahu*

Deepanshu sahu  
Authorised Signatory

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**NOISE LEVEL MONITORING DATA**

<b>CHP</b>		<b>CHON1</b>	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	11-12-2021	66.3	65.5
DEC'21	27-12-2021	66.4	65.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY HLP:</b>		<b>CHON2</b>	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	11-12-2021	42.4	42.6
DEC'21	27-12-2021	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

# MAHAKALI UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



DECEMBER 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/DEC-21/23	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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			

MANAGER OFFICE MAHAKALI UG   CMUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09.12.2021	10.12.2021	298	160	56	26	16	Cloudy / Calm
24.12.2021	25.12.2021	308	168	58	30	18	Cloudy / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

CRC SUBSTATION/ FILTER PLANT   CCRUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
10.12.2021	11.12.2021	268	176	60	36	17	Cloudy / Calm
25.12.2021	26.12.2021	302	182	62	38	20	Cloudy / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

JATWARA MILK SCHEME   CCRUA3(C.R.C-U/G)							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
10.12.2021	11.12.2021	268	186	56	38	19	Cloudy / Calm
25.12.2021	26.12.2021	275	188	60	40	22	Cloudy / Calm
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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09.12.2021	10.12.2021	182	90	36	22	10	Cloudy / Calm
24.12.2021	25.12.2021	191	92	40	24	12	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: CMUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
09.12.2021	7.7	24	36	BDL
24.12.2021	7.1	20	32	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

*R. Anupama*

Analysed by

*Deepanshu sahu*

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**NOISE LEVEL MONITORING DATA**

<b>FAN HOUSE: CMUN1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	11-12-2021	69.2	68.4
DEC'21	27-12-2021	69.3	42.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY(MAHAKALI): CMUN2</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	11-12-2021	42.4	41.6
DEC'21	27-12-2021	42.4	41.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

### MANA UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



DECEMBER 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/DEC-21/24	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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)
		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	
08.12.2021	09.12.2021	263	158	47	30	20	Cloudy / Calm
23.12.2021	24.12.2021	269	160	48	32	22	Cloudy / Calm
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)
		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	
08.12.2021	09.12.2021	296	176	56	33	21	Cloudy / Calm
23.12.2021	24.12.2021	304	184	60	36	23	Cloudy / Calm
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)
		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	
09.12.2021	10.12.2021	190	86	30	26	12	Cloudy / Calm
24.12.2021	25.12.2021	178	72	28	24	10	Cloudy / Calm
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)
		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	
08.12.2021	09.12.2021	152	80	43	32	19	Cloudy / Calm
23.12.2021	24.12.2021	158	81	44	33	18	Cloudy / Calm
		-	100	60	80	80	

*R. Anupama*

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: 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
08.12.2021	7.6	30	40	BDL
23.12.2021	7.02	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: CMUN1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
DEC'21	11-12-2021	69.3	68.5
DEC'21	27-12-2021	69.5	68.7
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY(HLP OC): CHON2</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
DEC'21	11-12-2021	42.4	42.6
DEC'21	27-12-2021	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

### NANDGAON UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



DECEMBER 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/DEC-21/25	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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 $\mu\text{g}/\text{m}^3$ )					
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09.12.2021	10.12.2021	285	178	56	40	22	Cloudy / Calm
24.12.2021	25.12.2021	290	181	60	41	24	Cloudy / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SUBSTATION MANA INCLINE		CMUA2					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08.12.2021	09.12.2021	296	176	56	33	21	Cloudy / Calm
23.12.2021	24.12.2021	304	184	60	36	23	Cloudy / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

MANA VILLAGE		CMUA4					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08.12.2021	09.12.2021	152	80	43	32	19	Cloudy / Calm
23.12.2021	24.12.2021	158	81	44	33	18	Cloudy / Calm
NAAQS, 2009		-	100	60	80	80	

COLONY (NANDGAON)		CNUA4					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09.12.2021	10.12.2021	190	86	30	26	12	Cloudy / Calm
24.12.2021	25.12.2021	178	72	28	24	10	Cloudy / Calm
NAAQS, 2009		-	100	60	80	80	

*R. Anupama*

Analysed by

*Deepanshu sahu*

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

MINE WATER DISCHARGE: CNUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
09.12.2021	7.8	28	40	BDL
24.12.2021	7.2	36	48	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

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**NOISE LEVEL MONITORING DATA**

<b>FAN HOUSE:</b>		<b>CNUN1</b>	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
DEC'21	11-12-2021	69.5	68.7
DEC'21	27-12-2021	69.4	69.6
<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)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
DEC'21	11-12-2021	42.4	42.6
DEC'21	27-12-2021	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

### PADMAPUR OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



DECEMBER 2021

#### Environment Laboratory


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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/DEC-21/26	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
11.12.2021	12.12.2021	258	149	58	46	22	Cloudy Sky / Calm
26.12.2021	27.12.2021	251	152	60	38	20	Cloudy Sky / Calm
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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
11.12.2021	12.12.2021	169	86	38	26	12	Cloudy Sky / Calm
26.12.2021	27.12.2021	184	64	40	27	13	Cloudy Sky / Calm
NAAQS, 2009		-	100	60	80	80	

KITADI VILLAGE CPOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
11.12.2021	12.12.2021	178	84	39	23	11	Cloudy Sky / Calm
26.12.2021	27.12.2021	183	67	41	28	14	Cloudy Sky / Calm
NAAQS, 2009		-	100	60	80	80	

VICHODA RAYATWARI VILLAGE CPOA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
11.12.2021	12.12.2021	150	56	34	24	10	Cloudy Sky / Calm
26.12.2021	27.12.2021	161	59	33	25	11	Cloudy Sky / Calm
NAAQS, 2009		-	100	60	80	80	

*R. Anupama*

Analysed by

*Deepanshu sahu*

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

MINE WATER DISCHARGE 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
11.12.2021	7.5	28	36	BDL
26.12.2021	7.4	32	44	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
11.12.2021	7.6	20	32	BDL
26.12.2021	7.5	28	36	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

*R. Anupama*

Analysed by

*Deepanshu sahu*

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**NOISE LEVEL MONITORING DATA**

		<b>CHP: CPON1</b>	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
DEC'21	11-12-2021	67.4	66.6
DEC'21	27-12-2021	67.3	66.6
<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)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
DEC'21	11-12-2021	42.4	41.7
DEC'21	27-12-2021	42.4	41.7
<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



DECEMBER 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/DEC-21/50	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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>	
12.12.2021	13.12.2021	240	156	45	23	11	Clear Sky / Calm
27.12.2021	28.12.2021	210	143	43	21	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>	

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>	
13.12.2021	14.12.2021	232	178	41	19	BDL	Clear Sky / Calm
28.12.2021	29.12.2021	230	161	42	20	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>	

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>	
13.12.2021	14.12.2021	132	62	26	15	BDL	Clear Sky / Calm
28.12.2021	29.12.2021	124	65	23	14	BDL	Clear Sky / Calm
NAAQS, 2009		-	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	

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>	
13.12.2021	14.12.2021	165	89	34	17	BDL	Clear Sky / Calm
28.12.2021	29.12.2021	165	76	39	18	BDL	Clear Sky / Calm
NAAQS, 2009		-	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	



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**NOISE LEVEL MONITORING DATA**

<b>MANAGER OFFICE:</b>		<b>MJON1</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
DEC'21	10.12.2021	45.2	43.7
DEC'21	28.12.2021	45.9	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</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
DEC'21	10.12.2021	45.9	44.4
DEC'21	28.12.2021	45.6	43.8
<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



DECEMBER 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>	
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TEST REPORT NO.	RIN/TR/DEC-21/52	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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>	
05.12.2021	06.12.2021	220	147	36	16	BDL	Clear Sky / Calm
20.12.2021	21.12.2021	265	175	35	26	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>	


DATE(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>	
04.12.2021	05.12.2021	254	176	49	21	BDL	Clear Sky / Calm
19.12.2021	20.12.2021	210	123	46	18	10	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>	

DATE(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>	
05.12.2021	06.12.2021	156	80	32	19	BDL	Clear Sky / Calm
20.12.2021	21.12.2021	145	76	30	17	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>	
04.12.2021	05.12.2021	112	67	28	14	BDL	Clear Sky / Calm
05.12.2021	06.12.2021	125	76	27	17	BDL	Clear Sky / Calm
13.12.2021	14.12.2021	110	61	23	20	BDL	Clear Sky / Calm
15.12.2021	16.12.2021	134	73	25	15	BDL	Clear Sky / Calm
19.12.2021	20.12.2021	124	76	24	15	BDL	Cloudy Sky / Calm
20.12.2021	21.12.2021	120	67	21	12	BDL	Clear Sky / Calm
28.12.2021	29.12.2021	142	69	35	17	BDL	Clear Sky / Calm
29.12.2021	30.12.2021	121	60	27	14	BDL	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: 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
13.12.2021	7.75	28	36	BDL
28.12.2021	8.36	28	44	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
13.12.2021	7.94	22	52	BDL
28.12.2021	8.27	20	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>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
DEC'21	10-12-2021	50.7	47.8
DEC'21	28-12-2021	49.7	46.4
<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
DEC'21	10-12-2021	45.4	43.8
DEC'21	28-12-2021	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 UG TO OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



DECEMBER 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/DEC-21/51	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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		

DATE(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>	
04.12.2021	05.12.2021	254	176	49	21	BDL	Clear Sky / Calm
19.12.2021	20.12.2021	210	123	46	18	10	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>	
04.12.2021	05.12.2021	254	182	44	25	12	Clear Sky / Calm
19.12.2021	20.12.2021	240	165	45	17	11	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>	
04.12.2021	05.12.2021	210	143	39	18	BDL	Clear Sky / Calm
19.12.2021	20.12.2021	231	148	41	23	11	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>	
05.12.2021	06.12.2021	108	60	23	12	BDL	Clear Sky / Calm
20.12.2021	21.12.2021	112	59	24	15	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: 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
04.12.2021	7.58	30	28	BDL
19.12.2021	7.43	32	40	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

ETP: MMUW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
04.12.2021	7.39	24	32	BDL
19.12.2021	7.56	28	32	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

PIT OFFICE:		MMUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	10-12-2021	53.1	52.7
DEC'21	28-12-2021	55.5	53.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY(MAJRI UG TO OC):		MMUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	10-12-2021	45.7	43.4
DEC'21	28-12-2021	45.4	43.8
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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## ENVIRONMENTAL MONITORING REPORT

### TELWASA OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



DECEMBER 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/DEC-21/53	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
12.12.2021	13.12.2021	243	169	46	26	BDL	Clear Sky / Calm
27.12.2021	28.12.2021	210	143	47	24	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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
12.12.2021	13.12.2021	260	187	48	29	12	Clear Sky / Calm
27.12.2021	28.12.2021	270	173	45	26	11	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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
12.12.2021	13.12.2021	112	58	21	13	BDL	Clear Sky / Calm
27.12.2021	28.12.2021	105	54	20	12	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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
13.12.2021	14.12.2021	132	62	26	15	BDL	Clear Sky / Calm
28.12.2021	29.12.2021	124	65	23	14	BDL	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	



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

DETP DISCHARGE: MTOW1		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS (in mg/l)	BOD(in mg/l)
DETECTION LIMIT	10	2
11.12.2021	28	12.6
25.12.2021	26	13.1
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	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	10-12-2021	45.4	42.9
DEC'21	28-12-2021	45.8	44.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

EKTA NAGAR COLONY:		MTON3	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	10-12-2021	45.9	44.4
DEC'21	28-12-2021	45.6	43.8
<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



DECEMBER 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/DEC-21/54	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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			

PIT OFFICE   MYOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
14.12.2021	15.12.2021	286	196	35	25	BDL	Clear Sky / Calm
29.12.2021	30.12.2021	257	178	43	19	BDL	Clear Sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	60	120	120	

PENZURNI VILLAGE   MYOA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
14.12.2021	15.12.2021	120	78	29	17	12	Clear Sky / Calm
29.12.2021	30.12.2021	134	76	32	15	BDL	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	

ASHTI VILLAGE   MYOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
14.12.2021	15.12.2021	145	68	32	20	BDL	Clear Sky / Calm
29.12.2021	30.12.2021	140	79	36	20	BDL	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	

DANDGAON VILLAGE   MYOA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
11.12.2021	12.12.2021	98	56	23	14	BDL	Clear Sky / Calm
26.12.2021	27.12.2021	112	58	22	17	BDL	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	

HIWRA MAJRA VILLAGE   MYOA5							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
11.12.2021	12.12.2021	106	62	25	14	BDL	Clear Sky / Calm
26.12.2021	27.12.2021	145	65	29	19	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: 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
13.12.2021	7.75	26	36	BDL
28.12.2021	7.79	30	44	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
13.12.2021	7.79	30	28	BDL
28.12.2021	7.82	26	32	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

ETP : MYOW3				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
13.12.2021	8.05	24	44	BDL
29.12.2021	8.25	26	28	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt.	5.5 - 9.0	100	250	10

STP(DOMESTIC EFFLUENT)TREATED: : MYOW4		
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS	
	TSS (in mg/l)	BOD(in mg/l)
DETECTION LIMIT	10	2
13.12.2021	26	16.5
29.12.2021	28	14.3
GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS GSR 801E EPA 1993	100	30



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**NOISE LEVEL MONITORING DATA**

PIT OFFICE		MYON1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
DEC'21	10-12-2021	48.4	46.2
DEC'21	28-12-2021	49.7	46.4
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



DECEMBER 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/DEC-21/1	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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>	
02.12.2021	03.12.2021	294	178	56	23	12	Cloudy Sky / Calm
17.12.2021	18.12.2021	273	162	51	21	11	Cloudy 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>	
02.12.2021	03.12.2021	249	78	51	24	13	Cloudy Sky / Calm
17.12.2021	18.12.2021	235	71	46	22	10	Cloudy 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>	
01.12.2021	02.12.2021	168	79	39	24	12	Cloudy Sky / Calm
16.12.2021	17.12.2021	175	72	34	22	11	Cloudy 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>	
01.12.2021	02.12.2021	158	69	28	17	BDL	Cloudy Sky / Calm
16.12.2021	17.12.2021	162	74	35	19	BDL	Cloudy 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
DEC'21	02-12-2021	69.5	68.7
DEC'21	17-12-2021	69.2	68.4
<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
DEC'21	02-12-2021	54.2	53.4
DEC'21	17-12-2021	54.2	53.5
<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
DEC'21	02-12-2021	42.5	41.7
DEC'21	17-12-2021	42.5	41.6
<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



DECEMBER 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/DEC-21/2	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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>	
01.12.2021	02.12.2021	318	145	56	26	13	Cloudy/lightbreeze
17.12.2021	18.12.2021	296	138	52	23	11	Clear/lightbreeze
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>	
01.12.2021	02.12.2021	153	74	38	18	<10	Cloudy/lightbreeze
17.12.2021	18.12.2021	141	68	32	16	<10	Clear/lightbreeze
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>	
01.12.2021	02.12.2021	137	56	42	17	<10	Cloudy/lightbreeze
17.12.2021	18.12.2021	125	51	38	15	<10	Clear/lightbreeze
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>	
01.12.2021	02.12.2021	129	64	36	17	BDL	Cloudy/lightbreeze
17.12.2021	18.12.2021	138	58	29	19	BDL	Clear/lightbreeze
NAAQS, 2009		-	100	60	80	80	



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

MINE WATER DISCHARGE: 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
01.12.2021	7.72	18	52	BDL
17.12.2021	7.80	24	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>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>
DEC'21	02-12-2021	54.2	53.6
DEC'21	17-12-2021	55.2	54.5
<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



DECEMBER 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/DEC-21/3	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
02.12.2021	03.12.2021	325	186	59	26	14	CLOUDY / Lightbreeze
18.12.2021	19.12.2021	306	174	52	24	12	CLEAR / Lightbreeze
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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
02.12.2021	03.12.2021	149	76	35	16	<10	CLOUDY / Lightbreeze
18.12.2021	19.12.2021	135	65	31	14	<10	CLEAR / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

GUEST HOUSE/FILTER PLANT NGOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
02.12.2021	03.12.2021	174	85	49	22	12	CLOUDY / Lightbreeze
18.12.2021	19.12.2021	163	76	41	20	11	CLEAR / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

GHATROHNA VILLAGE NGOA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
02.12.2021	03.12.2021	138	71	36	16	BDL	CLOUDY / Lightbreeze
18.12.2021	19.12.2021	129	66	31	14	BDL	CLEAR / Lightbreeze
NAAQS, 2009		-	100	60	80	80	



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

MINE WATER DISCHARGE 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
02.12.2021	7.66	36	80	BDL
18.12.2021	7.59	42	108	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
02.12.2021	7.61	14	36	BDL
18.12.2021	7.63	16	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>CHP</b>		<b>NGON1</b>	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	02.12.2021	67.3	66.5
DEC'21	17.12.2021	66.3	65.6
<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	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	02.12.2021	42.5	42.7
DEC'21	17.12.2021	42.2	41.4
<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	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	02.12.2021	42.3	41.6
DEC'21	17.12.2021	42.5	41.7
<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	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	02.12.2021	42.4	41.7
DEC'21	17.12.2021	42.4	42.6
<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



DECEMBER 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
TEST REPORT NO.	RIN/TR/DEC-21/4	DATE OF ISSUE	15.01.2022	
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR			
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021			
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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 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>	
01.12.2021	02.12.2021	279	162	51	23	13	Clear sky/Windy
16.12.2021	17.12.2021	264	150	48	21	11	Clear sky /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 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>	
01.12.2021	02.12.2021	286	149	50	24	12	Clear sky/Windy
16.12.2021	17.12.2021	262	132	45	22	11	Clear sky /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 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>	
02.12.2021	03.12.2021	194	81	45	19	11	Clear sky/Windy
17.12.2021	18.12.2021	172	74	39	17	BDL	Clear sky /Calm
NAAQS, 2009		-	100	60	80	80	

G.P. OFFICE KANDRI VILLAGE NKCA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in 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>	
02.12.2021	03.12.2021	126	65	38	14	BDL	Clear sky/Windy
17.12.2021	18.12.2021	120	59	32	12	BDL	Clear sky /Calm
NAAQS, 2009		-	100	60	80	80	

  
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 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
01.12.2021	7.61	18	48	BDL
17.12.2021	7.68	22	56	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



Analysed by


Deepanshu sahu  
Authorised Signatory

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**NOISE LEVEL MONITORING DATA**

<b>PROJECT OFFICE: NION1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	02-12-2021	55.3	54.6
DEC'21	17-12-2021	54.2	53.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

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## ENVIRONMENTAL MONITORING REPORT

# KAMPTEE DEEP OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



DECEMBER 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/DEC-21/5	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
02.12.2021	03.12.2021	295	176	49	24	12	Clear sky/Windy
17.12.2021	18.12.2021	273	164	42	22	11	Clear sky/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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
01.12.2021	02.12.2021	146	72	28	14	BDL	Clear sky/Windy
16.12.2021	17.12.2021	132	65	31	12	BDL	Clear sky/Calm
NAAQS, 2009		-	100	60	80	80	

COLONY WATER TREATMENT PLANT NKCA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
02.12.2021	03.12.2021	194	81	45	19	11	Clear sky/Windy
17.12.2021	18.12.2021	172	74	39	17	BDL	Clear sky/Calm
NAAQS, 2009		-	100	60	80	80	

G.P. OFFICE KANDRI VILLAGE NKCA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
02.12.2021	03.12.2021	126	65	38	14	BDL	Clear sky/Windy
17.12.2021	18.12.2021	120	59	32	12	BDL	Clear sky/Calm
NAAQS, 2009		-	100	60	80	80	



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 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
02.12.2021	7.46	36	92	BDL
17.12.2021	7.56	38	104	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>CHP: NKC1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	02-12-2021	66.5	65.6
DEC'21	17-12-2021	67.4	66.7
<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
DEC'21	02-12-2021	42.5	41.6
DEC'21	17-12-2021	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

# PATANSAONGI UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



DECEMBER 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/DEC-21/6	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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		

DATE(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>	
01.12.2021	02.12.2021	326	214	58	26	14	Clear Sky / Calm
16.12.2021	17.12.2021	309	205	52	24	12	Clear Sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

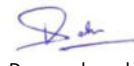
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
01.12.2021	02.12.2021	185	79	48	19	12	Clear Sky / Calm
16.12.2021	17.12.2021	172	73	42	17	BDL	Clear 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>	
01.12.2021	02.12.2021	213	84	51	24	13	Clear Sky / Calm
16.12.2021	17.12.2021	204	81	46	21	11	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>	
01.12.2021	02.12.2021	158	74	38	14	BDL	Clear Sky / Calm
16.12.2021	17.12.2021	146	69	34	16	BDL	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 DISCHARGE: NPTUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
<b>DETECTION LIMIT</b>	<b>2</b>	<b>10</b>	<b>4</b>	<b>2</b>
01.12.2021	8.25	12	36	BDL
16.12.2021	7.63	18	40	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>



Analysed by


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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
DEC'21	02-12-2021	66.4	65.6	
DEC'21	17-12-2021	66.4	65.6	
<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
DEC'21	02-12-2021	42.2	41.5	
DEC'21	17-12-2021	42.4	41.6	
<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



DECEMBER 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/DEC-21/7	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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>	
02.12.2021	03.12.2021	346	204	68	26	14	Clear sky / Calm
17.12.2021	18.12.2021	324	196	63	24	12	Clear sky / 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>	
02.12.2021	03.12.2021	298	185	56	23	BDL	Clear sky / Calm
17.12.2021	18.12.2021	275	169	52	21	BDL	Clear sky / 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>	
02.12.2021	03.12.2021	183	78	36	24	12	Clear sky / Calm
17.12.2021	18.12.2021	175	72	34	22	11	Clear sky / 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>	
02.12.2021	03.12.2021	149	71	30	20	BDL	Clear sky / Calm
17.12.2021	18.12.2021	136	68	28	18	BDL	Clear sky / Calm
NAAQS, 2009		-	100	60	80	80	



Analysed by



Deepanshu sahu  
Authorised Signatory

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**NOISE LEVEL MONITORING DATA**

FAN HOUSE:		NPUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
DEC'21	02-12-2021	69.2	68.4
DEC'21	17-12-2021	61.3	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



DECEMBER 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/DEC-21/8	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
01.12.2021	02.12.2021	294	185	54	26	14	Cloudy Sky / Calm
16.12.2021	17.12.2021	275	173	49	24	12	Cloudy Sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

C.M OFFICE-SAONER-II UG NSNUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
01.12.2021	02.12.2021	281	179	53	25	13	Cloudy Sky / Calm
16.12.2021	17.12.2021	264	168	47	23	11	Cloudy Sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY WATER FILTER PLANT NSNU3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
01.12.2021	02.12.2021	168	79	39	24	12	Cloudy Sky / Calm
16.12.2021	17.12.2021	175	72	34	22	11	Cloudy Sky / Calm
NAAQS, 2009		-	100	60	80	80	

KOTODI VILLAGE NSNU4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
01.12.2021	02.12.2021	158	69	28	17	BDL	Cloudy Sky / Calm
16.12.2021	17.12.2021	162	74	35	19	BDL	Cloudy Sky / Calm
NAAQS, 2009		-	100	60	80	80	



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

MINE 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
01.12.2021	7.71	14	44	BDL
16.12.2021	7.83	16	40	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
01.12.2021	8.02	12	36	BDL
16.12.2021	7.97	14	44	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
01.12.2021	7.89	16	40	BDL
16.12.2021	8.14	12	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-I: NSNUN1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	02-12-2021	69.4	68.6
DEC'21	17-12-2021	69.5	69.7
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>FAN HOUSE-II: NSNUN2</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	02-12-2021	69.5	68.7
DEC'21	17-12-2021	69.5	68.7
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>FAN HOUSE-III: NSNUN3</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	02-12-2021	69.2	68.5
DEC'21	17-12-2021	69.3	68.5
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY: NSNUN4</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	02-12-2021	42.5	41.7
DEC'21	17-12-2021	42.5	41.6
<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



DECEMBER 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/DEC-21/9	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
02.12.2021	03.12.2021	347	205	62	26	14	Clear/Calm
16.12.2021	17.12.2021	315	192	56	22	11	Clear/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

V.T.C. SILEWARA NSUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
02.12.2021	03.12.2021	296	189	54	24	13	Clear/Calm
16.12.2021	17.12.2021	268	175	48	22	11	Clear/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

MANDIR NEAR KANHAN RIVER NSUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
02.12.2021	03.12.2021	159	76	46	18	BDL	Clear/Calm
16.12.2021	17.12.2021	143	71	42	16	BDL	Clear/Calm
NAAQS, 2009		-	100	60	80	80	

CHANKAPUR PUMP HOUSE/ COLONY NSUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
02.12.2021	03.12.2021	146	68	40	17	BDL	Clear/Calm
16.12.2021	17.12.2021	132	72	36	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: 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
02.12.2021	8.14	14	32	BDL
16.12.2021	7.69	16	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
DEC'21	02-12-2021	69.3	68.5
DEC'21	17-12-2021	68.3	67.4
<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
DEC'21	02-12-2021	42.4	41.6
DEC'21	17-12-2021	42.2	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



DECEMBER 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/DEC-21/10	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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>	
01.12.2021	02.12.2021	295	167	59	24	13	Clear/Calm
17.12.2021	18.12.2021	272	146	53	22	11	Clear/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>	
01.12.2021	02.12.2021	176	74	52	20	BDL	Clear/Calm
17.12.2021	18.12.2021	152	68	47	18	BDL	Clear/Calm
NAAQS, 2009		-	100	60	80	80	

HINGNA VILLAGE NSOA3							
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>	
01.12.2021	02.12.2021	148	62	42	18	BDL	Clear/Calm
17.12.2021	18.12.2021	136	70	38	16	BDL	Clear/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>	
01.12.2021	02.12.2021	129	64	36	17	BDL	Clear/Calm
17.12.2021	18.12.2021	138	58	29	19	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: NSOW1		ANALYSIS RESULTS		
DATE OF SAMPLE COLLECTION	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
<b>DETECTION LIMIT</b>	<b>2</b>	<b>10</b>	<b>4</b>	<b>2</b>
01.12.2021	8.24	28	84	BDL
17.12.2021	7.93	32	60	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	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	02-12-2021	54.2	53.6
DEC'21	17-12-2021	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	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	02-12-2021	42.4	41.5
DEC'21	17-12-2021	42.2	41.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

<b>NEAR DRILING SITE: NSON3</b>			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	02-12-2021	57.3	56.5
DEC'21	17-12-2021	67.4	66.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>NEAR DOSING SITE: NSON4</b>			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	02-12-2021	56.2	55.4
DEC'21	17-12-2021	68.2	67.5
<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



DECEMBER 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/DEC-21/84	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
03.12.2021	04.12.2021	234	157	47	11	BDL	Clear Sky / Windy
19.12.2021	20.12.2021	247	166	52	10	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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
03.12.2021	04.12.2021	165	97	34	9	BDL	Clear Sky / Windy
19.12.2021	20.12.2021	152	92	38	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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
03.12.2021	04.12.2021	128	84	28	8	BDL	Clear Sky / Windy
19.12.2021	20.12.2021	134	88	37	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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
03.12.2021	04.12.2021	136	83	32	6	BDL	Clear Sky / Windy
19.12.2021	20.12.2021	142	78	34	8	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
03.12.2021	6.87	24	32	2.4
20.12.2021	7.42	28	40	2.6
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:</b>		<b>CWSN1</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
DEC'21	08-12-2021	46.4	44.9
DEC'21	25-12-2021	55.8	54.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY(CWS):</b>		<b>CWSN2</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
DEC'21	08-12-2021	44.7	43.8
DEC'21	25-12-2021	44.5	43.1
<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



DECEMBER 2021

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### 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/DEC-21/11	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
07.12.2021	08.12.2021	278	165	34	19	12	Clear Sky / Calm
17.12.2021	18.12.2021	253	146	25	23	BDL	Clear Sky / Calm
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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
07.12.2021	08.12.2021	265	154	37	18	12	Clear Sky / Calm
17.12.2021	18.12.2021	275	178	40	17	BDL	Clear Sky / Calm
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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
12.12.2021	13.12.2021	132	70	24	14	BDL	Clear Sky / Calm
23.12.2021	24.12.2021	146	72	28	16	BDL	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	

WELSAKARA VILLAGE UM30A4							
DATE(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>	
13.12.2021	14.12.2021	120	60	25	14	BDL	Clear Sky / Calm
24.12.2021	25.12.2021	110	56	37	14	10	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: UM3OW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
08.12.2021	7.33	28	28	BDL
18.12.2021	7.6	32	36	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

ETP: UM3OW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
08.12.2021	7.49	34	40	BDL
18.12.2021	7.6	36	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**

PIT OFFICE		UGON1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
DEC'21	11-12-2021	54.6	53.1
DEC'21	27-12-2021	53.8	52.6
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



DECEMBER 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/DEC-21/12	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
05.12.2021	06.12.2021	288	182	48	23	12	Clear Sky / Calm
16.12.2021	17.12.2021	265	146	41	22	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>	
05.12.2021	06.12.2021	140	69	27	15	BDL	Clear Sky /Lightbreeze
06.12.2021	07.12.2021	132	65	25	16	BDL	Clear Sky /Lightbreeze
12.12.2021	13.12.2021	126	65	26	13	BDL	Clear Sky /Lightbreeze
13.12.2021	14.12.2021	113	59	20	14	BDL	Clear Sky /Lightbreeze
16.12.2021	17.12.2021	143	73	24	12	BDL	Clear Sky /Lightbreeze
17.12.2021	18.12.2021	120	67	21	12	BDL	Clear Sky /Lightbreeze
23.12.2021	24.12.2021	139	74	30	15	BDL	Clear Sky /Lightbreeze
24.12.2021	25.12.2021	120	65	21	12	BDL	Clear Sky /Lightbreeze
NAAQS, 2009		-	100	60	80	80	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
05.12.2021	06.12.2021	135	74	26	14	BDL	Clear Sky /Lightbreeze
06.12.2021	07.12.2021	122	67	24	14	BDL	Clear Sky /Lightbreeze
12.12.2021	13.12.2021	112	65	23	12	BDL	Clear Sky /Lightbreeze
13.12.2021	14.12.2021	143	78	21	13	BDL	Clear Sky /Lightbreeze
16.12.2021	17.12.2021	123	65	28	15	BDL	Clear Sky /Lightbreeze
17.12.2021	18.12.2021	114	63	22	15	BDL	Clear Sky /Lightbreeze
23.12.2021	24.12.2021	123	65	31	18	BDL	Clear Sky /Lightbreeze
24.12.2021	25.12.2021	127	70	25	15	BDL	Clear Sky /Lightbreeze
NAAQS, 2009		-	100	60	80	80	

POLGAON VILLAGE		UGOA4					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) AND TIME (12 hr format) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					
FROM	TO	SPM 5	PM <sub>10</sub> 5	PM <sub>2.5</sub> 2	NO <sub>2</sub> 6	SO <sub>2</sub> 10	
05.12.2021	06.12.2021	125	62	22	15	BDL	Clear Sky /Lightbreeze
06.12.2021	07.12.2021	120	56	27	13	BDL	Clear Sky /Lightbreeze
12.12.2021	13.12.2021	138	60	26	15	BDL	Clear Sky /Lightbreeze
13.12.2021	14.12.2021	142	70	30	14	BDL	Clear Sky /Lightbreeze
16.12.2021	17.12.2021	112	59	24	16	BDL	Clear Sky /Lightbreeze
17.12.2021	18.12.2021	139	70	23	16	BDL	Clear Sky /Lightbreeze
23.12.2021	24.12.2021	145	76	26	12	BDL	Clear Sky /Lightbreeze
24.12.2021	25.12.2021	134	71	34	16	BDL	Clear Sky /Lightbreeze
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
09.12.2021	7.6	22	32	BDL
24.12.2021	7.5	34	52	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
09.12.2021	7.48	32	28	BDL
24.12.2021	7.8	36	40	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

PIT OFFICE: UGON1			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	11-12-2021	53.2	52.6
DEC'21	27-12-2021	54.5	53.8
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
DEC'21	11-12-2021	54.5	53.2
DEC'21	27-12-2021	53.3	52.4
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



DECEMBER 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>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/DEC-21/14	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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					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>	
05.12.2021	06.12.2021	265	154	42	19	BDL	Cloudy/Calm
20.12.2021	21.12.2021	267	176	46	29	BDL	Cloudy/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SAM OFFICE		UMOA2					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>	
05.12.2021	06.12.2021	278	170	46	20	12	Cloudy/Calm
20.12.2021	21.12.2021	220	156	43	22	BDL	Cloudy/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

KANWA VILLAGE		UMOA3					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>	
03.12.2021	04.12.2021	112	59	20	12	BDL	Cloudy/Calm
18.12.2021	19.12.2021	142	71	34	19	BDL	Cloudy/Calm
NAAQS, 2009		-	100	60	80	80	

NEAR PUMP HOUSE COLONY		UMOA4					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>	
03.12.2021	04.12.2021	123	69	23	16	10	Cloudy/Calm
18.12.2021	19.12.2021	156	82	36	16	BDL	Cloudy/Calm
NAAQS, 2009		-	100	60	80	80	



Analysed by


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**NOISE LEVEL MONITORING DATA**

<b>NEAR PIT OFFICE: UMON1</b>			
<b>MONTH</b>	<b>DATE OF SAMPLE</b>	<b>NOISE LEVEL IN dB(A)</b>	<b>NOISE LEVEL IN dB(A)</b>
	<b>COLLECTION</b>	<b>DAY TIME</b>	<b>DAY TIME</b>
	<b>DETECTION LIMIT</b>	<b>20</b>	<b>20</b>
DEC'21	11-12-2021	53.7	52.4
DEC'21	27-12-2021	52.9	51.2
<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



NOVEMBER 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/NOV-21/13	DATE OF ISSUE	22.12.2021
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		

PIT OFFICE   UM10A1							
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>	
07.11.2021	08.11.2021	275	175	46	32	10	Clear sky / Calm
20.11.2021	21.11.2021	285	186	43	37	13	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>	

KALMANA VILLAGE   UM10A2							
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>	
07.11.2021	08.11.2021	224	142	39	27	BDL	Clear sky / Calm
20.11.2021	21.11.2021	236	153	46	32	BDL	Clear sky / Calm
NAAQS, 2009		-	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	

SIRPUR VILLAGE   UM10A3							
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>	
13.11.2021	14.11.2021	112	65	28	14	BDL	Clear sky / Calm
20.11.2021	21.11.2021	122	72	30	12	BDL	Clear sky / Calm
NAAQS, 2009		-	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	

KHURSAPUR VILLAGE   UM10A4							
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>	
13.11.2021	14.11.2021	110	63	30	12	BDL	Clear sky / Calm
20.11.2021	21.11.2021	98	56	25	16	BDL	Clear sky / Calm
NAAQS, 2009		-	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	

AIR SAMPLE HEOTI VILLAGE   UM10A5							
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>	
13.11.2021	14.11.2021	166	90	38	17	BDL	Clear sky / Calm
20.11.2021	21.11.2021	154	86	34	12	BDL	Clear sky / 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)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: UM1OW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
13.11.2021	7.68	26	32	BDL
20.11.2021	7.55	28	40	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

ETP: UM1OW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
13.11.2021	7.88	30	44	BDL
20.11.2021	7.96	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**

PIT OFFICE:		UM10N1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
NOV'21	12.11.2021	55.1	54.4
NOV'21	26.11.2021	56.2	55.8
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

SIRPUR VILLAGE:		UM10N2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
NOV'21	12.11.2021	45.6	44.3
NOV'21	26.11.2021	46.3	45
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

HEOTI VILLAGE:		UM10N3	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
NOV'21	12.11.2021	44.2	43.9
NOV'21	26.11.2021	45.7	44.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45



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## ENVIRONMENTAL MONITORING REPORT

# MAKARDHOKRA-I OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



DECEMBER 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/DEC-21/13	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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>	
04.12.2021	05.12.2021	354	221	37	25	BDL	Clear sky/L. breeze
19.12.2021	20.12.2021	378	212	42	23	BDL	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 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>	
03.12.2021	04.12.2021	112	74	20	12	BDL	Clear sky/L. breeze
19.12.2021	20.12.2021	134	78	26	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>	
07.12.2021	08.12.2021	112	77	23	13	BDL	Clear sky/L. breeze
18.12.2021	19.12.2021	129	80	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>	
07.12.2021	08.12.2021	130	69	22	12	BDL	Clear sky/L. breeze
18.12.2021	19.12.2021	122	73	25	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>	
07.12.2021	08.12.2021	132	67	22	15	BDL	Clear sky/L. breeze
18.12.2021	19.12.2021	116	63	26	14	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)
SAMPLING METHOD	LSOP 5

MINE WATER DISCHARGE: UM1OW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
07-12-2021	7.52	30	36	BDL
18-12-2021	7.58	22	36	BDL
STANDARDS FOR COAL	5.5 - 9.0	100	250	10

ETP: UM1OW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
12.12.2021	7.35	36	44	BDL
18.12.2021	7.97	30	36	BDL
STANDARDS FOR COAL	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

PIT OFFICE: UM10N1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	11-12-2021	55.2	54.5
DEC'21	27-12-2021	54.9	53.7
NOISE POLLUTION (REGULATION AND		75	70

**SIRPUR VILLAGE**

PIT OFFICE: UM10N1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	11-12-2021	45.7	44.2
DEC'21	27-12-2021	46.2	45.1
NOISE POLLUTION (REGULATION AND		55	45

**HEOTI VILLAGE**

PIT OFFICE: UM10N2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	11-12-2021	44.9	43.8
DEC'21	27-12-2021	45.1	44.7
NOISE POLLUTION (REGULATION AND		55	45

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## ENVIRONMENTAL MONITORING REPORT

# MORPAR UG

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



DECEMBER 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/DEC-21/15	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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			

NEAR PIT OFFICE   UMUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
04.12.2021	05.12.2021	254	154	37	25	BDL	Cloudy/Calm
19.12.2021	20.12.2021	269	159	39	20	BDL	Cloudy/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

NEAR MAGAZINE BUILDING   UMUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
04.12.2021	05.12.2021	235	135	39	25	11	Cloudy/Calm
19.12.2021	20.12.2021	225	140	38	13	BDL	Cloudy/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY (MURPAR UG)   UMUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
04.12.2021	05.12.2021	145	75	28	12	BDL	Cloudy/Calm
19.12.2021	20.12.2021	136	76	20	17	BDL	Cloudy/Calm
NAAQS, 2009		-	100	60	80	80	

MORPAR VILLAGE   UMUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
04.12.2021	05.12.2021	136	67	23	12	BDL	Cloudy/Calm
19.12.2021	20.12.2021	102	59	22	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: 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
04.12.2021	7.66	26	28	BDL
19.12.2021	7.30	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**

<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>
DEC'21	04-12-2021	69.2	68.4
DEC'21	19-12-2021	69.4	68.6
<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>
DEC'21	04-12-2021	42.3	41.5
DEC'21	19-12-2021	42.5	41.7
<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



DECEMBER 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/DEC-21/16	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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   UJ0A1							
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>	
03.12.2021	04.12.2021	281	165	40	21	BDL	Cloudy/Calm
18.12.2021	19.12.2021	287	169	48	18	BDL	Cloudy/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		<b>600</b>	<b>300</b>	-	<b>120</b>	<b>120</b>	

NEAR WORKSHOP   UJ0A2							
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>	
03.12.2021	04.12.2021	234	143	38	20	BDL	Cloudy/Calm
18.12.2021	19.12.2021	220	123	39	22	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   UJ0A3							
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>	
03.12.2021	04.12.2021	112	59	20	12	BDL	Cloudy/Calm
18.12.2021	19.12.2021	142	71	34	19	BDL	Cloudy/Calm
NAAQS, 2009		-	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	

NEAR PUMP HOUSE COLONY   UJ0A4							
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>	
03.12.2021	04.12.2021	123	69	23	16	10	Cloudy/Calm
18.12.2021	19.12.2021	156	82	36	16	BDL	Cloudy/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: 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
03.12.2021	7.82	26	28	BDL
18.12.2021	7.82	26	36	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

ETP: UUOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
03.12.2021	7.38	30	44	BDL
18.12.2021	7.65	24	36	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
03.12.2021	24	12.6
18.12.2021	28	11.8
GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS GSR 801E EPA 1993	100	30



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**NOISE LEVEL MONITORING DATA**

CHP: <b>UUON1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME	NOISE LEVEL IN dB(A) NIGHT TIME
	DETECTION LIMIT	20	20
	DEC'21	11-12-2021	54.8
DEC'21	27-12-2021	55.9	54.6
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY: <b>UUON2</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A) DAY TIME	NOISE LEVEL IN dB(A) NIGHT TIME
	DETECTION LIMIT	20	20
	DEC'21	11-12-2021	45.3
DEC'21	27-12-2021	44.8	43.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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## ENVIRONMENTAL MONITORING REPORT

# GHUGUS OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



DECEMBER 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/DEC-21/ 36	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS A64:J685182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	WANI	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	GHUGUS OC		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

DATE(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>	
07-12-2021	08-12-2021	224	156	60	20	16	Clear Sky /Windy
22-12-2021	23-12-2021	236	166	64	22	18	Clear Sky /Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
07-12-2021	08-12-2021	240	166	68	26	18	Clear Sky /Windy
23-12-2021	24-12-2021	248	172	72	28	20	Clear Sky /Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
07-12-2021	08-12-2021	120	72	40	14	12	Clear Sky /Windy
23-12-2021	24-12-2021	114	66	36	12	10	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
07-12-2021	08-12-2021	116	60	32	12	10	Clear Sky /Windy
22-12-2021	23-12-2021	128	66	36	10	10	Clear Sky /Light Breeze
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
DEC'21	08-12-2021	64.9	63.1
DEC'21	25-12-2021	64.4	62.3
<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
DEC'21	08-12-2021	45.7	43.7
DEC'21	25-12-2021	44.8	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



DECEMBER 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/DEC-21/37	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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>	
05-12-2021	06-12-2021	260	176	70	24	20	Clear Sky/Windy
21-12-2021	22-12-2021	276	180	76	26	22	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>	
05-12-2021	06-12-2021	280	180	70	26	18	Clear Sky/Windy
21-12-2021	22-12-2021	274	186	66	20	18	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>	
05-12-2021	06-12-2021	128	74	40	16	10	Clear Sky/Windy
21-12-2021	22-12-2021	132	78	42	10	10	Clear Sky/Calm
NAAQS, 2009		-	100	60	80	80	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
06-12-2021	07-12-2021	120	62	36	16	12	Clear Sky/Windy
22-12-2021	23-12-2021	128	66	38	12	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: WKOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
06-12-2021	7.73	28	44	BDL
21-12-2021	8.23	38	64	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>DETECTION LIMIT</b>	<b>DAY TIME</b>	<b>NIGHT TIME</b>
	DEC'21	08-12-2021	47.5
DEC'21	25-12-2021	55.8	53.6
<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>DETECTION LIMIT</b>	<b>DAY TIME</b>	<b>NIGHT TIME</b>
	DEC'21	08-12-2021	45.7
DEC'21	25-12-2021	43.6	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



DECEMBER 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/DEC-21/38	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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 WMOA1 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>	
06-12-2021	07-12-2021	240	154	66	20	18	Clear Sky/Windy
22-12-2021	23-12-2021	234	150	58	14	12	Clear Sky/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

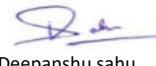
DATE(dd:mm:yy) OF SAMPLING		SAM OFFICE WMOA2 PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
05-12-2021	06-12-2021	280	180	70	26	18	Clear Sky/Windy
21-12-2021	22-12-2021	274	186	66	20	18	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 WMOA3 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>	
06-12-2021	07-12-2021	120	62	36	16	12	Clear Sky/Windy
22-12-2021	23-12-2021	128	66	38	12	10	Clear Sky/Calm
NAAQS, 2009		-	100	60	80	80	

DATE(dd:mm:yy) OF SAMPLING		TUBEWELL NEAR SAKHARA VILLAGE WMOA4 PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
05-12-2021	06-12-2021	116	60	32	16	12	Clear Sky/Windy
21-12-2021	22-12-2021	124	64	36	12	10	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
06-12-2021	7.44	60	104	BDL
22-12-2021	7.79	24	44	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

ETP DISCHARGE: WMOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
06-12-2021	7.48	20	28	BDL
22-12-2021	7.48	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>CHP: WMON1</b>			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	08-12-2021	65.9	64.7
DEC'21	25-12-2021	64.7	63.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY(MUNGOLI): WMON2</b>			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	08-12-2021	45.7	43.8
DEC'21	25-12-2021	43.6	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



DECEMBER 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/DEC-21/39	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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			

DATE(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>	
08-12-2021	09-12-2021	286	170	72	24	18	Clear Sky/Windy
24-12-2021	25-12-2021	260	158	68	20	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>	
09-12-2021	10-12-2021	240	160	58	20	16	Clear Sky/Windy
24-12-2021	25-12-2021	226	148	60	16	12	Clear Sky/Calm
STANDARDS FOR COAL MINE, GSR 742(E),		600	300	60	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>	
08-12-2021	09-12-2021	118	58	32	14	12	Clear Sky/Windy
23-12-2021	24-12-2021	110	54	36	10	10	Clear Sky/Calm
NAAQS, 2009		-	100	60	80	80	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08-12-2021	09-12-2021	114	62	32	16	12	Clear Sky/Windy
23-12-2021	24-12-2021	118	66	34	10	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: 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>
08-12-2021	4.70	56	16	BDL
23-12-2021	3.79	60	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**

<b>CHP: WNGON1</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>	<b>20</b>	<b>20</b>
DEC'21	08-12-2021	60.5	59.2
DEC'21	25-12-2021	63.9	62.7
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY(GHUGUS): WNGON1</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>	<b>20</b>	<b>20</b>
DEC'21	08-12-2021	45.7	43.7
DEC'21	25-12-2021	44.8	43.5
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

# NILJAI DEEP OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



DECEMBER 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/DEC-21/40	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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		

DATE(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>	
09-12-2021	10-12-2021	236	144	60	22	18	Clear Sky/Windy
24-12-2021	25-12-2021	220	136	56	16	12	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>	
09-12-2021	10-12-2021	240	160	58	20	16	Clear Sky/Windy
24-12-2021	25-12-2021	226	148	60	16	12	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>	
09-12-2021	10-12-2021	122	60	32	12	10	Clear Sky/Windy
24-12-2021	25-12-2021	126	64	34	10	10	Clear Sky/Calm
NAAQS, 2009		-	100	60	80	80	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09-12-2021	10-12-2021	118	70	40	20	16	Clear Sky/Windy
25-12-2021	26-12-2021	126	72	42	14	12	Clear Sky/Calm
NAAQS, 2009		-	100	60	80	80	



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

MINE WATER DISCHARGE: 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
09-12-2021	7.29 30 48 BDL
24-12-2021	7.61 18 24 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
09-12-2021	7.53 24 40 BDL
24-12-2021	7.67 30 52 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
09-12-2021	56 16
24-12-2021	60 18
GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS	100 30



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**NOISE LEVEL MONITORING DATA**

CHP-NILJAI:		WNON1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	08-12-2021	65.7	63.6
DEC'21	25-12-2021	64.4	63.1
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

CHP-NILJAI(S):		WNON2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	08-12-2021	65.4	63.7
DEC'21	25-12-2021	63.9	62.5
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY(NILJAI):		WNON3	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	08-12-2021	45.7	42.9
DEC'21	25-12-2021	44.1	42.7
<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



DECEMBER 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/DEC-21/41	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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 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	
04-12-2021	05-12-2021	246	146	60	24	20	Clear Sky/Windy
20-12-2021	21-12-2021	260	166	66	22	18	Clear Sky/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>	

NEAR MINE   WPOA2							
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	
04-12-2021	05-12-2021	296	188	74	26	18	Clear Sky/Windy
20-12-2021	21-12-2021	310	194	78	22	14	Clear Sky/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>	

VIRUR VILLAGE   WPOA3							
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	
04-12-2021	05-12-2021	116	58	32	12	10	Clear Sky/Windy
20-12-2021	21-12-2021	124	64	36	10	10	Clear Sky/Lightbreeze
NAAQS, 2009		-	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	

GADEGAON VILLAGE   WPOA4							
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	
04-12-2021	05-12-2021	118	70	36	16	12	Clear Sky/Windy
20-12-2021	21-12-2021	124	74	40	12	10	Clear Sky/Lightbreeze
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: 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
04-12-2021	7.34	24	36	BDL
21-12-2021	7.55	20	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: WPON1</b>			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
DEC'21	08-12-2021	48.6	46.5
DEC'21	25-12-2021	55.6	54.3
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

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## ENVIRONMENTAL MONITORING REPORT

# GHONSA OC

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



DECEMBER 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/DEC-21/43	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09-12-2021	10-12-2021	5	5	2	6	10	Clear Sky / Calm
24-12-2021	25-12-2021	190	110	60	20	18	Clear Sky / Calm
24-12-2021	25-12-2021	198	114	64	22	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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09-12-2021	10-12-2021	5	5	2	6	10	Clear Sky / Calm
24-12-2021	25-12-2021	250	130	60	18	14	Clear Sky / Calm
24-12-2021	25-12-2021	266	142	66	20	18	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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09-12-2021	10-12-2021	5	5	2	6	10	Clear Sky / Calm
24-12-2021	25-12-2021	116	76	36	16	12	Clear Sky / Calm
24-12-2021	25-12-2021	126	78	40	12	10	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	

GUEST HOUSE/ COLONY   WNKUA3							
DATE(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>	
09-12-2021	10-12-2021	5	5	2	6	10	Clear Sky / Calm
24-12-2021	25-12-2021	110	60	32	18	16	Clear Sky / Calm
24-12-2021	25-12-2021	114	66	38	10	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: WNGOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
08-12-2021	7.55	22	28	BDL
23-12-2021	7.69	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: WNGON1</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>
DEC'21	09-12-2021	50.7	48.6
DEC'21	27-12-2021	51.7	48.2
<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



DECEMBER 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/DEC-21/42	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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 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>	
10-12-2021	11-12-2021	206	116	64	22	18	Clear Sky / Calm
26-12-2021	27-12-2021	212	124	68	24	16	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 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>	
11-12-2021	12-12-2021	116	76	36	16	12	Clear Sky / Calm
27-12-2021	28-12-2021	120	78	40	10	10	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	

BHALAR TOWNSHIP   WNUOA3							
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>	
10-12-2021	11-12-2021	122	66	32	16	12	Clear Sky / Windy
25-12-2021	26-12-2021	130	74	34	10	10	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	

UKNI VILLAGE   WNUOA4							
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>	
10-12-2021	11-12-2021	116	64	36	16	12	Clear Sky / Windy
25-12-2021	26-12-2021	128	68	40	12	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
10-12-2021	7.34	28	48	BDL
27-12-2021	7.21	32	56	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
10-12-2021	7.64	36	56	BDL
27-12-2021	7.76	22	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: WNJON1</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>
DEC'21	08-12-2021	49.7	46.4
DEC'21	25-12-2021	50.7	47.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>BHALAR COLONY: WNJON2</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>
DEC'21	08-12-2021	45.2	43.8
DEC'21	25-12-2021	45.7	43.8
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

# KOLARPIMPRI OC

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



DECEMBER 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/DEC-21/44	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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   WNKO1							
DATE(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>	
07-12-2021	08-12-2021	196	126	60	24	18	Clear /Calm
22-12-2021	23-12-2021	210	132	66	22	16	Clear /Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

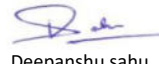
REST SHELTER   WNKO2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
10-12-2021	11-12-2021	176	110	60	14	10	Clear /Calm
25-12-2021	26-12-2021	182	116	64	10	10	Clear /Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

PIMPRI VILLAGE   WNKO3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
06-12-2021	07-12-2021	106	64	34	18	14	Clear /Calm
21-12-2021	22-12-2021	112	66	38	14	10	Clear /Calm
NAAQS, 2009		-	100	60	80	80	

WATER FILTER FLANT PRAGATI NAGAR   WNPO3							
DATE(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>	
11-12-2021	12-12-2021	108	70	36	14	12	Clear Sky/ L.Breeze
27-12-2021	28-12-2021	124	76	40	12	10	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
09-12-2021	7.44	26	40	BDL
24-12-2021	7.52	40	68	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

CHP:		WNKON1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
DEC'21	08-12-2021	62.2	59.4
DEC'21	25-12-2021	62.7	60.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY PRAGATI NAGAR:		WNPON2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
DEC'21	08-12-2021	45.2	44.4
DEC'21	25-12-2021	45.2	44.2
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



DECEMBER 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>	
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TEST REPORT NO.	RIN/TR/ DEC-21/45	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09-12-2021	10-12-2021	5	5	2	6	10	Clear Sky / Calm
24-12-2021	25-12-2021	244	160	64	24	16	Clear Sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

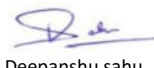
SAM OFFICE/ CANTEEN   WNKUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09-12-2021	10-12-2021	5	5	2	6	10	Clear Sky / Calm
24-12-2021	25-12-2021	250	130	60	18	14	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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09-12-2021	10-12-2021	5	5	2	6	10	Clear Sky / Calm
24-12-2021	25-12-2021	110	60	32	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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09-12-2021	10-12-2021	5	5	2	6	10	Clear Sky / Calm
24-12-2021	25-12-2021	116	76	36	16	12	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
DEC'21	09-12-2021	45.7	43.8
DEC'21	27-12-2021	45.4	44.6
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
DEC'21	09-12-2021	45.2	42.9
DEC'21	27-12-2021	45.1	42.9
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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## ENVIRONMENTAL MONITORING REPORT

### PIMPALGAON OC

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034




DECEMBER 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/DEC-21/46	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
11-12-2021	12-12-2021	256	142	66	26	20	Clear Sky/ L.Breeze
27-12-2021	28-12-2021	270	156	74	28	22	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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
11-12-2021	12-12-2021	254	160	60	24	20	Clear Sky/ L.Breeze
27-12-2021	28-12-2021	262	164	64	22	14	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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
11-12-2021	12-12-2021	108	70	36	14	12	Clear Sky/ L.Breeze
27-12-2021	28-12-2021	124	76	40	12	10	Clear Sky/ Calm
NAAQS, 2009		-	100	60	80	80	

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>	
11-12-2021	12-12-2021	116	76	36	16	12	Clear Sky / Calm
27-12-2021	28-12-2021	120	78	40	10	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
DEC'21	08-12-2021	50.7	46.2
DEC'21	25-12-2021	60.4	59.1
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
DEC'21	08-12-2021	45.2	44.4
DEC'21	25-12-2021	45.2	44.2
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




DECEMBER 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/DEC-21/47	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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							
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>	
08-12-2021	09-12-2021	266	166	70	28	16	Clear Sky / Calm
23-12-2021	24-12-2021	278	172	74	20	18	Clear Sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SAM OFFICE   WNRUA2							
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>	
08-12-2021	09-12-2021	252	148	60	24	20	Clear Sky / Calm
23-12-2021	24-12-2021	266	152	64	26	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							
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>	
08-12-2021	09-12-2021	256	156	70	22	16	Clear Sky / Calm
23-12-2021	24-12-2021	238	140	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							
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>	
08-12-2021	09-12-2021	108	60	32	16	12	Clear Sky / Calm
23-12-2021	24-12-2021	112	64	30	10	10	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	



Analysed by



Deepanshu sahu

Authorised Signatory

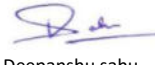
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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP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

MINE WATER DISCHARGE: 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
07-12-2021	7.44	18	24	BDL
22-12-2021	7.96	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:</b>		<b>WNRUN1</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>
DEC'21	09-12-2021	68.7	65.9
DEC'21	27-12-2021	66.4	64.9
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY RAJUR:</b>		<b>WNRUN2</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>
DEC'21	09-12-2021	45.6	43.8
DEC'21	27-12-2021	45.9	44.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

### UKNI DEEP OC

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034




DECEMBER 2021

Environment Laboratory

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REGIONAL INSTITUTE-IV, KASTURBA NAGAR,  
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/DEC-21/48	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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			

DATE(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>	
10-12-2021	11-12-2021	280	160	66	20	18	Clear Sky / Windy
25-12-2021	26-12-2021	264	154	72	16	14	Clear Sky / Calm
<b>STANDARDS FOR COAL MINE, GSR 742(E), dt. 25<sup>TH</sup> September 2000</b>		<b>600</b>	<b>300</b>	<b>-</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>	
10-12-2021	11-12-2021	122	66	32	16	12	Clear Sky / Windy
25-12-2021	26-12-2021	130	74	34	10	10	Clear Sky / Calm
<b>NAAQS, 2009</b>		<b>-</b>	<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>	
10-12-2021	11-12-2021	116	64	36	16	12	Clear Sky / Windy
25-12-2021	26-12-2021	128	68	40	12	10	Clear Sky / Calm
<b>NAAQS, 2009</b>		<b>-</b>	<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>	
06-12-2021	07-12-2021	106	64	34	18	14	Clear /Calm
21-12-2021	22-12-2021	112	66	38	14	10	Clear /Calm
<b>NAAQS, 2009</b>		<b>-</b>	<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: WNUOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
10-12-2021	7.26	18	28	BDL
26-12-2021	6.5	48	68	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
10-12-2021	7.63	22	36	BDL
26-12-2021	7.75	40	60	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
10-12-2021	48	14
26-12-2021	66	20
GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS GSR 801E EPA 1993	100	30



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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
DEC'21	08-12-2021	64.7	63.6
DEC'21	25-12-2021	64.9	61.2
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
DEC'21	08-12-2021	45.2	43.8
DEC'21	25-12-2021	45.7	43.8
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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## ENVIRONMENTAL MONITORING REPORT

# WANI RAILWAY SIDING

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034




DECEMBER 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/DEC-21/49	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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 $\mu\text{g}/\text{m}^3$ )					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	
06-12-2021	07-12-2021	166	90	58	18	14	Clear Sky / Calm
07-12-2021	08-12-2021	152	80	60	16	12	Clear Sky / Calm
10-12-2021	11-12-2021	146	74	50	14	10	Clear Sky / Calm
11-12-2021	12-12-2021	160	82	56	16	12	Clear Sky / Calm
21-12-2021	22-12-2021	144	70	52	14	10	Clear Sky / Calm
22-12-2021	23-12-2021	158	78	56	16	12	Clear Sky / Calm
25-12-2021	26-12-2021	176	84	62	18	14	Clear Sky / Calm
26-12-2021	27-12-2021	180	90	66	20	16	Clear Sky / Calm
TLV		600	300	-	120	120	

VITTALWADI   WNRSA3							
DATE(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	
06-12-2021	07-12-2021	128	60	44	18	14	Clear Sky / Calm
07-12-2021	08-12-2021	132	66	40	16	12	Clear Sky / Calm
10-12-2021	11-12-2021	138	66	38	20	16	Clear Sky / Calm
11-12-2021	12-12-2021	130	60	42	16	14	Clear Sky / Calm
21-12-2021	22-12-2021	120	56	32	14	10	Clear Sky / Calm
22-12-2021	23-12-2021	116	50	26	10	10	Clear Sky / Calm
25-12-2021	26-12-2021	132	58	34	12	10	Clear Sky / Calm
26-12-2021	27-12-2021	140	64	36	16	12	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	

PRAGATI NAGAR   WNRSA4							
DATE(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	
06-12-2021	07-12-2021	116	60	40	12	10	Clear Sky / Calm
07-12-2021	08-12-2021	108	54	28	10	10	Clear Sky / Calm
10-12-2021	11-12-2021	120	56	32	14	10	Clear Sky / Calm
11-12-2021	12-12-2021	128	62	34	12	10	Clear Sky / Calm
21-12-2021	22-12-2021	136	70	38	16	12	Clear Sky / Calm
22-12-2021	23-12-2021	116	58	32	14	10	Clear Sky / Calm
25-12-2021	26-12-2021	136	58	36	18	14	Clear Sky / Calm
26-12-2021	27-12-2021	108	56	30	14	12	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	



Analysed by



DEEPANSHU SAHU  
AUTHORIZED SIGNATORY

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**NOISE LEVEL MONITORING DATA**

MASJID NEAR FARM HOUSE		WNRSN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
DEC'21	09-12-2021	45.7	44.8
DEC'21	27-12-2021	49.4	45.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

NEAR INCHARGE OFFICE:		WNRSN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
DEC'21	09-12-2021	47.6	45.4
DEC'21	27-12-2021	46.2	44.9
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70



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## ENVIRONMENTAL MONITORING REPORT

# AMBARA OC

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



DECEMBER 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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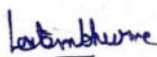
TEST REPORT NO.	RIN/TR/DEC-21/68	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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 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>	
10-12-2021	11-12-2021	5	5	2	6	10	Cloudy Sky / Lightbreeze
25-12-2021	26-12-2021	251	146	40	14	12	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 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>	
10-12-2021	11-12-2021	5	5	2	6	10	Cloudy/Lightbreeze
25-12-2021	26-12-2021	271	187	41	15	10	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 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>	
10-12-2021	11-12-2021	5	5	2	6	10	Cloudy/Lightbreeze
25-12-2021	26-12-2021	112	70	28	10	BDL	Clear/Lightbreeze
NAAQS, 2009		-	100	60	80	80	

AMBARA VILLAGE KMUA4							
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>	
10-12-2021	11-12-2021	5	5	2	6	10	Cloudy/Lightbreeze
25-12-2021	26-12-2021	120	75	24	9	BDL	Clear/Lightbreeze
NAAQS, 2009		-	100	60	80	80	



Analysed by




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

MINE WATER DISCHARGE: KAOW				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
10-12-2021	7.73	36	40	BDL
25-12-2021	7.67	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>MANAGER OFFICE:</b>		<b>KAON1</b>	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
			20
DEC'21	07.12.2021	52.7	51.7
DEC'21	22.12.2021	52.7	52.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY(MOHAN/MAORI):</b>		<b>KMUN2</b>	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
			20
DEC'21	07.12.2021	43.5	43.2
DEC'21	22.12.2021	43.6	43.4
<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



DECEMBER 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/DEC-21/69	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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 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>	
10-12-2021	11-12-2021	230	133	34	13	BDL	Cloudy/Lightbreeze
25-12-2021	26-12-2021	259	160	30	12	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 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>	
10-12-2021	11-12-2021	271	187	41	15	10	Cloudy/Lightbreeze
25-12-2021	26-12-2021	248	158	46	14	11	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 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>	
10-12-2021	11-12-2021	112	70	28	10	BDL	Cloudy/Lightbreeze
25-12-2021	26-12-2021	122	89	24	9	BDL	Clear/Lightbreeze
NAAQS, 2009		-	100	60	80	80	

AMBARA VILLAGE   KMUA4							
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>	
10-12-2021	11-12-2021	120	75	24	9	BDL	Cloudy/Lightbreeze
25-12-2021	26-12-2021	130	81	30	8	BDL	Clear/Lightbreeze
NAAQS, 2009		-	100	60	80	80	



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## ENVIRONMENTAL MONITORING REPORT

### AREA WORKSHOP

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



DECEMBER 2021


### Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

### CMPDI

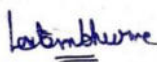
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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/DEC -21/70	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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			

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>	
09-12-2021	10-12-2021	249	132	36	13	BDL	Cloudy / Lightbreeze
24-12-2021	25-12-2021	267	156	31	14	BDL	Cloudy / 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>	

  
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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>
DEC'21	07-12-2021	51.7	51.5
DEC'21	22-12-2021	51.7	51.6
<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



DECEMBER 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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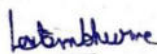
TEST REPORT NO.	RIN/TR/DEC-21/71	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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>	
07-12-2021	08-12-2021	269	160	34	13	BDL	Cloudy / Lightbreeze
22-12-2021	23-12-2021	238	149	30	11	BDL	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>	
07-12-2021	08-12-2021	250	158	34	14	11	Cloudy / Lightbreeze
22-12-2021	23-12-2021	237	141	29	12	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>	
08-12-2021	09-12-2021	272	189	39	15	11	Cloudy / Lightbreeze
22-12-2021	23-12-2021	251	162	32	14	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>	
08-12-2021	09-12-2021	118	87	25	8	BDL	Cloudy / Lightbreeze
22-12-2021	23-12-2021	127	93	29	10	BDL	Clear / Lightbreeze
NAAQS, 2009		-	100	60	80	80	



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**NOISE LEVEL MONITORING DATA**

NEAR MANAGER OFFICE:		KDON1	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	07.12.2021	43.4	42.6
DEC'21	22.12.2021	43.2	42.5
<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



DECEMBER 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/DEC-21/72	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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>	
07-12-2021	08-12-2021	250	158	34	14	11	Cloudy / Lightbreeze
22-12-2021	23-12-2021	237	141	29	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>	
08-12-2021	09-12-2021	272	189	39	15	11	Cloudy / Lightbreeze
22-12-2021	23-12-2021	251	162	32	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>	
08-12-2021	09-12-2021	118	87	25	8	BDL	Cloudy / Lightbreeze
22-12-2021	23-12-2021	127	93	29	10	BDL	Clear / Lightbreeze
NAAQS, 2009		-	100	60	80	80	



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**NOISE LEVEL MONITORING DATA**

COLONY(DAMUA):		KDUN1	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	07.12.2021	43.6	42.7
DEC'21	22.12.2021	42.7	42.6
<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



DECEMBER 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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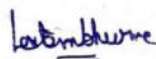
TEST REPORT NO.	RIN/TR/DEC-21/73	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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 $\mu\text{g}/\text{m}^3$ )					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	
08-12-2021	09-12-2021	259	167	33	13	BDL	Cloudy / Lightbreeze
23-12-2021	24-12-2021	241	154	28	15	BDL	Clear / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SAM-OFFICE GHORAWARI   KJUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
		5	5	2	6	10	
09-12-2021	10-12-2021	237	145	30	12	BDL	Cloudy / Lightbreeze
24-12-2021	25-12-2021	247	159	36	15	11	Clear / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

COLONY HEALTH CENTER JHARNA   KJUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
		5	5	2	6	10	
09-12-2021	10-12-2021	119	78	29	8	BDL	Cloudy / Lightbreeze
24-12-2021	25-12-2021	128	83	35	9	BDL	Clear / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

PANARA VILLAGE   KJUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
		5	5	2	6	10	
09-12-2021	10-12-2021	109	77	26	9	BDL	Cloudy / Lightbreeze
24-12-2021	25-12-2021	122	82	30	10	BDL	Clear / Lightbreeze
NAAQS, 2009		-	100	60	80	80	



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

MINE WATER DISCHARGE: 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
08-12-2021	7.62	32	44	BDL
23-12-2021	7.70	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
DEC'21	07.12.2021	44.6	43.4
DEC'21	22.12.2021	43.3	43.2
<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
DEC'21	07.12.2021	42.7	42.5
DEC'21	22.12.2021	43.4	42.7
<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



DECEMBER 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/DEC-21/74	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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	
08-12-2021	09-12-2021	237	149	37	12	BDL	Cloudy / Lightbreeze
23-12-2021	24-12-2021	266	169	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>	

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	
09-12-2021	10-12-2021	237	145	30	12	BDL	Cloudy / Lightbreeze
24-12-2021	25-12-2021	247	159	36	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>	

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	
09-12-2021	10-12-2021	119	78	29	8	BDL	Cloudy / Lightbreeze
24-12-2021	25-12-2021	128	83	35	9	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	
09-12-2021	10-12-2021	109	77	26	9	BDL	Cloudy / Lightbreeze
24-12-2021	25-12-2021	122	82	30	10	BDL	Clear / Lightbreeze
NAAQS, 2009		-	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	

*Latimberne*

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**NOISE LEVEL MONITORING DATA**

<b>FAN HOUSE: KJUN1</b>			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	07.12.2021	46.7	45.7
DEC'21	22.12.2021	51.6	50.4
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY: KJUN1</b>			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	07.12.2021	42.7	42.5
DEC'21	22.12.2021	43.4	42.7
<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



DECEMBER 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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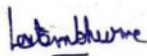
TEST REPORT NO.	RIN/TR/DEC-21/75	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
10-12-2021	11-12-2021	230	133	34	13	BDL	Cloudy/Lightbreeze
25-12-2021	26-12-2021	259	160	30	12	BDL	Clear/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>	
10-12-2021	11-12-2021	271	187	41	15	10	Cloudy/Lightbreeze
25-12-2021	26-12-2021	248	158	46	14	11	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>	
10-12-2021	11-12-2021	112	70	28	10	BDL	Cloudy/Lightbreeze
25-12-2021	26-12-2021	122	89	24	9	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>	
10-12-2021	11-12-2021	120	75	24	9	BDL	Cloudy/Lightbreeze
25-12-2021	26-12-2021	130	81	30	8	BDL	Clear/Lightbreeze
NAAQS, 2009		-	100	60	80	80	



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**NOISE LEVEL MONITORING DATA**

FAN HOUSE:		KMUN1	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	07.12.2021	69.7	68.6
DEC'21	22.12.2021	68.7	68.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY(MOHAN MAORI):		KMUN2	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	07.12.2021	43.5	43.2
DEC'21	22.12.2021	43.6	43.4
<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



DECEMBER 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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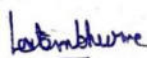
TEST REPORT NO.	RIN/TR/DEC-21/76	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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			

DATE(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>	
07-12-2021	08-12-2021	222	145	36	11	BDL	Cloudy / Lightbreeze
22-12-2021	23-12-2021	258	172	40	14	11	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>	
07-12-2021	08-12-2021	267	174	33	12	BDL	Cloudy / Lightbreeze
22-12-2021	23-12-2021	251	166	39	13	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>	
06-12-2021	07-12-2021	132	91	29	10	BDL	Cloudy / Lightbreeze
21-12-2021	22-12-2021	120	88	33	11	BDL	Clear / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
06-12-2021	07-12-2021	131	82	24	9	BDL	Cloudy / Lightbreeze
21-12-2021	22-12-2021	121	91	29	8	BDL	Cloudy / Lightbreeze
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: KNUW1		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
07-12-2021	7.23	28	40	BDL
22-12-2021	7.60	24	32	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>FAN HOUSE UG II: KNUN1</b>			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	07.12.2021	69.5	68.7
DEC'21	22.12.2021	70.7	70.5
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY: KNUN2</b>			
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	07.12.2021	43.6	42.7
DEC'21	22.12.2021	43.5	43.3
<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



DECEMBER 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/DEC-21/77	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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 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	
06-12-2021	07-12-2021	258	164	35	13	BDL	Cloudy / Lightbreeze
21-12-2021	22-12-2021	238	155	31	12	BDL	Cloudy / 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 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	
07-12-2021	08-12-2021	222	145	36	11	BDL	Cloudy / Lightbreeze
22-12-2021	23-12-2021	258	172	40	14	11	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 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	
06-12-2021	07-12-2021	138	80	28	8	BDL	Cloudy / Lightbreeze
21-12-2021	22-12-2021	124	90	32	10	BDL	Cloudy / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

NANDAN WATER FILTER PLANT   KNWA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <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	
06-12-2021	07-12-2021	131	82	24	9	BDL	Cloudy / Lightbreeze
21-12-2021	22-12-2021	121	91	29	8	BDL	Cloudy / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

*Labimbhurne*

Analysed by

*[Signature]*

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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
DEC'21	07.12.2021	44.6	43.7
DEC'21	22.12.2021	46.6	46.5
<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
DEC'21	07.12.2021	43.4	42.6
DEC'21	22.12.2021	43.4	42.7
<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



DECEMBER 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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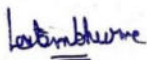
TEST REPORT NO.	RIN/TR/DEC-21/78	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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			

DATE(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>	
05-12-2021	06-12-2021	271	185	45	15	11	Cloudy / Lightbreeze
20-12-2021	21-12-2021	255	162	40	14	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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
05-12-2021	06-12-2021	254	164	37	14	11	Cloudy / Lightbreeze
20-12-2021	21-12-2021	239	149	32	13	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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
05-12-2021	06-12-2021	127	88	25	8	BDL	Cloudy / Lightbreeze
20-12-2021	21-12-2021	119	92	29	7	BDL	Cloudy / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
05-12-2021	06-12-2021	119	77	22	9	BDL	Cloudy / Lightbreeze
20-12-2021	21-12-2021	129	92	28	10	BDL	Cloudy / Lightbreeze
NAAQS, 2009		-	100	60	80	80	



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: 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
05-12-2021	7.87	36	44	BDL
20-12-2021	7.66	28	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:		KTUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
DEC'21	05.12.2021	71.7	71.5
DEC'21	20.12.2021	73.3	72.5
<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
DEC'21	05.12.2021	43.6	43.4
DEC'21	20.12.2021	43.6	43.4
<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



DECEMBER 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>		
TEST REPORT NO.	RIN/TR/DEC-21/55	DATE OF ISSUE	15.01.2022	
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR			
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021			
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09-12-2021	10-12-2021	288	184	58	20	BDL	Clear / Calm
24-12-2021	25-12-2021	297	192	54	19	BDL	Clear / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	


SAM OFFICE   PBOA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09-12-2021	10-12-2021	294	196	60	22	BDL	Clear / Calm
24-12-2021	25-12-2021	286	184	56	21	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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
10-12-2021	11-12-2021	284	179	53	19	BDL	Clear / Calm
23-12-2021	24-12-2021	286	188	56	20	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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
10-12-2021	11-12-2021	140	84	40	15	BDL	Clear / Calm
23-12-2021	24-12-2021	146	88	42	16	BDL	Clear / Calm
NAAQS, 2009		-	100	60	80	80	



Analysed by

  
 Deepanshu sahu  
 Authorised Signatory

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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
	DETECTION LIMIT	20	20
DEC'21	09.12.2021	44.2	42.8
DEC'21	24.12.2021	43.8	42.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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## ENVIRONMENTAL MONITORING REPORT

# CHANDAMETA WORKSHOP

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



DECEMBER 2021

**Environment Laboratory**

NABL ACCREDITED VIDE NO TC-7102 UP TO

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

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<b>Environment Laboratory CMPDI RI-IV, NAGPUR</b>	<b>Test Report</b>	 TC-7102
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TEST REPORT NO.	RIN/TR/DEC-21/56	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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			

CHANDAMETA WORKSHOP		PCWA1					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>	
10-12-2021	11-12-2021	284	179	53	19	BDL	CLEAR/ CALM
23-12-2021	24-12-2021	286	188	56	20	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	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
DEC'21	09.12.2021	48.1	46.4
DEC'21	24.12.2021	47.4	45.9
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

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## ENVIRONMENTAL MONITORING REPORT

# CHINDA OC

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



DECEMBER 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/DEC-21/57	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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			

DATE(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>	
08-12-2021	09-12-2021	284	186	58	22	BDL	CLEAR/ CALM
23-12-2021	24-12-2021	278	178	54	23	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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09-12-2021	10-12-2021	274	183	56	22	BDL	CLEAR/ CALM
24-12-2021	25-12-2021	282	174	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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08-12-2021	09-12-2021	146	96	42	14	BDL	CLEAR/ CALM
23-12-2021	24-12-2021	138	88	36	15	BDL	CLEAR/ 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>	
09-12-2021	10-12-2021	149	92	36	15	BDL	CLEAR/ CALM
24-12-2021	25-12-2021	138	86	38	14	BDL	CLEAR/ 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: 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
09-12-2021	7.86	36	32	BDL
24-12-2021	7.92	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**

NEAR MANAGER OFFICE:		PCON1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
DEC'21	09.12.2021	53.8	52.4
DEC'21	24.12.2021	52.6	51.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY CHINDA:		PCON2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
DEC'21	09.12.2021	43.5	41.7
DEC'21	24.12.2021	44.9	41.8
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



DECEMBER 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/DEC-21/58	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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			

DATE(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>	
03-12-2021	04-12-2021	292	192	62	23	BDL	CLEAR/ CALM
18-12-2021	19-12-2021	286	198	58	22	BDL	CLEAR/ CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH September 2000		600	300	-	120	120	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
03-12-2021	04-12-2021	284	194	56	21	BDL	CLEAR/ CALM
18-12-2021	19-12-2021	282	182	52	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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
03-12-2021	04-12-2021	146	92	40	16	BDL	CLEAR/ CALM
18-12-2021	19-12-2021	142	88	38	15	BDL	CLEAR/ 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>	
03-12-2021	04-12-2021	138	86	40	15	BDL	CLEAR/ CALM
18-12-2021	19-12-2021	144	82	38	14	BDL	CLEAR/ CALM
NAAQS, 2009		-	100	60	80	80	



Analysed by


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**NOISE LEVEL MONITORING DATA**

<b>FAN HOUSE: PGUN1</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>	<b>20</b>	<b>20</b>
DEC'21	09.12.2021	47.6	46.2
DEC'21	24.12.2021	47.3	45.1
<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</b>	<b>NOISE LEVEL IN dB(A)</b>	
	<b>COLLECTION</b>	<b>DAY TIME</b>	<b>NIGHT TIME</b>
	<b>DETECTION LIMIT</b>	<b>20</b>	<b>20</b>
DEC'21	09.12.2021	43.7	42.1
DEC'21	24.12.2021	44.2	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



DECEMBER 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/DEC-21/59	DATE OF ISSUE	15-01-2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
05-12-2021	06-12-2021	294	192	56	20	BDL	CLEAR/ CALM
20-12-2021	21-12-2021	288	184	52	19	BDL	CLEAR/ CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SUBSTATION   PJUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
05-12-2021	06-12-2021	282	192	62	23	BDL	CLEAR/ CALM
20-12-2021	21-12-2021	268	182	56	22	BDL	CLEAR/ CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

JAMUNIA VILLAGE   PJUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
05-12-2021	06-12-2021	138	88	38	14	BDL	CLEAR/ CALM
20-12-2021	21-12-2021	125	82	36	15	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: PJUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
05-12-2021	7.86	72	60	BDL
20-12-2021	8.01	42	32	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**

MANAGER OFFICE:		PJUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
DEC'21	09.12.2021	45.7	44.3
DEC'21	24.12.2021	45.5	44.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

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## ENVIRONMENTAL MONITORING REPORT

# MAHADEOPURI UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



DECEMBER 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/DEC-21/60	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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 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>	
03-12-2021	04-12-2021	284	194	56	21	BDL	CLEAR/ CALM
18-12-2021	19-12-2021	282	182	52	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>	
03-12-2021	04-12-2021	292	192	62	23	BDL	CLEAR/ CALM
18-12-2021	19-12-2021	286	198	58	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>	
03-12-2021	04-12-2021	138	86	40	15	BDL	CLEAR/ CALM
18-12-2021	19-12-2021	144	82	38	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>	
03-12-2021	04-12-2021	146	92	40	16	BDL	CLEAR/ CALM
18-12-2021	19-12-2021	142	88	38	15	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: PMUW1		ANALYSIS RESULTS		
DATE OF SAMPLE COLLECTION	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>
03-12-2021	7.83	38	36	BDL
18-12-2021	7.74	44	40	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>



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
DEC'21	09.12.2021	68.9	66.5
DEC'21	24.12.2021	68.1	66.4
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
DEC'21	09.12.2021	44.4	42.7
DEC'21	24.12.2021	44.1	42.8
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



DECEMBER 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/DEC-21/61	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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>	
04-12-2021	05-12-2021	5	5	2	6	10	CLEAR/ CALM
19-12-2021	20-12-2021	296	194	62	21	BDL	CLEAR/ CALM
19-12-2021	20-12-2021	284	188	58	23	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>	
04-12-2021	05-12-2021	5	5	2	6	10	CLEAR/ CALM
19-12-2021	20-12-2021	288	182	58	21	BDL	CLEAR/ CALM
19-12-2021	20-12-2021	290	192	54	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>	
04-12-2021	05-12-2021	5	5	2	6	10	CLEAR/ CALM
19-12-2021	20-12-2021	138	94	42	15	BDL	CLEAR/ CALM
19-12-2021	20-12-2021	152	92	36	14	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>	
04-12-2021	05-12-2021	5	5	2	6	10	CLEAR/ CALM
19-12-2021	20-12-2021	144	94	38	15	BDL	CLEAR/ CALM
19-12-2021	20-12-2021	140	82	43	14	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
04-12-2021	7.92	34	28	BDL
19-12-2021	7.81	48	44	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

<b>FAN HOUSE: PNUN1</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>
DEC'21	09.12.2021	68.8	67.7
DEC'21	24.12.2021	68.6	67.2
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY: PNUN2</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>
DEC'21	09.12.2021	44.5	43.1
DEC'21	24.12.2021	44.2	42.8
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>

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## ENVIRONMENTAL MONITORING REPORT

# NEW SETHIA OC

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



DECEMBER 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/DEC-21/62	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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 $\mu\text{g}/\text{m}^3$ )					
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
07-12-2021	08-12-2021	288	187	58	22	BDL	CLOUDY/ CALM
22-12-2021	23-12-2021	264	162	56	21	BDL	CLOUDY/ 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 $\mu\text{g}/\text{m}^3$ )					
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08-12-2021	09-12-2021	284	186	58	22	BDL	CLEAR/ CALM
23-12-2021	24-12-2021	278	178	54	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					ENVIRONMENT CONDITIONS (Sky/Wind)
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08-12-2021	09-12-2021	146	96	42	14	BDL	CLEAR/ CALM
23-12-2021	24-12-2021	138	88	36	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 $\mu\text{g}/\text{m}^3$ )					
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
09-12-2021	10-12-2021	149	92	36	15	BDL	CLEAR/ CALM
24-12-2021	25-12-2021	138	86	38	14	BDL	CLEAR/ 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: PSOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
09-12-2021	7.81	42	36	BDL
24-12-2021	7.72	46	40	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

NEAR MANAGER OFFICE:		PSON1	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	09.12.2021	48.1	46.3
DEC'21	24.12.2021	47.8	46.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY CHINDA:		PCON2	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	09.12.2021	43.5	41.7
DEC'21	24.12.2021	44.9	41.8
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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## ENVIRONMENTAL MONITORING REPORT

# SHIVPURI OC

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



DECEMBER 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/DEC-21-21/63	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
07-12-2021	08-12-2021	5	5	2	6	10	CLEAR/ CALM
22-12-2021	23-12-2021	274	188	56	23	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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08-12-2021	09-12-2021	5	5	2	6	10	CLEAR/ CALM
23-12-2021	24-12-2021	284	192	56	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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
07-12-2021	08-12-2021	5	5	2	6	10	CLEAR/ CALM
22-12-2021	23-12-2021	142	94	42	16	BDL	CLEAR/ CALM
NAAQS, 2009		-	100	60	80	80	

CHINDA VILLAGE   PCOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08-12-2021	09-12-2021	5	5	2	6	10	CLEAR/ CALM
23-12-2021	24-12-2021	146	96	42	14	BDL	CLEAR/ CALM
NAAQS, 2009		-	100	60	80	80	



Analysed by


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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
DEC'21	09.12.2021	52.6	51.3
DEC'21	24.12.2021	51.6	50.1
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



DECEMBER 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/DEC-21/64	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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	
06-12-2021	07-12-2021	152	94	42	15	BDL	CLEAR/ CALM
21-12-2021	22-12-2021	148	86	38	14	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	
07-12-2021	08-12-2021	272	168	56	22	BDL	CLEAR/ CALM
22-12-2021	23-12-2021	282	178	54	21	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	
06-12-2021	07-12-2021	292	184	56	22	BDL	CLEAR/ CALM
21-12-2021	22-12-2021	282	172	52	21	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	
06-12-2021	07-12-2021	138	94	42	16	BDL	CLEAR/ CALM
21-12-2021	22-12-2021	136	84	40	15	BDL	CLEAR/ 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: PTUW1		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	
07-12-2021	8.2	50	44	BDL	
22-12-2021	7.72	48	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-MATHANI:		PTUN1	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	09.12.2021	69.7	68.2
DEC'21	24.12.2021	69.1	68.3
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY-THESGORA:		PTUN2	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	09.12.2021	44.6	42.9
DEC'21	24.12.2021	44.3	43.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45



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## ENVIRONMENTAL MONITORING REPORT

### URDHAN OC

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



DECEMBER 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/DEC-21/65	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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			

URDHAN MANAGER OFFICE   PUAO1							
DATE(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>	
07-12-2021	08-12-2021	282	186	60	23	BDL	CLEAR/ CALM
21-12-2021	22-12-2021	278	174	56	22	BDL	CLEAR/ CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

URDHAN VILLAGE   PUAO2							
DATE(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>	
05-12-2021	06-12-2021	144	92	40	15	BDL	CLEAR/ CALM
20-12-2021	21-12-2021	138	86	38	14	BDL	CLEAR/ CALM
NAAQS, 2009		-	100	60	80	80	

NEHARIA VILLAGE   PNUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
04-12-2021	05-12-2021	138	94	42	15	BDL	CLEAR/ CALM
19-12-2021	20-12-2021	152	92	36	14	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>	
04-12-2021	05-12-2021	144	94	38	15	BDL	CLEAR/ CALM
19-12-2021	20-12-2021	140	82	43	14	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: 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
06-12-2021	8.17	48	40	BDL
21-12-2021	7.52	52	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**

MANAGER OFFICE: PUON1		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	09.12.2021	54.8	53.4
DEC'21	24.12.2021	53.7	52.8
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

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## ENVIRONMENTAL MONITORING REPORT

# VISHNUPURI-II UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



DECEMBER 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-7162
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TEST REPORT NO.	RIN/TR/DEC-21/67	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08-12-2021	09-12-2021	282	192	58	21	BDL	CLEAR/ CALM
23-12-2021	24-12-2021	268	173	56	20	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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08-12-2021	09-12-2021	284	192	56	22	BDL	CLEAR/ CALM
23-12-2021	24-12-2021	278	184	52	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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
07-12-2021	08-12-2021	142	94	42	16	BDL	CLEAR/ CALM
22-12-2021	23-12-2021	138	84	38	14	BDL	CLEAR/ 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>	
07-12-2021	08-12-2021	146	96	42	14	BDL	CLEAR/ CALM
22-12-2021	23-12-2021	138	88	36	15	BDL	CLEAR/ 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: 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
08-12-2021	7.7	40	36	BDL
23-12-2021	7.82	52	44	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

FAN HOUSE UG-II:		PV2UN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	09.12.2021	69.4	68.1
DEC'21	24.12.2021	68.8	67.9
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY(VISHNUPURI-I):		PV1UN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	09.12.2021	44.2	42.5
DEC'21	24.12.2021	43.9	42.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45



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## ENVIRONMENTAL MONITORING REPORT

# VISHNUPURI-I UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



DECEMBER 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/DEC-21/66	DATE OF ISSUE	15.01.2021
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			

SAM OFFICE   PV1UA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08-12-2021	09-12-2021	282	192	58	21	BDL	CLEAR/ CALM
23-12-2021	24-12-2021	268	173	56	20	BDL	CLEAR/ CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SUBSTATION   PV2UA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
08-12-2021	09-12-2021	284	192	56	22	BDL	CLEAR/ CALM
23-12-2021	24-12-2021	278	184	52	21	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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
07-12-2021	08-12-2021	142	94	42	16	BDL	CLEAR/ CALM
22-12-2021	23-12-2021	138	84	38	14	BDL	CLEAR/ CALM
NAAQS, 2009		-	100	60	80	80	

CHINDA VILLAGE   PCOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
07-12-2021	08-12-2021	146	96	42	14	BDL	CLEAR/ CALM
22-12-2021	23-12-2021	138	88	36	15	BDL	CLEAR/ CALM
NAAQS, 2009		-	100	60	80	80	



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**NOISE LEVEL MONITORING DATA**

FAN HOUSE UG-I:		PV1UN1	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	09.12.2021	47.6	46.3
DEC'21	25.12.2021	47.1	46.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY:		PV2UN2	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	09.12.2021	44.2	42.5
DEC'21	25.12.2021	43.9	42.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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## ENVIRONMENTAL MONITORING REPORT

# CHATTARPUR I & II UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420035



DECEMBER 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/DEC-21/79	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
01-12-2021	02-12-2021	265	171	43	14	11	Clear/Lightbreeze
16-12-2021	17-12-2021	241	149	40	12	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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
01-12-2021	02-12-2021	245	165	40	13	BDL	Clear/Lightbreeze
16-12-2021	17-12-2021	237	151	45	11	BDL	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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
01-12-2021	02-12-2021	271	189	42	15	11	Clear/Lightbreeze
16-12-2021	17-12-2021	255	170	38	16	13	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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
01-12-2021	02-12-2021	120	90	23	9	BDL	Clear/Lightbreeze
16-12-2021	17-12-2021	109	79	27	10	BDL	Cloudy/Lightbreeze
NAAQS, 2009		-	100	60	80	80	

*Latimkume*

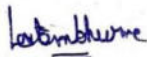
*[Signature]*  
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SAMPLE DESCRIPTION	Water sample
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING 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
09-12-2021	7.5	26	40	BDL
24-12-2021	8.18	28	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
09-12-2021	7.33	28	36	BDL
24-12-2021	8.02	32	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-I UG:		PKCUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
DEC'21	03.12.2021	72.6	72.4
DEC'21	17.12.2021	72.6	72.4
<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)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
DEC'21	03.12.2021	72.6	71.7
DEC'21	17.12.2021	72.7	71.7
<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)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
DEC'21	03.12.2021	43.4	42.7
DEC'21	17.12.2021	43.5	43.3
<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



DECEMBER 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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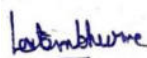
TEST REPORT NO.	RIN/TR/DEC-21/80	DATE OF ISSUE	15.01.2021
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance		
NAME OF AREA	PATHARKHERA	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	SARNI UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

SUBSTATION SARNI UG   PKSUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
04-12-2021	05-12-2021	266	173	42	15	11	Cloudy/ Lightbreeze
19-12-2021	20-12-2021	247	158	37	13	BDL	Clear/ Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

NEAR DY. CME OFFICE   PKSUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
04-12-2021	05-12-2021	263	172	32	15	11	Cloudy/ Lightbreeze
19-12-2021	20-12-2021	247	157	37	13	BDL	Clear/ Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

GM OFFICE ENTRANCE GATE   PKSUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
04-12-2021	05-12-2021	129	78	27	10	BDL	Cloudy/ Lightbreeze
19-12-2021	20-12-2021	119	83	30	9	BDL	Clear/ Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		-	100	60	80	80	

PATHAKHERA COLONY   PKSUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
04-12-2021	05-12-2021	127	76	23	9	BDL	Cloudy/ Lightbreeze
19-12-2021	20-12-2021	122	89	29	10	BDL	Clear/ Lightbreeze
NAAQS, 2009		-	100	60	80	80	



Analysed by


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

MINE WATER DISCHARGE: 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
04-12-2021	7.54	22	32	BDL
19-12-2021	7.45	26	40	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

FAN HOUSE:		PKSUN1	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	03.12.2021	72.7	72.4
DEC'21	17.12.2021	72.7	71.7
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

COLONY(SARNI):		PKSUN2	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	03.12.2021	42.7	42.6
DEC'21	17.12.2021	43.5	42.7
<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



DECEMBER 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>	
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TEST REPORT NO.	RIN/TR/DEC-21/81	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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			

SAM OFFICE   PKSHUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
02-12-2021	03-12-2021	231	145	34	14	11	Cloudy / Lightbreeze
17-12-2021	18-12-2021	259	162	30	12	BDL	Clear / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SUBSTATION   PKSHUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
02-12-2021	03-12-2021	261	158	36	12	BDL	Cloudy / Lightbreeze
17-12-2021	18-12-2021	257	149	33	14	10	Clear / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SHOBHAPUR VILLAGE   PKSHUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
02-12-2021	03-12-2021	121	79	23	9	BDL	Cloudy / Lightbreeze
17-12-2021	18-12-2021	111	89	26	10	BDL	Clear / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

SHOBHAPUR COLONY   PKSHUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
02-12-2021	03-12-2021	107	72	28	10	BDL	Cloudy / Lightbreeze
17-12-2021	18-12-2021	119	88	30	8	BDL	Clear / Lightbreeze
NAAQS, 2009		-	100	60	80	80	



Analysed by



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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
DEC'21	03.12.2021	71.5	70.4
DEC'21	17.12.2021	71.6	71.4
<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
DEC'21	03.12.2021	43.6	42.7
DEC'21	17.12.2021	43.5	43.2
<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



DECEMBER 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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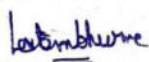
TEST REPORT NO.	RIN/TR/DEC-21/82	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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 $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
03-12-2021	04-12-2021	249	166	40	14	10	Cloudy / Lightbreeze
18-12-2021	19-12-2021	255	149	37	13	BDL	Clear / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 <sup>TH</sup> September 2000		600	300	-	120	120	

SAM OFFICE   PKTUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$ )					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	SO <sub>2</sub>	
03-12-2021	04-12-2021	247	155	47	13	BDL	Cloudy / Lightbreeze
18-12-2021	19-12-2021	268	169	43	12	BDL	Clear / Lightbreeze
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>	
03-12-2021	04-12-2021	110	72	24	9	BDL	Cloudy / Lightbreeze
18-12-2021	19-12-2021	121	83	29	10	BDL	Clear / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

HIRA PALLA/BHAGAIAKHAPA 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>	
03-12-2021	04-12-2021	109	79	22	9	BDL	Cloudy / Lightbreeze
18-12-2021	19-12-2021	124	86	26	10	BDL	Clear / Lightbreeze
NAAQS, 2009		-	100	60	80	80	



Analysed by



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

MINE WATER DISCHARGE: 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
03-12-2021	7.52	26	40	BDL
18-12-2021	7.36	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**

FAN HOUSE:		PKTUN1	
MONTH	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'21	03.12.2021	71.7	71.5
DEC'21	17.12.2021	72.6	72.4
<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



DECEMBER 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/DEC-21/83	DATE OF ISSUE	15.01.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/178-193 DATED: 23.04.2021		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO <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 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>	
03-12-2021	04-12-2021	5	5	2	6	10	Cloudy / Lightbreeze
18-12-2021	19-12-2021	268	169	43	12	BDL	Clear / Lightbreeze
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 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>	
03-12-2021	04-12-2021	247	166	40	14	10	Cloudy / Lightbreeze
18-12-2021	19-12-2021	255	149	37	13	BDL	Clear / Lightbreeze
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 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>	
03-12-2021	04-12-2021	110	72	24	9	BDL	Cloudy / Lightbreeze
18-12-2021	19-12-2021	121	83	29	10	BDL	Clear / Lightbreeze
NAAQS, 2009		-	100	60	80	80	

HIRA PALLA/BHAGAIKHAPA VILLAGE   PKT2UA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m <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>	
03-12-2021	04-12-2021	109	79	22	9	BDL	Cloudy / Lightbreeze
18-12-2021	19-12-2021	124	86	26	10	BDL	Clear / Lightbreeze
NAAQS, 2009		-	100	60	80	80	



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

MINE WATER DISCHARGE: 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
03-12-2021	7.64	30	40	BDL
18-12-2021	7.56	36	44	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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**NOISE LEVEL MONITORING DATA**

<b>FAN HOUSE:</b>		<b>PKTUN1</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
DEC'21	03.12.2021	72.6	72.4
DEC'21	17.12.2021	71.7	71.5
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>75</b>	<b>70</b>

<b>COLONY(TAWA):</b>		<b>PKTUN2</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
DEC'21	03.12.2021	43.5	43.2
DEC'21	17.12.2021	43.4	42.6
<b>NOISE POLLUTION (REGULATION AND CONTROL) RULES</b>		<b>55</b>	<b>45</b>