



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

BALLARPUR OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | | | | |
|---|--|--------------------|----------------------|---|--|
| Environment Laboratory CMPDI RI-IV, NAGPUR | | Test Report | |  | |
| TEST REPORT NO. | RIN/TR/FEB-24/41 | DATE OF ISSUE | 28-03-2024 | | |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | | LQR 47 | |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 | | |

| 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 ₁₀ | PM _{2.5} | No ₂ | So ₂ | |
| 11-02-2024 | 12-02-2024 | 298 | 174 | 56 | 16 | 10 | Clear Sky / Light Breeze |
| 26-02-2024 | 27-02-2024 | 325 | 189 | 58 | 20 | 16 | Clear Sky / Light Breeze |
| 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 ₁₀ | PM _{2.5} | No ₂ | So ₂ | |
| 11-02-2024 | 12-02-2024 | 274 | 152 | 48 | 14 | BDL | Clear Sky / Light Breeze |
| 26-02-2024 | 27-02-2024 | 220 | 147 | 40 | 16 | 12 | Clear Sky / Light Breeze |
| 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 ₁₀ | PM _{2.5} | No ₂ | So ₂ | |
| 10-02-2024 | 11-02-2024 | 269 | 158 | 53 | 15 | 10 | Clear Sky / Light Breeze |
| 25-02-2024 | 26-02-2024 | 256 | 140 | 49 | 22 | 13 | Clear Sky / Light Breeze |
| 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 | PM ₁₀ | PM _{2.5} | No ₂ | So ₂ | | |
| 11-02-2024 | 12-02-2024 | 80 | 39 | 12 | BDL | Clear Sky / Light Breeze | |
| 26-02-2024 | 27-02-2024 | 69 | 41 | 10 | BDL | Clear Sky / Light Breeze | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |


Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|---|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES : | 16-02-24 TO 15-03-24 |

| 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 |
| 11-02-2024 | 7.69 | 32 | 36 | BDL |
| 26-02-2024 | 7.24 | 36 | 60 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

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

| CHP: BBUN1 | | | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | | DETECTION LIMIT | 20 |
| FEB'24 | 10-02-2024 | 65.7 | 64.8 |
| FEB'24 | 26-02-2024 | 66.8 | 65.8 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| COLONY BALLARPUR UG: BBUN2 | | | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | | DETECTION LIMIT | 20 |
| FEB'24 | 10-02-2024 | 44.6 | 43.7 |
| FEB'24 | 26-02-2024 | 42.6 | 41.7 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

BALLARPUR UG

BALLARPUR AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/42 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| 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 ₁₀ | PM _{2.5} | No ₂ | So ₂ | |
| 11-02-2024 | 12-02-2024 | 298 | 174 | 56 | 16 | 10 | Clear Sky / Light Breeze |
| 26-02-2024 | 27-02-2024 | 325 | 189 | 58 | 20 | 16 | Clear Sky / Light Breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| SUBSTATION | | BBOA2 | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | No ₂ | So ₂ | |
| 11-02-2024 | 12-02-2024 | 274 | 152 | 48 | 14 | BDL | Clear Sky / Light Breeze |
| 26-02-2024 | 27-02-2024 | 220 | 147 | 40 | 16 | 12 | Clear Sky / Light Breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| PREMISES OF SUB AREA OFFICE | | BBOA3 | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | No ₂ | So ₂ | |
| 10-02-2024 | 11-02-2024 | 269 | 158 | 53 | 15 | 10 | Clear Sky / Light Breeze |
| 25-02-2024 | 26-02-2024 | 256 | 140 | 49 | 22 | 13 | Clear Sky / Light Breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| FILTER PLANT COLONY | | BBUA4 | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | No ₂ | So ₂ | | |
| 11-02-2024 | 12-02-2024 | 80 | 39 | 12 | BDL | Clear Sky / Light Breeze | |
| 26-02-2024 | 27-02-2024 | 69 | 41 | 10 | BDL | Clear Sky / Light Breeze | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |


Analysed by


| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|---|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES : | 16-02-24 TO 15-03-24 |

| MINE WATER DISCHARGE: BBUW1 | | | | |
|---|------------------|---------------|--------------|----------------|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS | | | |
| | pH | TSS (in mg/l) | COD(in mg/l) | O & G(in mg/l) |
| DETECTION LIMIT | 2 | 10 | 4 | 2 |
| 11-02-2024 | 8.12 | 30 | 36 | BDL |
| 26-02-2024 | 7.79 | 28 | 32 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

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

| FAN HOUSE: BBUN1 | | NOISE LEVEL IN dB(A) | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | DAY TIME | NIGHT TIME |
| | | DETECTION LIMIT | 20 |
| FEB'24 | 10-02-2024 | 68.5 | 67.6 |
| FEB'24 | 26-02-2024 | 67.6 | 66.5 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| COLONY: BBUN2 | | NOISE LEVEL IN dB(A) | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | DAY TIME | NIGHT TIME |
| | | DETECTION LIMIT | 20 |
| FEB'24 | 10-02-2024 | 44.6 | 43.7 |
| FEB'24 | 26-02-2024 | 42.6 | 41.7 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

GOURI-I & II (A) OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|--|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  TC-7102 |
|---|--------------------|--|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/44 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| MANAGER OFFICE-GOURI-I OC BGOA1 | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | No ₂ | So ₂ | |
| 10-02-2024 | 11-02-2024 | 278 | 163 | 47 | 16 | 10 | Clear Sky / Light Breeze |
| 25-02-2024 | 26-02-2024 | 312 | 182 | 60 | 20 | 11 | Clear Sky / Light Breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| SAM OFFICE GOURI SUB AREA BGOA2 | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | No ₂ | So ₂ | |
| 10-02-2024 | 11-02-2024 | 262 | 146 | 40 | 15 | 10 | Clear Sky / Light Breeze |
| 25-02-2024 | 26-02-2024 | 210 | 147 | 42 | 14 | 10 | Clear Sky / Light Breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| GOURI COLONY FILTER PLANT BSOA3 | | | | | | | |
|---------------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|--|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) | |
| FROM | TO | PM ₁₀ | PM _{2.5} | No ₂ | So ₂ | | |
| 01-02-2024 | 02-02-2024 | 65 | 32 | 10 | BDL | Clear Sky /Calm | |
| 02-02-2024 | 03-02-2024 | 69 | 28 | 14 | BDL | Clear Sky /Calm | |
| 08-02-2024 | 09-02-2024 | 74 | 34 | 12 | BDL | Clear Sky /Calm | |
| 09-02-2024 | 10-02-2024 | 76 | 35 | 12 | BDL | Clear Sky /Calm | |
| 15-02-2024 | 16-02-2024 | 75 | 29 | 10 | BDL | Clear Sky /Calm | |
| 16-02-2024 | 17-02-2024 | 69 | 39 | 12 | BDL | Clear Sky /Calm | |
| 22-02-2024 | 23-02-2024 | 72 | 34 | 14 | BDL | Clear Sky /Calm | |
| 23-02-2024 | 24-02-2024 | 70 | 36 | 15 | BDL | Clear Sky /Calm | |
| 29-02-2024 | 01-03-2024 | 68 | 39 | 15 | BDL | Clear Sky /Calm | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| GOURI VILLAGE BGOA4 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|--|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) | |
| FROM | TO | PM ₁₀ | PM _{2.5} | No ₂ | So ₂ | | |
| 09-02-2024 | 10-02-2024 | 80 | 38 | 12 | BDL | Clear Sky / Light Breeze | |
| 24-02-2024 | 25-02-2024 | 60 | 34 | 10 | BDL | Clear Sky / Light Breeze | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |


Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | |
|--------------------|--|--|
| SAMPLE DESCRIPTION | Water sample | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-02-24 TO 15-03-24 |

| MINE WATER DISCHARGE: BGOW1 | | | | |
|---|------------------|---------------|--------------|----------------|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS | | | |
| | pH | TSS (in mg/l) | COD(in mg/l) | O & G(in mg/l) |
| DETECTION LIMIT | 2 | 10 | 4 | 2 |
| 08-02-2024 | 7.86 | 40 | 32 | BDL |
| 23-02-2024 | 7..28 | 36 | 52 | 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 |
| 08-02-2024 | 8.49 | 26 | 60 | BDL |
| 23-02-2024 | 7.51 | 52 | 36 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |


Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

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

| CHP: BGON1 | | | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 66.8 | 65.9 |
| FEB'24 | 26-02-2024 | 68.8 | 66.8 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| GOURI COLONY: BSON2 | | | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 42.6 | 41.7 |
| FEB'24 | 26-02-2024 | 43.8 | 41.9 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

GOURI DEEP OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068




FEBRUARY 2024



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

AN ISO 9001:2015 COMPANY



| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/43 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| MANAGER OFFICE | | BGDO1 | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | No _x | So _x | |
| 08-02-2024 | 09-02-2024 | 298 | 173 | 59 | 18 | 14 | Clear Sky / Light Breeze |
| 23-02-2024 | 24-02-2024 | 246 | 172 | 58 | 20 | 12 | Clear Sky / Light Breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| MUTRA VILLAGE | | BGDO2 | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | |
| FROM | TO | PM ₁₀ | PM _{2.5} | No _x | So _x | | |
| 08-02-2024 | 09-02-2024 | 62 | 29 | 11 | BDL | Clear Sky / Light Breeze | |
| 23-02-2024 | 24-02-2024 | 65 | 32 | 10 | BDL | Clear Sky / Light Breeze | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| GOYEGAON VILLAGE | | BGDO3 | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | |
| FROM | TO | PM ₁₀ | PM _{2.5} | No _x | So _x | | |
| 08-02-2024 | 09-02-2024 | 74 | 30 | 12 | BDL | Clear Sky / Light Breeze | |
| 23-02-2024 | 24-02-2024 | 58 | 30 | 12 | BDL | Clear Sky / Light Breeze | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| ANTARGAON VILLAGE | | BGDO4 | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | |
| FROM | TO | PM ₁₀ | PM _{2.5} | No _x | So _x | | |
| 08-02-2024 | 09-02-2024 | 76 | 36 | 14 | BDL | Clear Sky / Light Breeze | |
| 23-02-2024 | 24-02-2024 | 74 | 35 | 14 | BDL | Clear Sky / Light Breeze | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|---|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES : | 16-02-24 TO 15-03-24 |

| 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 |
| 08-02-2024 | 7.99 | 32 | 48 | BDL |
| 23-02-2024 | 7.28 | 36 | 52 | 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 |
| 08-02-2024 | 8.6 | 40 | 64 | BDL |
| 23-02-2024 | 7.47 | 48 | 28 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

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

| MANAGER OFFICE: | | BGON1 | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | NIGHT TIME |
| FEB'24 | 10-02-2024 | 57.9 | 56.5 |
| FEB'24 | 26-02-2024 | 55.9 | 54.5 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| CHP | | BGON2 | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | NIGHT TIME |
| FEB'24 | 10-02-2024 | 62.5 | 61.6 |
| FEB'24 | 26-02-2024 | 64.5 | 63.6 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

NEW DHOPTALA OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/45 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | No ₂ | So ₂ | |
| 10-02-2024 | 11-02-2024 | 289 | 170 | 52 | 16 | 11 | Clear Sky / Light Breeze |
| 25-02-2024 | 26-02-2024 | 258 | 155 | 46 | 12 | 10 | Clear Sky / Light Breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | No ₂ | So ₂ | |
| 11-02-2024 | 12-02-2024 | 298 | 185 | 60 | 19 | 13 | Clear Sky / Light Breeze |
| 26-02-2024 | 27-02-2024 | 260 | 162 | 58 | 20 | 14 | Clear Sky / Light Breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|
| FROM | TO | PM ₁₀ | PM _{2.5} | No ₂ | So ₂ | |
| 10-02-2024 | 11-02-2024 | 84 | 39 | 14 | BDL | Clear Sky / Calm |
| 24-02-2024 | 25-02-2024 | 75 | 45 | 13 | BDL | Clear Sky / Calm |
| | | | | | 80 | |

| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|
| FROM | TO | PM ₁₀ | PM _{2.5} | No ₂ | So ₂ | |
| 08-02-2024 | 09-02-2024 | 62 | 29 | 11 | BDL | Clear Sky / Light Breeze |
| 23-02-2024 | 24-02-2024 | 65 | 32 | 10 | BDL | Clear Sky / Light Breeze |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |



Analysed by


| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|---|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES : | 16-02-24 TO 15-03-24 |

| MINE WATER DISCHARGE: BNDOW1 | | | | |
|---|------------------|---------------|--------------|----------------|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS | | | |
| | pH | TSS (in mg/l) | COD(in mg/l) | O & G(in mg/l) |
| DETECTION LIMIT | 2 | 10 | 4 | 2 |
| 11-02-2024 | 7.74 | 48 | 64 | BDL |
| 24-02-2024 | 7.45 | 52 | 28 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

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

| CHP: BNDON1 | | NOISE LEVEL IN dB(A) | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 65.9 | 64.5 |
| FEB'24 | 26-02-2024 | 65.9 | 64.5 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| SASTI COLONY: BSUN2 | | NOISE LEVEL IN dB(A) | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 44.8 | 43.9 |
| FEB'24 | 26-02-2024 | 44.1 | 43.8 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

PAUNI II OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/47 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| MINE OFFICE BP20A1 | | | | | | | |
|---|------------|---|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in µg/m ³) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | No ₂ | So ₂ | |
| 10-02-2024 | 11-02-2024 | 272 | 156 | 46 | 14 | 10 | Clear Sky / Calm |
| 24-02-2024 | 25-02-2024 | 289 | 178 | 59 | 16 | 11 | Clear Sky / Calm |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| SUBSTATION BP20A2 | | | | | | | |
|---|------------|---|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in µg/m ³) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | No ₂ | So ₂ | |
| 10-02-2024 | 11-02-2024 | 279 | 150 | 50 | 16 | 10 | Clear Sky / Calm |
| 24-02-2024 | 25-02-2024 | 274 | 156 | 51 | 16 | 10 | Clear Sky / Calm |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| SAKHARI VILLAGE BP20A3 | | | | | | | |
|----------------------------|------------|---|-------------------|-----------------|-----------------|--------------------------------------|--|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in µg/m ³) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) | |
| FROM | TO | PM ₁₀ | PM _{2.5} | No ₂ | So ₂ | | |
| 01-02-2024 | 02-02-2024 | 80 | 39 | 10 | BDL | Clear Sky / Calm | |
| 02-02-2024 | 03-02-2024 | 78 | 34 | 12 | BDL | Clear Sky / Calm | |
| 08-02-2024 | 09-02-2024 | 65 | 30 | 14 | BDL | Clear Sky / Calm | |
| 09-02-2024 | 10-02-2024 | 80 | 36 | 10 | BDL | Clear Sky / Calm | |
| 15-02-2024 | 16-02-2024 | 74 | 38 | 11 | BDL | Clear Sky / Calm | |
| 16-02-2024 | 17-02-2024 | 74 | 30 | 13 | BDL | Clear Sky / Calm | |
| 22-02-2024 | 23-02-2024 | 60 | 36 | 11 | BDL | Clear Sky / Calm | |
| 23-02-2024 | 24-02-2024 | 64 | 32 | 14 | BDL | Clear Sky / Calm | |
| 29-02-2024 | 01-03-2024 | 76 | 29 | 10 | BDL | Clear Sky / Calm | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| WORKSHOP PAUNI OC BPOA2 | | | | | | | |
|---|------------|---|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in µg/m ³) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | No ₂ | So ₂ | |
| 09-02-2024 | 10-02-2024 | 247 | 135 | 46 | 14 | BDL | Clear Sky /Light Breeze |
| 24-02-2024 | 25-02-2024 | 254 | 156 | 50 | 10 | BDL | Clear Sky /Light Breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | |
|--------------------|--|--|
| SAMPLE DESCRIPTION | Water sample | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-02-24 TO 15-03-24 |

| 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 |
| 09-02-2024 | 8.44 | 28 | 44 | BDL |
| 23-02-2024 | 8.17 | 40 | 32 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25-09- 2000 | 5.5 - 9.0 | 100 | 250 | 10 |


Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

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

| MANAGER OFFICE: | | BPON1 | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | NIGHT TIME |
| FEB'24 | 10-02-2024 | 56.7 | 55.8 |
| FEB'24 | 26-02-2024 | 57.7 | 56.8 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| CHP | | BPON2 | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | NIGHT TIME |
| FEB'24 | 10-02-2024 | 63.8 | 62.9 |
| FEB'24 | 26-02-2024 | 64.8 | 63.8 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

PAUNI OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|--|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  TC-7182 |
|---|--------------------|--|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/46 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |


| MANAGER OFFICE-POUNI OC BPOA1 | | | | | | | |
|--|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy)OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | No ₂ | So ₂ | |
| 09-02-2024 | 10-02-2024 | 284 | 169 | 58 | 17 | 12 | Clear Sky /Light Breeze |
| 24-02-2024 | 25-02-2024 | 278 | 172 | 36 | 14 | 10 | Clear Sky /Light Breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| WORKSHOP PAUNI OC BPOA2 | | | | | | | |
|--|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy)OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | No ₂ | So ₂ | |
| 09-02-2024 | 10-02-2024 | 247 | 135 | 46 | 14 | BDL | Clear Sky /Light Breeze |
| 24-02-2024 | 25-02-2024 | 254 | 156 | 50 | 10 | BDL | Clear Sky /Light Breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| PAUNI VILLAGE BPOA3 | | | | | | | |
|---------------------------|------------|--|-------------------|-----------------|-----------------|-------------------------|--------------------------------------|
| DATE(dd:mm:yy)OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | No ₂ | So ₂ | | |
| 09-02-2024 | 10-02-2024 | 62 | 31 | 12 | BDL | Clear Sky /Light Breeze | |
| 24-02-2024 | 25-02-2024 | 75 | 36 | 15 | 10 | Clear Sky /Light Breeze | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| GOURI VILLAGE BGOA4 | | | | | | | |
|---------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------|--------------------------------------|
| DATE(dd:mm:yy)OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | No ₂ | So ₂ | | |
| 09-02-2024 | 10-02-2024 | 80 | 38 | 12 | BDL | Clear Sky / Light Breeze | |
| 24-02-2024 | 25-02-2024 | 60 | 34 | 10 | BDL | Clear Sky / Light Breeze | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |


Analysed by

| | | | | |
|---|--|--|--|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | | Test Report | |  |
| SAMPLE DESCRIPTION | Water sample | | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-02-24 TO 15-03-24 | | |

| MINE WATER DISCHARGE: BPOW1 | | | | |
|--|------------------|---------------|--------------|----------------|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS | | | |
| | pH | TSS (in mg/l) | COD(in mg/l) | O & G(in mg/l) |
| DETECTION LIMIT | 2 | 10 | 4 | 2 |
| 10-02-2024 | 8.01 | 36 | 56 | BDL |
| 24-02-2024 | 7.51 | 32 | 32 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |

| ETP DISCHARGE: BPOW2 | | | | |
|--|------------------|---------------|--------------|----------------|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS | | | |
| | pH | TSS (in mg/l) | COD(in mg/l) | O & G(in mg/l) |
| DETECTION LIMIT | 2 | 10 | 4 | 2 |
| 10-02-2024 | 8.31 | 38 | 36 | BDL |
| 24-02-2024 | 8.03 | 56 | 40 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

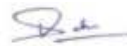
| | |
|--------------------|--|
| SAMPLE DESCRIPTION | NOISE SAMPLE |
| Test Required | CPCB PROTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015 |
| SAMPLING METHOD | LSOP 6 |

| MANAGER OFFICE: | | BPON1 | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 56.6 | 55.7 |
| FEB'24 | 26-02-2024 | 54.4 | 54.1 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| GOURI COLONY: | | BSON2 | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 42.6 | 41.7 |
| FEB'24 | 26-02-2024 | 43.8 | 41.9 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor.
Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

SASTI OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/48 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| 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) |
| | | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| FROM | TO | 5 | 5 | 2 | 6 | 10 | |
| 10-02-2024 | 11-02-2024 | 287 | 165 | 59 | 18 | 12 | Clear sky / calm |
| 24-02-2024 | 25-02-2024 | 284 | 165 | 58 | 14 | 10 | Clear sky / calm |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| AREA STORE BSOA2 | | | | | | | |
|--|------------|--|------------------|-------------------|-----------------|-----------------|-----------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| | | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| FROM | TO | 5 | 5 | 2 | 6 | 10 | |
| 10-02-2024 | 11-02-2024 | 249 | 147 | 48 | 14 | BDL | Clear sky / calm |
| 24-02-2024 | 25-02-2024 | 289 | 169 | 48 | 12 | BDL | Clear sky / calm |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| GOURI COLONY FILTER PLANT BSOA3 | | | | | | | |
|-----------------------------------|------------|--|-------------------|-----------------|-----------------|--|-----------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| | | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| FROM | TO | 5 | 2 | 6 | 10 | | |
| 01-02-2024 | 02-02-2024 | 65 | 32 | 10 | BDL | | Clear Sky /Calm |
| 02-02-2024 | 03-02-2024 | 69 | 28 | 14 | BDL | | Clear Sky /Calm |
| 08-02-2024 | 09-02-2024 | 74 | 34 | 12 | BDL | | Clear Sky /Calm |
| 09-02-2024 | 10-02-2024 | 76 | 35 | 12 | BDL | | Clear Sky /Calm |
| 15-02-2024 | 16-02-2024 | 75 | 29 | 10 | BDL | | Clear Sky /Calm |
| 16-02-2024 | 17-02-2024 | 69 | 39 | 12 | BDL | | Clear Sky /Calm |
| 22-02-2024 | 23-02-2024 | 72 | 34 | 14 | BDL | | Clear Sky /Calm |
| 23-02-2024 | 24-02-2024 | 70 | 36 | 15 | BDL | | Clear Sky /Calm |
| 29-02-2024 | 01-03-2024 | 68 | 39 | 15 | BDL | | Clear Sky /Calm |
| 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) |
| | | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| FROM | TO | 5 | 2 | 6 | 10 | | |
| 01-02-2024 | 02-02-2024 | 78 | 30 | 10 | BDL | | Clear Sky /Calm |
| 02-02-2024 | 03-02-2024 | 65 | 36 | 12 | BDL | | Clear Sky /Calm |
| 08-02-2024 | 09-02-2024 | 79 | 28 | 13 | BDL | | Clear Sky /Calm |
| 09-02-2024 | 10-02-2024 | 74 | 30 | 14 | BDL | | Clear Sky /Calm |
| 15-02-2024 | 16-02-2024 | 71 | 39 | 12 | BDL | | Clear Sky /Calm |
| 16-02-2024 | 17-02-2024 | 70 | 30 | 14 | BDL | | Clear Sky /Calm |
| 22-02-2024 | 23-02-2024 | 65 | 36 | 10 | BDL | | Clear Sky /Calm |
| 23-02-2024 | 24-02-2024 | 74 | 34 | 12 | BDL | | Clear Sky /Calm |
| 29-02-2024 | 01-03-2024 | 76 | 39 | 10 | BDL | | Clear Sky /Calm |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | |
|--------------------|--|
| SAMPLE DESCRIPTION | Water sample |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) |
| SAMPLING METHOD | LSOP 5 PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-02-24 TO 15-03-24 |


| MINE WATER DISCHARGE: | | BSOW1 | | |
|---|------------------|---------------|--------------|----------------|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS | | | |
| | pH | TSS (in mg/l) | COD(in mg/l) | O & G(in mg/l) |
| DETECTION LIMIT | 2 | 10 | 4 | 2 |
| 09-02-2024 | 7.74 | 36 | 40 | BDL |
| 23-02-2024 | 7.73 | 32 | 28 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |

| ETP DISCHARGE: | | BSOW2 | | |
|---|------------------|---------------|--------------|----------------|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS | | | |
| | pH | TSS (in mg/l) | COD(in mg/l) | O & G(in mg/l) |
| DETECTION LIMIT | 2 | 10 | 4 | 2 |
| 09-02-2024 | 8.35 | 64 | 36 | BDL |
| 23-02-2024 | 7.67 | 46 | 56 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |

| STP(DOMESTIC EFFLUENT)TREATED: | | BSOW3 | |
|---|------------------|--------------|--|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS | | |
| | TSS (in mg/l) | BOD(in mg/l) | |
| DETECTION LIMIT | 10 | 2 | |
| 09-02-2024 | 52 | 9 | |
| 23-02-2024 | 32 | 13.2 | |
| GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS GSR 801E EPA 1993 | 100 | 30 | |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

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

| CHP: | | BSON1 | |
|--|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 66.5 | 65.6 |
| FEB'24 | 26-02-2024 | 68.5 | 66.6 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES,2000 | | 75 | 70 |

| GOURI COLONY: | | BSON2 | |
|--|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 42.6 | 41.7 |
| FEB'24 | 26-02-2024 | 43.8 | 41.9 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES,2000 | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor. Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

SASTI UG

BALLARPUR AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | | | | |
|---|--|--|--|---|--|
| Environment Laboratory CMPDI RI-IV, NAGPUR | | Test Report | |  | |
| TEST REPORT NO. | | RIN/TR/FEB-24/49 | | DATE OF ISSUE | |
| NAME OF CUSTOMER | | GM(ENV.), WCL(HQ), NAGPUR | | | |
| TEST REQUIRED | | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | | |
| SAMPLE DESCRIPTION | | AIR SAMPLE | | SAMPLING PLAN : LQR 47 | |
| SAMPLING METHOD : LSOP 4 | | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 | |

| SAM OFFICE-DHOPTALA SUB AREA BND0A1 | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | No ₂ | So ₂ | |
| 10-02-2024 | 11-02-2024 | 289 | 170 | 52 | 16 | 11 | Clear Sky / Light Breeze |
| 25-02-2024 | 26-02-2024 | 258 | 155 | 46 | 12 | 10 | Clear Sky / Light Breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| MANAGER OFFICE-DHOPTALA OC BND0A2 | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | No ₂ | So ₂ | |
| 11-02-2024 | 12-02-2024 | 298 | 185 | 60 | 19 | 13 | Clear Sky / Light Breeze |
| 26-02-2024 | 27-02-2024 | 260 | 162 | 58 | 20 | 14 | Clear Sky / Light Breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| SASTI COLONY BSUA3 | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | No ₂ | So ₂ | |
| 10-02-2024 | 11-02-2024 | 84 | 39 | 14 | BDL | Clear Sky / Calm |
| 24-02-2024 | 25-02-2024 | 75 | 45 | 13 | BDL | Clear Sky / Calm |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |

| SASTI VILLAGE BSUA4 | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | No ₂ | So ₂ | |
| 01-02-2024 | 02-02-2024 | 78 | 30 | 10 | BDL | Clear Sky /Calm |
| 02-02-2024 | 03-02-2024 | 65 | 36 | 12 | BDL | Clear Sky /Calm |
| 08-02-2024 | 09-02-2024 | 79 | 28 | 13 | BDL | Clear Sky /Calm |
| 09-02-2024 | 10-02-2024 | 74 | 30 | 14 | BDL | Clear Sky /Calm |
| 15-02-2024 | 16-02-2024 | 71 | 39 | 12 | BDL | Clear Sky /Calm |
| 16-02-2024 | 17-02-2024 | 70 | 30 | 14 | BDL | Clear Sky /Calm |
| 22-02-2024 | 23-02-2024 | 65 | 36 | 10 | BDL | Clear Sky /Calm |
| 23-02-2024 | 24-02-2024 | 74 | 34 | 12 | BDL | Clear Sky /Calm |
| 29-02-2024 | 01-03-2024 | 76 | 39 | 10 | BDL | Clear Sky /Calm |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

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

| FAN HOUSE: | | BSUN1 | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 45.7 | 44.8 |
| FEB'24 | 26-02-2024 | 43.7 | 42.8 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| SASTI COLONY: | | BSUN2 | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 44.8 | 43.9 |
| FEB'24 | 26-02-2024 | 44.1 | 43.8 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



वसुधैव कुटुम्बकम्
ONE EARTH • ONE FAMILY • ONE FUTURE

STRICTLY RESTRICTED
FOR COMPANY USE ONLY

The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

BHATADI OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEBRUARY-24/31 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| BHATADI SECURITY POST CBOA1 | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| | | 5 | 5 | 2 | 6 | 10 | |
| 01-02-2024 | 02-02-2024 | 352 | 206 | 55 | 35 | 26 | Clear Sky/Light Breeze |
| 17-02-2024 | 18-02-2024 | 330 | 193 | 52 | 30 | 23 | Clear Sky/Light Breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| BHATADI MANAGER OFFICE CBOA2 | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| | | 5 | 5 | 2 | 6 | 10 | |
| 01-02-2024 | 02-02-2024 | 326 | 179 | 52 | 28 | 22 | Clear Sky/Light Breeze |
| 16-02-2024 | 17-02-2024 | 313 | 160 | 47 | 25 | 20 | Clear Sky/Light Breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |


| BHATADI VILLAGE CBOA3 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|-------------------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| | | 5 | 2 | 6 | 10 | | |
| 02-02-2024 | 03-02-2024 | 80 | 32 | 24 | 17 | Cloudy Sky/Light Breeze | |
| 16-02-2024 | 17-02-2024 | 73 | 24 | 19 | 12 | Clear Sky/Light Breeze | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| VADHOLI VILLAGE CBOA4 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|-------------------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| | | 5 | 2 | 6 | 10 | | |
| 02-02-2024 | 03-02-2024 | 82 | 28 | 22 | 16 | Cloudy Sky/Light Breeze | |
| 17-02-2024 | 18-02-2024 | 77 | 25 | 19 | 14 | Clear Sky/Light Breeze | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| BHATADI COLONY CBOA5 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|-------------------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| | | 5 | 2 | 6 | 10 | | |
| 01-02-2024 | 02-02-2024 | 78 | 30 | 23 | 15 | Cloudy Sky/Light Breeze | |
| 17-02-2024 | 18-02-2024 | 75 | 24 | 21 | 13 | Clear Sky/Light Breeze | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |



Analysed by

| | | | | |
|---|--|---|--|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | | Test Report | |  |
| SAMPLE DESCRIPTION | Water sample | | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES : | | 16-02-24 TO 15-03-24 |

| 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 |
| 02.02.2024 | 8.16 | 35 | 40 | BDL |
| 16.02.2024 | 7.85 | 26 | 32 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |

| ETP DISCHARGE: CBOW2 | | | | |
|---|------------------|---------------|--------------|----------------|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS | | | |
| | pH | TSS (in mg/l) | COD(in mg/l) | O & G(in mg/l) |
| DETECTION LIMIT | 2 | 10 | 4 | 2 |
| 02.02.2024 | 7.74 | 29 | 32 | BDL |
| 16.02.2024 | 7.53 | 33 | 36 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |

| STP(DOMESTIC EFFLUENT)TREATED: CBOW3 | | |
|---|------------------|--------------|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS | |
| | TSS (in mg/l) | BOD(in mg/l) |
| DETECTION LIMIT | 10 | 2 |
| 02.02.2024 | 30 | 8.4 |
| 16.02.2024 | 27 | 9.0 |
| GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS GSR 801E EPA 1993 | 100 | 30 |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

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

| CHP: CBON1 | | | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 06-02-2024 | 66.5 | 65.6 |
| FEB'24 | 22-02-2024 | 68.8 | 66.6 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| COLONY: CBON2 | | | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 06-02-2024 | 43.6 | 42.7 |
| FEB'24 | 22-02-2024 | 43.8 | 42.9 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

CRC UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|--|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  TC-7102 |
|---|--------------------|--|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEBRUARY-24/32 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| MANAGER OFFICE MAHAKALI UG CMKUA1 | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| | | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| FROM | TO | 5 | 5 | 2 | 6 | 10 | |
| 04-02-2024 | 05-02-2024 | 309 | 167 | 51 | 25 | 20 | Clear Sky/Light Breeze |
| 19-02-2024 | 20-02-2024 | 298 | 160 | 47 | 23 | 18 | Clear Sky/Light Breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |


| CRC SUBSTATION/ FILTER PLANT CCRUA2 | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| | | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| FROM | TO | 5 | 5 | 2 | 6 | 10 | |
| 04-02-2024 | 05-02-2024 | 318 | 173 | 53 | 29 | 21 | Clear Sky/Light Breeze |
| 19-02-2024 | 20-02-2024 | 300 | 160 | 43 | 26 | 19 | Clear Sky/Light Breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| JATWARA MILK SCHEME CCRUA3 | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| | | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| FROM | TO | 5 | 5 | 2 | 6 | 10 | |
| 05-02-2024 | 06-02-2024 | 267 | 158 | 45 | 21 | 12 | Clear Sky/Light Breeze |
| 20-02-2024 | 21-02-2024 | 278 | 162 | 47 | 24 | 15 | Clear Sky/Light Breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| COLONY (MAHAKALI UG) CMKUA2 | | | | | | | |
|-----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|--|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) | |
| | | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| FROM | TO | 5 | 2 | 6 | 10 | | |
| 04-02-2024 | 05-02-2024 | 70 | 20 | 15 | 12 | Clear Sky/Light Breeze | |
| 19-02-2024 | 20-02-2024 | 74 | 24 | 14 | 10 | Clear Sky/Light Breeze | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

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

| CHP: CCRUN1 | | NOISE LEVEL IN dB(A) | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | DAY TIME | NIGHT TIME |
| | | DETECTION LIMIT | 20 |
| FEB'24 | 06-02-2024 | 63.8 | 61.9 |
| FEB'24 | 22-02-2024 | 62.8 | 61.9 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| COLONY: CCRUN2 | | NOISE LEVEL IN dB(A) | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | DAY TIME | NIGHT TIME |
| | | DETECTION LIMIT | 20 |
| FEB'24 | 06-02-2024 | 43.9 | 42.5 |
| FEB'24 | 22-02-2024 | 43.8 | 42.9 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated
either directly or indirectly to the press or to any person not
holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

DRC UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEBRUARY-24/33 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| PIT OFFICE-DRC- III UG CDRUA1 | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| | | 5 | 5 | 2 | 6 | 10 | |
| 04-02-2024 | 05-02-2024 | 296 | 172 | 51 | 25 | 20 | Clear Sky/Light Breeze |
| 19-02-2024 | 20-02-2024 | 288 | 161 | 47 | 23 | 19 | Clear Sky/Light Breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| NEHRU NAGAR- SUBSTATION CDRUA2 | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| | | 5 | 5 | 2 | 6 | 10 | |
| 03-02-2024 | 04-02-2024 | 297 | 164 | 49 | 26 | 17 | Clear Sky/Light Breeze |
| 18-02-2024 | 19-02-2024 | 285 | 158 | 44 | 21 | 15 | Clear Sky/Light Breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| DRC- V COLONY CDRUA3 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| | | 5 | 2 | 6 | 10 | | |
| 03-02-2024 | 04-02-2024 | 76 | 24 | 17 | 12 | | Clear Sky/Light Breeze |
| 18-02-2024 | 19-02-2024 | 73 | 20 | 14 | 10 | | Clear Sky/Light Breeze |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| PIT OFFICE DRC-IV CDRUA4 | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| | | 5 | 5 | 2 | 6 | 10 | |
| 03-02-2024 | 04-02-2024 | 290 | 165 | 50 | 27 | 23 | Clear Sky/Light Breeze |
| 18-02-2024 | 19-02-2024 | 285 | 158 | 45 | 22 | 17 | Clear Sky/Light Breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |



Analysed by


| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|---|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES : | 16-02-24 TO 15-03-24 |

| 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 |
| 04.02.2024 | 8.01 | 20 | 24 | BDL |
| 18.02.2024 | 7.54 | 26 | 32 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25- 09-2000 | 5.5 - 9.0 | 100 | 250 | 10 |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

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

| FAN HOUSE: CDRUN1 | | | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 06-02-2024 | 67.7 | 66.8 |
| FEB'24 | 22-02-2024 | 69.7 | 68.8 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| DURGAPUR COLONY: CDRUN2 | | | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 06-02-2024 | 42.7 | 41.8 |
| FEB'24 | 22-02-2024 | 43.7 | 41.8 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratr activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

DURGAPUR OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEBRUARY-24/34 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| MANAGER OFFICE-SECTOR V CDOA1 | | | | | | | |
|--|------------|---|------------------|-------------------|-----------------|-----------------|-----------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in µg/m ³) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 03-02-2024 | 04-02-2024 | 328 | 181 | 53 | 39 | 27 | Clear Sky/Calm |
| 17-02-2024 | 18-02-2024 | 310 | 168 | 50 | 30 | 21 | Clear Sky/Calm |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| DURGAPUR VILLAGE CDOA2 | | | | | | | |
|----------------------------|------------|---|-------------------|-----------------|-----------------|----------------|-----------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in µg/m ³) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 01-02-2024 | 02-02-2024 | 82 | 33 | 24 | 16 | Clear Sky/Calm | |
| 02-02-2024 | 03-02-2024 | 77 | 26 | 22 | 19 | Clear Sky/Calm | |
| 08-02-2024 | 09-02-2024 | 83 | 36 | 25 | 20 | Clear Sky/Calm | |
| 09-02-2024 | 10-02-2024 | 78 | 30 | 21 | 14 | Clear Sky/Calm | |
| 15-02-2024 | 16-02-2024 | 75 | 24 | 20 | 17 | Clear Sky/Calm | |
| 16-02-2024 | 17-02-2024 | 81 | 35 | 24 | 15 | Clear Sky/Calm | |
| 22-02-2024 | 23-02-2024 | 76 | 32 | 23 | 18 | Clear Sky/Calm | |
| 23-02-2024 | 24-02-2024 | 79 | 33 | 21 | 17 | Clear Sky/Calm | |
| 29-02-2024 | 01-03-2024 | 74 | 25 | 16 | 13 | Clear Sky/Calm | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| MANAGER OFFICE Q-IV CDOA3 (Durgapur OC) | | | | | | | |
|--|------------|---|------------------|-------------------|-----------------|-----------------|-----------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in µg/m ³) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 03-02-2024 | 04-02-2024 | 339 | 189 | 56 | 37 | 25 | Clear Sky/Calm |
| 17-02-2024 | 18-02-2024 | 320 | 170 | 51 | 32 | 22 | Clear Sky/Calm |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| FILTER PLANT DOC/POC COLONY CDOA4 | | | | | | | |
|-------------------------------------|------------|---|-------------------|-----------------|-----------------|----------------|-----------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in µg/m ³) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 01-02-2024 | 02-02-2024 | 85 | 36 | 29 | 21 | Clear Sky/Calm | |
| 02-02-2024 | 03-02-2024 | 83 | 33 | 27 | 23 | Clear Sky/Calm | |
| 08-02-2024 | 09-02-2024 | 78 | 27 | 24 | 17 | Clear Sky/Calm | |
| 09-02-2024 | 10-02-2024 | 84 | 35 | 25 | 20 | Clear Sky/Calm | |
| 15-02-2024 | 16-02-2024 | 79 | 30 | 27 | 21 | Clear Sky/Calm | |
| 16-02-2024 | 17-02-2024 | 86 | 37 | 30 | 24 | Clear Sky/Calm | |
| 22-02-2024 | 23-02-2024 | 81 | 32 | 26 | 22 | Clear Sky/Calm | |
| 23-02-2024 | 24-02-2024 | 80 | 32 | 23 | 19 | Clear Sky/Calm | |
| 29-02-2024 | 01-03-2024 | 77 | 29 | 22 | 16 | Clear Sky/Calm | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |



Analysed by

| | | |
|---|--------------------|--|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|--|

| | | | |
|--------------------|--|---|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES : | 16-02-24 TO 15-03-24 |

| 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 |
| 10-02-2024 | 7.65 | 23 | 28 | BDL |
| 24-02-2024 | 8.14 | 29 | 36 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |

| MINE WATER DISCHARGE Q-V CDOW2 | | | | |
|---|------------------|---------------|--------------|----------------|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS | | | |
| | pH | TSS (in mg/l) | COD(in mg/l) | O & G(in mg/l) |
| DETECTION LIMIT | 2 | 10 | 4 | 2 |
| 10-02-2024 | 2.91 | 30 | 40 | BDL |
| 24-02-2024 | 2.85 | 26 | 32 | 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 |
| 10-02-2024 | 7.72 | 20 | 24 | BDL |
| 24-02-2024 | 8.01 | 28 | 32 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |

| STP(DOMESTIC EFFLUENT): CDOW4 | | |
|---|------------------|--------------|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS | |
| | TSS (in mg/l) | BOD(in mg/l) |
| DETECTION LIMIT | 10 | 2 |
| 10-02-2024 | 26 | 9.0 |
| 24-02-2024 | 30 | 7.8 |
| GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS GSR 801E EPA 1993 | 100 | 30 |



Analysed by

| | | |
|---|--------------------|--|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|--|

NOISE LEVEL MONITORING DATA

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

| CHP: | | CDON1 | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | NIGHT TIME |
| FEB'24 | 06-02-2024 | 65.6 | 64.7 |
| FEB'24 | 22-02-2024 | 63.6 | 62.7 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| DURGAPUR COLONY: | | CDON2 | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | NIGHT TIME |
| FEB'24 | 06-02-2024 | 42.7 | 41.8 |
| FEB'24 | 22-02-2024 | 43.7 | 41.8 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.
***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the
CIL / Government

ENVIRONMENTAL MONITORING REPORT

HLP OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEBRUARY-24/35 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| MANAGER OFFICE (NANDGAON UG) CNUA1 | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| | | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| FROM | TO | 5 | 5 | 2 | 6 | 10 | |
| 07-02-2024 | 08-02-2024 | 308 | 164 | 50 | 24 | 19 | Clear Sky/Light Breeze |
| 22-02-2024 | 23-02-2024 | 296 | 154 | 43 | 20 | 15 | Clear Sky/Light Breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| MANAGER OFFICE(HLP OC) CHOAZ | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| | | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| FROM | TO | 5 | 5 | 2 | 6 | 10 | |
| 06-02-2024 | 07-02-2024 | 351 | 181 | 57 | 33 | 23 | Clear Sky/Light Breeze |
| 21-02-2024 | 22-02-2024 | 340 | 170 | 50 | 28 | 20 | Clear Sky/Light Breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| MANA VILLAGE CMUA3 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) | |
| | | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| FROM | TO | 5 | 2 | 6 | 10 | | |
| 07-02-2024 | 08-02-2024 | 71 | 20 | 17 | 10 | 10 | Clear Sky/Light Breeze |
| 22-02-2024 | 23-02-2024 | 75 | 25 | 19 | 15 | 15 | Clear Sky/Light Breeze |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | 80 | |

| COLONY (NANDGAON) CNUA4 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) | |
| | | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| FROM | TO | 5 | 2 | 6 | 10 | | |
| 07-02-2024 | 08-02-2024 | 77 | 24 | 16 | 12 | 12 | Clear Sky/Light Breeze |
| 22-02-2024 | 23-02-2024 | 70 | 21 | 13 | 10 | 10 | Clear Sky/Light Breeze |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | 80 | |

| VTC CHOAZ | | | | | | | |
|----------------------------|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| | | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| FROM | TO | 5 | 5 | 2 | 6 | 10 | |
| 07-02-2024 | 08-02-2024 | 310 | 158 | 47 | 30 | 20 | Clear Sky/Light Breeze |
| 22-02-2024 | 23-02-2024 | 298 | 140 | 41 | 25 | 18 | Clear Sky/Light Breeze |
| NAAQS, 2009 | | 600 | 300 | 60 | 120 | 120 | |



Analysed by


| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|---|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES : | 16-02-24 TO 15-03-24 |

| 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 |
| 05.02.2024 | 7.45 | 34 | 40 | BDL |
| 20.02.2024 | 7.73 | 31 | 36 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

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

| CHP | | CHON1 | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 06-02-2024 | 67.6 | 66.7 |
| FEB'24 | 22-02-2024 | 65.6 | 64.7 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| COLONY HLP: | | CHON2 | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 06-02-2024 | 44.7 | 43.8 |
| FEB'24 | 22-02-2024 | 42.7 | 41.8 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laborat activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated
either directly or indirectly to the press or to any person not holding
an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

HLP-I & III UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------------|--|----------------------|------------|
| TEST REPORT NO. | RIN/TR/FEBRUARY-24/37 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 | |

| SUBSTATION HLC I UG CHUA1 | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 05-02-2024 | 06-02-2024 | 309 | 182 | 54 | 28 | 23 | Clear Sky/Light Breeze |
| 20-02-2024 | 21-02-2024 | 301 | 175 | 52 | 24 | 20 | Clear Sky/Light Breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| PIT OFFICE - HLC-I INCLINE CHUA2 | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 05-02-2024 | 06-02-2024 | 306 | 177 | 49 | 26 | 17 | Clear Sky/Light Breeze |
| 20-02-2024 | 21-02-2024 | 294 | 168 | 44 | 23 | 14 | Clear Sky/Light Breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| HLC-III COLONY CHUA3 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|--|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) | |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 05-02-2024 | 06-02-2024 | 76 | 23 | 20 | 14 | Clear Sky/Light Breeze | |
| 20-02-2024 | 21-02-2024 | 71 | 20 | 16 | 10 | Clear Sky/Light Breeze | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| RAJIV GANDHI ENGG. COLLEGE CHUA4 | | | | | | | |
|------------------------------------|------------|--|-------------------|-----------------|-----------------|------------------------|--|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | Rainy/Windy | |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 06-02-2024 | 07-02-2024 | 74 | 25 | 17 | 13 | Clear Sky/Light Breeze | |
| 21-02-2024 | 22-02-2024 | 70 | 22 | 21 | 16 | Clear Sky/Light Breeze | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|---|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES : | 16-02-24 TO 15-03-24 |

| 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 |
| 05.02.2024 | 7.62 | 27 | 36 | BDL |
| 20.02.2024 | 7.37 | 22 | 28 | 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 |
| 05.02.2024 | 7.58 | 23 | 28 | BDL |
| 20.02.2024 | 7.05 | 29 | 32 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

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

| FAN HOUSE-I: | | CHUN1 | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 06-02-2024 | 67.9 | 66.5 |
| FEB'24 | 22-02-2024 | 68.8 | 66.6 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| COLONY: | | CHUN2 | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 06-02-2024 | 43.5 | 42.6 |
| FEB'24 | 22-02-2024 | 43.5 | 42.8 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in theCIL / Government

ENVIRONMENTAL MONITORING REPORT

MAHAKALI UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068




FEBRUARY 2024



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

AN ISO 9001:2015 COMPANY



| | | | | | |
|---|--|--------------------|------------|---|--|
| Environment Laboratory CMPDI RI-IV, NAGPUR | | Test Report | |  | |
| TEST REPORT NO. | RIN/TR/FEBRUARY-24/37 | DATE OF ISSUE | 28-03-2024 | | |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | | LQR 47 | |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | | 16-02-24 TO 15-03-24 | |

| MANAGER OFFICE MAHAKALI UG CMKUA1 | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| | | 5 | 5 | 2 | 6 | 10 | |
| 04-02-2024 | 05-02-2024 | 309 | 167 | 51 | 25 | 20 | Clear Sky/Light Breeze |
| 19-02-2024 | 20-02-2024 | 298 | 160 | 47 | 23 | 18 | Clear Sky/Light Breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |


| CRC SUBSTATION/ FILTER PLANT CCRUA2 | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| | | 5 | 5 | 2 | 6 | 10 | |
| 04-02-2024 | 05-02-2024 | 318 | 173 | 53 | 29 | 21 | Clear Sky/Light Breeze |
| 19-02-2024 | 20-02-2024 | 300 | 160 | 43 | 26 | 19 | Clear Sky/Light Breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| JATWARA MILK SCHEME CCRUA3(C.R.C-U/G) | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| | | 5 | 5 | 2 | 6 | 10 | |
| 05-02-2024 | 06-02-2024 | 267 | 158 | 45 | 21 | 12 | Clear Sky/Light Breeze |
| 20-02-2024 | 21-02-2024 | 278 | 162 | 47 | 24 | 15 | Clear Sky/Light Breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| COLONY (MAHAKALI UG) CMKUA2 | | | | | | | |
|-------------------------------|------------|--|-------------------|-----------------|-----------------|------------------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| | | 5 | 2 | 6 | 10 | | |
| 04-02-2024 | 05-02-2024 | 70 | 20 | 15 | 12 | Clear Sky/Light Breeze | |
| 19-02-2024 | 20-02-2024 | 74 | 24 | 14 | 10 | Clear Sky/Light Breeze | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |



Analysed by

| | | | | |
|---|--|---|--|--|
| Environment Laboratory CMPDI RI-IV, NAGPUR | | Test Report | |  |
| SAMPLE DESCRIPTION | Water sample | | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES : | | 16-02-24 TO 15-03-24 |

| MINE WATER DISCHARGE: CMKUW1 | | | | |
|---|------------------|---------------|--------------|----------------|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS | | | |
| | pH | TSS (in mg/l) | COD(in mg/l) | O & G(in mg/l) |
| DETECTION LIMIT | 2 | 10 | 4 | 2 |
| 04.02.2024 | 8.27 | 23 | 32 | BDL |
| 18.02.2024 | 8.04 | 19 | 24 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |



Analysed by

| | | |
|---|--------------------|--|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|--|

NOISE LEVEL MONITORING DATA

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

| FAN HOUSE: CMKUN1 | | | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 06-02-2024 | 67.5 | 66.6 |
| FEB'24 | 22-02-2024 | 68.5 | 67.6 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| COLONY(MAHAKALI): CMKUN2 | | | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 06-02-2024 | 42.6 | 41.7 |
| FEB'24 | 22-02-2024 | 43.6 | 42.7 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.
***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

MANA UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEBRUARY-24/38 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| MANAGER OFFICE CMUA1 | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| | | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| FROM | TO | 5 | 5 | 2 | 6 | 10 | |
| 06-02-2024 | 07-02-2024 | 294 | 168 | 48 | 25 | 21 | Clear Sky/Light Breeze |
| 21-02-2024 | 22-02-2024 | 284 | 158 | 46 | 21 | 16 | Clear Sky/Light Breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| SUBSTATION MANA INCLINE CMUA2 | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| | | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| FROM | TO | 05-01-1900 | 5 | 2 | 6 | 10 | |
| 07-02-2024 | 08-02-2024 | 316 | 167 | 47 | 24 | 20 | Clear Sky/Light Breeze |
| 22-02-2024 | 23-02-2024 | 324 | 174 | 51 | 29 | 24 | Clear Sky/Light Breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| COLONY (NANDGAON) CNUA2 | | | | | | | |
|----------------------------------|------------|--|-------------------|-----------------|-----------------|------------------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| | | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| FROM | TO | 5 | 2 | 6 | 10 | | |
| 07-02-2024 | 08-02-2024 | 77 | 24 | 16 | 12 | Clear Sky/Light Breeze | |
| 22-02-2024 | 23-02-2024 | 70 | 21 | 13 | 10 | Clear Sky/Light Breeze | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| MANA VILLAGE CMUA3 | | | | | | | |
|-----------------------------|------------|--|-------------------|-----------------|-----------------|------------------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| | | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| FROM | TO | 5 | 2 | 6 | 10 | | |
| 07-02-2024 | 08-02-2024 | 71 | 20 | 17 | 10 | Clear Sky/Light Breeze | |
| 22-02-2024 | 23-02-2024 | 75 | 25 | 19 | 15 | Clear Sky/Light Breeze | |
| | | 100 | 60 | 80 | 80 | | |



Analysed by


| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|---|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES : | 16-02-24 TO 15-03-24 |

| 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 |
| 06.02.2024 | 7.83 | 22 | 28 | BDL |
| 21.02.2024 | 7.67 | 27 | 32 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

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

| FAN HOUSE: CMUN1 | | NOISE LEVEL IN dB(A) | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | DAY TIME | NIGHT TIME |
| | | DETECTION LIMIT | 20 |
| FEB'24 | 06-02-2024 | 63.9 | 62.5 |
| FEB'24 | 22-02-2024 | 64.8 | 63.5 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| COLONY(HLP OC): CHON2 | | NOISE LEVEL IN dB(A) | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | DAY TIME | NIGHT TIME |
| | | DETECTION LIMIT | 20 |
| FEB'24 | 06-02-2024 | 44.7 | 43.8 |
| FEB'24 | 22-02-2024 | 42.7 | 41.8 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

NANDGAON UG

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------------|--|----------------------|------------|
| TEST REPORT NO. | RIN/TR/FEBRUARY-24/39 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 | |

| MANAGER OFFICE NANDGAON UG | | CNUA1 | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 07-02-2024 | 08-02-2024 | 308 | 164 | 50 | 24 | 19 | Clear Sky/Light Breeze |
| 22-02-2024 | 23-02-2024 | 296 | 154 | 43 | 20 | 15 | Clear Sky/Light Breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| SUBSTATION MANA INCLINE | | CMUA2 | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 07-02-2024 | 08-02-2024 | 316 | 167 | 47 | 24 | 20 | Clear Sky/Light Breeze |
| 22-02-2024 | 23-02-2024 | 324 | 174 | 51 | 29 | 24 | Clear Sky/Light Breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| MANA VILLAGE | | CMUA4 | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 07-02-2024 | 08-02-2024 | 71 | 20 | 17 | 10 | Clear Sky/Light Breeze |
| 22-02-2024 | 23-02-2024 | 75 | 25 | 19 | 15 | Clear Sky/Light Breeze |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |

| COLONY (NANDGAON) | | CNUA2 | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 07-02-2024 | 08-02-2024 | 77 | 24 | 16 | 12 | Clear Sky/Light Breeze |
| 22-02-2024 | 23-02-2024 | 70 | 21 | 13 | 10 | Clear Sky/Light Breeze |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|---|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES : | 16-02-24 TO 15-03-24 |

| 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 |
| 07.02.2024 | 7.34 | 28 | 36 | BDL |
| 22.02.2024 | 7.81 | 20 | 28 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

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

| FAN HOUSE: | | CNUN1 | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 06-02-2024 | 66.8 | 65.9 |
| FEB'24 | 22-02-2024 | 68.8 | 66.9 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| COLONY HLP OC: | | CHON2 | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 06-02-2024 | 44.7 | 43.8 |
| FEB'24 | 22-02-2024 | 42.7 | 41.8 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

PADMAPUR OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEBRUARY-24/40 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| 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) |
| | | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| FROM | TO | 5 | 5 | 2 | 6 | 10 | |
| 02-02-2024 | 03-02-2024 | 347 | 202 | 53 | 33 | 24 | Cloudy Sky/Light Breeze |
| 17-02-2024 | 18-02-2024 | 326 | 184 | 49 | 27 | 20 | Clear Sky/Light Breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| WARWAT VILLAGE CPOA2 | | | | | | | |
|-----------------------------|------------|--|-------------------|-----------------|-----------------|--|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| | | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| FROM | TO | 5 | 2 | 6 | 10 | | |
| 03-02-2024 | 04-02-2024 | 81 | 26 | 19 | 15 | | Clear Sky/Light Breeze |
| 18-02-2024 | 19-02-2024 | 77 | 21 | 16 | 10 | | Clear Sky/Light Breeze |
| 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) |
| | | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| FROM | TO | 5 | 2 | 6 | 10 | | |
| 02-02-2024 | 03-02-2024 | 84 | 29 | 20 | 14 | | Clear Sky/Light Breeze |
| 17-02-2024 | 18-02-2024 | 80 | 24 | 17 | 11 | | Clear Sky/Light Breeze |
| 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) |
| | | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| FROM | TO | 5 | 2 | 6 | 10 | | |
| 01-02-2024 | 02-02-2024 | 84 | 31 | 23 | 15 | | Clear Sky/Light Breeze |
| 16-02-2024 | 17-02-2024 | 80 | 26 | 17 | 12 | | Clear Sky/Light Breeze |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

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

| CHP: | | CPON1 | |
|--|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | NIGHT TIME |
| FEB'24 | 06-02-2024 | 62.8 | 61.9 |
| FEB'24 | 22-02-2024 | 63.8 | 61.8 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| DURGAPUR COLONY: | | CDON2 | |
|--|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | NIGHT TIME |
| FEB'24 | 06-02-2024 | 42.7 | 41.8 |
| FEB'24 | 22-02-2024 | 43.7 | 41.8 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in theCIL / Government

ENVIRONMENTAL MONITORING REPORT

NEW MAJRI-II(A) OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068




FEBRUARY 2024



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

AN ISO 9001:2015 COMPANY



| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/51 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| NMOC SUBSTATION MMOA1 | | | | | | | |
|--|------------|--|------------------|-------------------|-----------------|-----------------|-----------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 06-02-2024 | 07-02-2024 | 358 | 220 | 78 | 22 | 18 | CLEAR/ MODERATE BREEZE |
| 21-02-2024 | 22-02-2024 | 390 | 212 | 66 | 18 | 14 | CLEAR/ CALM |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |


| PATALA MAGAZINE MMUA1 | | | | | | | |
|--|------------|--|------------------|-------------------|-----------------|-----------------|-----------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 01-02-2024 | 02-02-2024 | 370 | 204 | 69 | 20 | 16 | CLEAR/ LIGHT BREEZE |
| 16-02-2024 | 17-02-2024 | 406 | 202 | 68 | 22 | 18 | CLEAR/ LIGHT BREEZE |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| PRIMARY HEALTH CENTRE, MAJRI BASTI MMOA3 | | | | | | | |
|--|------------|--|-------------------|-----------------|-----------------|----|-----------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 06-02-2024 | 07-02-2024 | 106 | 56 | 14 | 10 | 10 | CLEAR SKY/MODERATE BREEZE |
| 07-02-2024 | 08-02-2024 | 104 | 48 | 16 | 14 | 14 | CLOUDY SKY/LIGHT BREEZE |
| 13-02-2024 | 14-02-2024 | 80 | 50 | 20 | 16 | 16 | CLEAR SKY/LIGHT BREEZE |
| 14-02-2024 | 15-02-2024 | 88 | 54 | 18 | 14 | 14 | CLEAR SKY/MODERATE BREEZE |
| 20-02-2024 | 21-02-2024 | 90 | 58 | 17 | 13 | 13 | CLEAR SKY/ CALM |
| 21-02-2024 | 22-02-2024 | 98 | 60 | 18 | 14 | 14 | CLEAR SKY/ CALM |
| 27-02-2024 | 28-02-2024 | 99 | 68 | 20 | 16 | 16 | CLEAR SKY/ CALM |
| 28-02-2024 | 29-02-2024 | 110 | 58 | 20 | 15 | 15 | CLEAR SKY/ CALM |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | 80 | |

| KUCHANA COLONY MMOA4 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|----|-----------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 06-02-2024 | 07-02-2024 | 100 | 50 | 18 | 14 | 14 | CLEAR SKY/MODERATE BREEZE |
| 07-02-2024 | 08-02-2024 | 76 | 52 | 18 | 14 | 14 | CLOUDY SKY/LIGHT BREEZE |
| 13-02-2024 | 14-02-2024 | 94 | 48 | 16 | 12 | 12 | CLEAR SKY/LIGHT BREEZE |
| 14-02-2024 | 15-02-2024 | 70 | 38 | 15 | 11 | 11 | CLEAR SKY/MODERATE BREEZE |
| 20-02-2024 | 21-02-2024 | 88 | 56 | 16 | 14 | 14 | CLEAR SKY/ CALM |
| 21-02-2024 | 22-02-2024 | 100 | 58 | 17 | 12 | 12 | CLEAR SKY/ CALM |
| 27-02-2024 | 28-02-2024 | 80 | 52 | 20 | 14 | 14 | CLEAR SKY/ CALM |
| 28-02-2024 | 29-02-2024 | 92 | 50 | 16 | 14 | 14 | CLEAR SKY/ CALM |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | 80 | |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | |
|--------------------|--|----------------------|
| SAMPLE DESCRIPTION | Water sample | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | |
| SAMPLING METHOD | LSOP 5 PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 |

| MINE WATER DISCHARGE: MMOW1 | | | | |
|---|-----------|---------------|--------------|----------------|
| DATE OF SAMPLE COLLECTION | pH | TSS (in mg/l) | COD(in mg/l) | O & G(in mg/l) |
| DETECTION LIMIT | 2 | 10 | 4 | 2 |
| 13-02-2024 | 7.56 | 50 | 40 | BDL |
| 27-02-2024 | 7.10 | 48 | 28 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |


| ETP: MMOW2 | | | | |
|---|-----------|---------------|--------------|----------------|
| DATE OF SAMPLE COLLECTION | pH | TSS (in mg/l) | COD(in mg/l) | O & G(in mg/l) |
| DETECTION LIMIT | 2 | 10 | 4 | 2 |
| 13-02-2024 | 7.45 | 48 | 52 | BDL |
| 27-02-2024 | 7.78 | 36 | 32 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |

| ETP: MAJRI AREA HOSPITAL | | | | |
|---|-----------|---------------|--------------|----------------|
| DATE OF SAMPLE COLLECTION | pH | TSS (in mg/l) | COD(in mg/l) | O & G(in mg/l) |
| DETECTION LIMIT | 2 | 10 | 4 | 2 |
| 14-02-2024 | 7.22 | 38 | 60 | BDL |
| 29-02-2024 | 6.88 | 34 | 56 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |
| GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS GSR 801E EPA 1993 | | 100 | | 30 |

| STP: MMUW3 | | | |
|---|---------------|--------------|--|
| DATE OF SAMPLE COLLECTION | TSS (in mg/l) | BOD(in mg/l) | |
| DETECTION LIMIT | 10 | 2 | |
| 13-02-2024 | 32 | 14.4 | |
| 27-02-2024 | 28 | 13.2 | |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 100 | 30 | |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

| | |
|--------------------|--|
| SAMPLE DESCRIPTION | NOISE SAMPLE |
| Test Required | CPCB PRNOVOCOL FOR AMBIENT NOISE MEASUREMENT, AUG-2015 |
| SAMPLING METHOD | LSOP 6 |

| FIELD MINE SHED: | | MMON1 | |
|--|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | NIGHT TIME |
| FEB'24 | 13-02-2024 | 56.5 | 54.3 |
| FEB'24 | 26-02-2024 | 59.4 | 56.6 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| KUCHNA COLONY: | | MMON2 | |
|--|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | NIGHT TIME |
| FEB'24 | 13-02-2024 | 45.1 | 43.4 |
| FEB'24 | 26-02-2024 | 45.4 | 43.4 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

NEW MAJRI UG TO OC

MAJRI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|-------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/50 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | No ₂ | So ₂ | |
| 01-02-2024 | 02-02-2024 | 370 | 204 | 69 | 20 | 16 | CLEAR / LIGHT BREEZE |
| 16-02-2024 | 17-02-2024 | 406 | 202 | 68 | 22 | 18 | CLEAR / LIGHT BREEZE |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | No ₂ | So ₂ | |
| 01-02-2024 | 02-02-2024 | 410 | 220 | 86 | 22 | 18 | CLEAR / LIGHT BREEZE |
| 16-02-2024 | 17-02-2024 | 389 | 208 | 96 | 20 | 16 | CLEAR / LIGHT BREEZE |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | No ₂ | So ₂ | |
| 01-02-2024 | 02-02-2024 | 400 | 236 | 75 | 21 | 14 | CLEAR / LIGHT BREEZE |
| 16-02-2024 | 17-02-2024 | 376 | 198 | 60 | 15 | 12 | CLEAR / LIGHT BREEZE |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|
| FROM | TO | PM ₁₀ | PM _{2.5} | No ₂ | So ₂ | |
| 01-02-2024 | 02-02-2024 | 90 | 54 | 17 | 13 | CLEAR / LIGHT BREEZE |
| 16-02-2024 | 17-02-2024 | 100 | 54 | 16 | 13 | CLEAR / LIGHT BREEZE |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|--|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 |

| 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 |
| 01-02-2024 | 7.67 44 56 BDL |
| 16-02-2024 | 7.08 30 36 BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 100 250 10 |

| ETP: MMUW2 | |
|---|---|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS |
| | pH TSS (in mg/l) COD(in mg/l) O & G(in mg/l) |
| DETECTION LIMIT | 2 10 4 2 |
| 01-02-2024 | 7.32 40 32 BDL |
| 16-02-2024 | 7.92 42 52 BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 100 250 10 |

| STP: MMUW3 | |
|---|---------------------------------|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS |
| | TSS (in mg/l) BOD(in mg/l) |
| DETECTION LIMIT | 10 2 |
| 01-02-2024 | 30 16.8 |
| 16-02-2024 | 38 15.6 |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 100 30 |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

| | |
|--------------------|--|
| SAMPLE DESCRIPTION | NOISE SAMPLE |
| Test Required | CPCB PRNOVOCOL FOR AMBIENT NOISE MEASUREMENT, AUG-2015 |
| SAMPLING METHOD | LSOP 6 |

| PIT OFFICE: | | MMUN1 | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | NIGHT TIME |
| FEB'24 | 13-02-2024 | 57.6 | 55.4 |
| FEB'24 | 26-02-2024 | 56.4 | 54.1 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| COLONY(MAJRI UG TO OC): | | MMUN2 | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | NIGHT TIME |
| FEB'24 | 13-02-2024 | 45.4 | 44.2 |
| FEB'24 | 26-02-2024 | 45.4 | 43.5 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



संयुक्त राष्ट्रसंघ
ONE EARTH - ONE FAMILY - ONE FUTURE

STRICTLY RESTRICTED
FOR COMPANY USE ONLY

The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

YEKONA I & II OC

MAJRI AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/52 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| 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 ₁₀ | PM _{2.5} | NO ₂ | | SO ₂ |
| 06-02-2024 | 07-02-2024 | 396 | 242 | 79 | 20 | 16 | CLEAR/MODERATE BREEZE |
| 21-02-2024 | 22-02-2024 | 394 | 236 | 67 | 24 | 20 | CLEAR / CALM |
| | | 600 | 300 | 60 | 120 | 120 | |

| PENZURNI VILLAGE MYOA2 | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 06-02-2024 | 07-02-2024 | 84 | 48 | 16 | 12 | CLEAR SKY/MODERATE BREEZE |
| 07-02-2024 | 08-02-2024 | 76 | 46 | 20 | 15 | CLOUDY SKY/LIGHT BREEZE |
| 13-02-2024 | 14-02-2024 | 90 | 58 | 22 | 18 | CLOUDY SKY/LIGHT BREEZE |
| 14-02-2024 | 15-02-2024 | 106 | 60 | 18 | 14 | CLEAR SKY/MODERATE BREEZE |
| 20-02-2024 | 21-02-2024 | 90 | 42 | 15 | 12 | CLEAR SKY/ CALM |
| 21-02-2024 | 22-02-2024 | 100 | 45 | 20 | 16 | CLEAR SKY/ CALM |
| 27-02-2024 | 28-02-2024 | 98 | 56 | 22 | 18 | CLEAR SKY/ CALM |
| 28-02-2024 | 29-02-2024 | 106 | 60 | 21 | 16 | 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 | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 06-02-2024 | 07-02-2024 | 76 | 50 | 14 | 12 | CLEAR SKY/MODERATE BREEZE |
| 07-02-2024 | 08-02-2024 | 92 | 54 | 16 | 13 | CLOUDY SKY/LIGHT BREEZE |
| 13-02-2024 | 14-02-2024 | 86 | 52 | 22 | 18 | CLOUDY SKY/LIGHT BREEZE |
| 14-02-2024 | 15-02-2024 | 100 | 58 | 18 | 14 | CLEAR SKY/MODERATE BREEZE |
| 20-02-2024 | 21-02-2024 | 80 | 56 | 16 | 14 | CLEAR SKY/ CALM |
| 21-02-2024 | 22-02-2024 | 86 | 50 | 20 | 14 | CLEAR SKY/ CALM |
| 27-02-2024 | 28-02-2024 | 100 | 60 | 18 | 13 | CLEAR SKY/ CALM |
| 28-02-2024 | 29-02-2024 | 110 | 58 | 22 | 17 | 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 | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 06-02-2024 | 07-02-2024 | 80 | 60 | 18 | 15 | CLEAR SKY/MODERATE BREEZE |
| 07-02-2024 | 08-02-2024 | 82 | 48 | 17 | 13 | CLOUDY SKY/LIGHT BREEZE |
| 13-02-2024 | 14-02-2024 | 78 | 56 | 15 | 11 | CLOUDY SKY/LIGHT BREEZE |
| 14-02-2024 | 15-02-2024 | 90 | 50 | 22 | 18 | CLEAR SKY/MODERATE BREEZE |
| 20-02-2024 | 21-02-2024 | 108 | 62 | 18 | 14 | CLEAR SKY/ CALM |
| 21-02-2024 | 22-02-2024 | 114 | 66 | 20 | 16 | CLEAR SKY/ CALM |
| 27-02-2024 | 28-02-2024 | 76 | 42 | 16 | 14 | CLEAR SKY/ CALM |
| 28-02-2024 | 29-02-2024 | 106 | 48 | 15 | 12 | CLEAR SKY/ CALM |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |

| | | HIWRA MAJRA VILLAGE MYOAS | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| | | 5 | 2 | 6 | 10 | |
| 06-02-2024 | 07-02-2024 | 94 | 63 | 18 | 14 | CLEAR SKY/MODERATE BREEZE |
| 07-02-2024 | 08-02-2024 | 76 | 49 | 17 | 14 | CLOUDY SKY/LIGHT BREEZE |
| 13-02-2024 | 14-02-2024 | 86 | 56 | 22 | 18 | CLOUDY SKY/LIGHT BREEZE |
| 14-02-2024 | 15-02-2024 | 96 | 68 | 20 | 16 | CLEAR SKY/MODERATE BREEZE |
| 20-02-2024 | 21-02-2024 | 92 | 50 | 20 | 14 | CLEAR SKY/ CALM |
| 21-02-2024 | 22-02-2024 | 108 | 66 | 18 | 14 | CLEAR SKY/ CALM |
| 27-02-2024 | 28-02-2024 | 96 | 58 | 18 | 13 | CLEAR SKY/ CALM |
| 28-02-2024 | 29-02-2024 | 104 | 60 | 22 | 17 | CLEAR SKY/ CALM |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | |
|--------------------|--|---|
| SAMPLE DESCRIPTION | Water sample | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: 16-02-24 TO 15-03-24 |

| 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 |
| 14-02-2024 | 7.76 | 40 | 48 | BDL |
| 21-02-2024 | 7.86 | 46 | 60 | 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 |
| 14-02-2024 | 7.60 | 46 | 36 | BDL |
| 21-02-2024 | 7.93 | 40 | 48 | 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 |
| 14-02-2024 | 7.20 | 46 | 40 | BDL |
| 28-02-2024 | 7.76 | 40 | 44 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |

| STP(DOMESTIC EFFLUENT)TREATED: MYOW4 | | |
|---|------------------|--------------|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS | |
| | TSS (in mg/l) | BOD(in mg/l) |
| DETECTION LIMIT | 10 | 2 |
| 14-02-2024 | 42 | 11.4 |
| 28-02-2024 | 50 | 10.8 |
| GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS GSR 801E EPA 1993 | 100 | 30 |



Analysed by

| | | |
|--|---------------------------|---|
| <p>Environment Laboratory CMPDI RI-IV, NAGPUR</p> | <p>Test Report</p> |  |
|--|---------------------------|---|

NOISE LEVEL MONITORING DATA

| | |
|--------------------|--|
| SAMPLE DESCRIPTION | NOISE SAMPLE |
| Test Required | CPCB PRNOVOCOL FOR AMBIENT NOISE MEASUREMENT, AUG-2015 |
| SAMPLING METHOD | LSOP 6 |

| PIT OFFICE MYON1 | | | |
|--|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| DETECTION LIMIT | | 20 | 20 |
| FEB'24 | 13-02-2024 | 56.6 | 54.5 |
| FEB'24 | 26-02-2024 | 54.7 | 52.3 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

ADASA UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



FEBRUARY 2024



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

AN ISO 9001:2015 COMPANY



| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------------|--|----------------------|------------|
| TEST REPORT NO. | RIN/TR/FEB-24/1 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 | |

| 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 ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 02-02-2024 | 03-02-2024 | 355 | 238 | 68 | 36 | 18 | CLEAR/CALM |
| 27-02-2024 | 28-02-2024 | 358 | 244 | 69 | 37 | 20 | CLEAR/CALM |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH FEBember 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 | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 02-02-2024 | 03-02-2024 | 92 | 45 | 28 | BDL | CLEAR/CALM | |
| 27-02-2024 | 28-02-2024 | 94 | 46 | 29 | BDL | CLEAR/CALM | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| COLONY WATER FILTER PLANT NSNU3 | | | | | | | |
|---------------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|--|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) | |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 01-02-2024 | 02-02-2024 | 90 | 47 | 30 | BDL | CLEAR/CALM | |
| 16-02-2024 | 17-02-2024 | 92 | 48 | 31 | BDL | CLEAR/CALM | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| KOTODI VILLAGE NSNU4 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|--|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) | |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 01-02-2024 | 02-02-2024 | 91 | 48 | 29 | BDL | CLEAR/CALM | |
| 16-02-2024 | 17-02-2024 | 93 | 49 | 30 | BDL | CLEAR/CALM | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

A. Anupam

Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|---|--|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 |

| 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 |
| 02-02-2024 | 7.47 | 20 | 36 | BDL |
| 16-02-2024 | 7.42 | 18 | 32 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |

K. Sanyal

Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

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

| FAN HOUSE: NAUN1 | | | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 68.3 | 67.6 |
| FEB'24 | 24-02-2024 | 69.3 | 68.6 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| MANAGER OFFICE: NAUN2 | | | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 53.2 | 52.4 |
| FEB'24 | 24-02-2024 | 54.2 | 53.5 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| COLONY (SAONER): NSNUN4 | | | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 42.2 | 41.4 |
| FEB'24 | 24-02-2024 | 42.3 | 41.9 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
 2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor Environment Lab, CMPDI RI-IV, Nagpur.
 3. This report refers to the values related to the items tested.
- ***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

BHANEGOAN OC

NAGPUR AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------------|--|----------------------|------------|
| TEST REPORT NO. | RIN/TR/FEB-24/2 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 | |

| NEAR MANAGER OFFICE NBOA1 | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 13-02-2024 | 14-02-2024 | 363 | 212 | 67 | 37 | 19 | CLOUDY/CALM |
| 27-02-2024 | 28-02-2024 | 366 | 217 | 68 | 38 | 21 | CLOUDY/CALM |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| BINA SANGAM TEMPLE NBOA2 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|--|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) | |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 13-02-2024 | 14-02-2024 | 94 | 47 | 28 | BDL | CLOUDY/CALM | |
| 27-02-2024 | 28-02-2024 | 96 | 48 | 29 | BDL | CLOUDY/CALM | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| BINA VILLAGE NBOA3 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|--|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) | |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 13-02-2024 | 14-02-2024 | 96 | 48 | 29 | BDL | CLOUDY/CALM | |
| 27-02-2024 | 28-02-2024 | 98 | 49 | 30 | BDL | CLOUDY/CALM | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| DORLI VILLAGE NSOA4 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|--|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) | |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 01-02-2024 | 02-02-2024 | 97 | 47 | 29 | BDL | CLOUDY/CALM | |
| 15-02-2024 | 16-02-2024 | 98 | 48 | 30 | BDL | CLOUDY/CALM | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

A. Anupama

Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|--|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 |

| 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 |
| 13-02-2024 | 8.14 | 22 | 36 | BDL |
| 27-02-2024 | 7.91 | 20 | 32 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |

K. Anupama

Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

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

| CONTRACTOR CAMP | | NBON1 | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | NIGHT TIME |
| FEB'24 | 10-02-2024 | 53.2 | 52.5 |
| FEB'24 | 24-02-2024 | 53.8 | 52.4 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.
***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

GONDEGAON OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------------|--|----------------------|------------|
| TEST REPORT NO. | RIN/TR/FEB-24/3 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 | |

| NEAR SUBSTATION NGOA1 | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| | | 5 | 5 | 2 | 6 | 10 | |
| 05-02-2024 | 06-02-2024 | 377 | 228 | 66 | 37 | 19 | CLOUDY/CALM |
| 19-02-2024 | 20-02-2024 | 380 | 234 | 67 | 38 | 21 | CLOUDY/CALM |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| GONDEGAON VILLAGE SCHOOL NGOA2 | | | | | | | |
|--------------------------------|------------|--|-------------------|-----------------|-----------------|--|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| | | 5 | 2 | 6 | 10 | | |
| 04-02-2024 | 05-02-2024 | 82 | 41 | 28 | BDL | | CLOUDY/CALM |
| 05-02-2024 | 06-02-2024 | 84 | 42 | 29 | BDL | | CLOUDY/CALM |
| 11-02-2024 | 12-02-2024 | 86 | 43 | 30 | BDL | | CLOUDY/CALM |
| 12-02-2024 | 13-02-2024 | 88 | 44 | 31 | BDL | | CLOUDY/CALM |
| 18-02-2024 | 19-02-2024 | 90 | 43 | 30 | BDL | | CLOUDY/CALM |
| 19-02-2024 | 20-02-2024 | 91 | 44 | 31 | BDL | | CLOUDY/CALM |
| 25-02-2024 | 26-02-2024 | 92 | 45 | 32 | BDL | | CLOUDY/CALM |
| 26-02-2024 | 27-02-2024 | 93 | 44 | 27 | BDL | | CLOUDY/CALM |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| COLONY GUEST HOUSE/FILTER PLANT NGOA3 | | | | | | |
|---|------------|--|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| | | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| FROM | TO | 5 | 2 | 6 | 10 | |
| 04-02-2024 | 05-02-2024 | 93 | 43 | 26 | BDL | CLOUDY/CALM |
| 05-02-2024 | 06-02-2024 | 94 | 44 | 27 | BDL | CLOUDY/CALM |
| 11-02-2024 | 12-02-2024 | 95 | 45 | 28 | BDL | CLOUDY/CALM |
| 12-02-2024 | 13-02-2024 | 96 | 42 | 29 | BDL | CLOUDY/CALM |
| 18-02-2024 | 19-02-2024 | 93 | 46 | 29 | BDL | CLOUDY/CALM |
| 19-02-2024 | 20-02-2024 | 94 | 43 | 30 | BDL | CLOUDY/CALM |
| 25-02-2024 | 26-02-2024 | 95 | 42 | 27 | BDL | CLOUDY/CALM |
| 26-02-2024 | 27-02-2024 | 96 | 43 | 28 | BDL | CLOUDY/CALM |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |

| GHATROHNA VILLAGE NGOA4 | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| | | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| FROM | TO | 5 | 2 | 6 | 10 | |
| 04-02-2024 | 05-02-2024 | 92 | 42 | 26 | BDL | CLOUDY/CALM |
| 05-02-2024 | 06-02-2024 | 94 | 43 | 27 | BDL | CLOUDY/CALM |
| 11-02-2024 | 12-02-2024 | 96 | 44 | 28 | BDL | CLOUDY/CALM |
| 12-02-2024 | 13-02-2024 | 98 | 45 | 29 | BDL | CLOUDY/CALM |
| 18-02-2024 | 19-02-2024 | 92 | 43 | 27 | BDL | CLOUDY/CALM |
| 19-02-2024 | 20-02-2024 | 93 | 44 | 28 | BDL | CLOUDY/CALM |
| 25-02-2024 | 26-02-2024 | 94 | 45 | 29 | BDL | CLOUDY/CALM |
| 26-02-2024 | 27-02-2024 | 95 | 46 | 30 | BDL | CLOUDY/CALM |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |

[Handwritten Signature]

Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|--|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017), TSS: IS 3025-Part 17:1984(RA 2017), COD: APHA (23rd Edition) 5220 C :2017, O & G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 |

| 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 |
| 05-02-2024 | 7.97 | 18 | 32 | BDL |
| 19-02-2024 | 8.01 | 22 | 36 | 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 |
| 05-02-2024 | 8.15 | 36 | 44 | BDL |
| 19-02-2024 | 7.84 | 32 | 40 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

| | |
|--------------------|--|
| SAMPLE DESCRIPTION | NOISE SAMPLE |
| Test Required | CPCB PROTOCOL FOR AMBIENT NOISE MEASUREMENT, SEPT-2015 |
| SAMPLING METHOD | LSOP 6 |

| CHP | | NGON1 | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 67.2 | 66.5 |
| FEB'24 | 24-02-2024 | 66.2 | 65.4 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| GONDEGAON VILLAGE/COLONY | | NGON2 | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 42.2 | 41.4 |
| FEB'24 | 24-02-2024 | 42.2 | 41.3 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |

| GHATROHNA VILLAGE: | | NGON3 | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 42.3 | 41.5 |
| FEB'24 | 24-02-2024 | 43.3 | 41.8 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |

| JUNI KAMPTEE VILLAGE: | | NGON4 | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 42.2 | 41.3 |
| FEB'24 | 24-02-2024 | 42.4 | 41.4 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

INDER UG TO OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068




FEBRUARY 2024



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

AN ISO 9001:2015 COMPANY



| | | | | |
|---|--|--------------------|----------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | | Test Report | |  |
| TEST REPORT NO. | RIN/TR/FEB-24/4 | DATE OF ISSUE | 28-03-2024 | |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 | |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 | |

| NEAR PIT NO.6 / MANAGER OFFICE NIOA1 | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 02-02-2024 | 03-02-2024 | 355 | 234 | 67 | 35 | 19 | CLOUDY/CALM |
| 16-02-2024 | 17-02-2024 | 358 | 240 | 68 | 36 | 21 | CLOUDY/CALM |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| CMPDI TEKADI STORE NIOA2 | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 03-02-2024 | 04-02-2024 | 371 | 226 | 65 | 35 | 18 | CLOUDY/CALM |
| 17-02-2024 | 18-02-2024 | 374 | 232 | 66 | 36 | 20 | CLOUDY/CALM |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| COLONY WATER TREATMENT PLANT NKCA3 | | | | | | | |
|------------------------------------|------------|--|-------------------|-----------------|-----------------|-------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 02-02-2024 | 03-02-2024 | 92 | 43 | 25 | BDL | CLOUDY/CALM | |
| 03-02-2024 | 04-02-2024 | 93 | 44 | 26 | BDL | CLOUDY/CALM | |
| 09-02-2024 | 10-02-2024 | 94 | 45 | 27 | BDL | CLOUDY/CALM | |
| 10-02-2024 | 11-02-2024 | 95 | 46 | 28 | BDL | CLOUDY/CALM | |
| 16-02-2024 | 17-02-2024 | 94 | 46 | 28 | BDL | CLOUDY/CALM | |
| 17-02-2024 | 18-02-2024 | 92 | 47 | 29 | BDL | CLOUDY/CALM | |
| 23-02-2024 | 24-02-2024 | 93 | 48 | 30 | BDL | CLOUDY/CALM | |
| 24-02-2024 | 25-02-2024 | 94 | 42 | 26 | BDL | CLOUDY/CALM | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| G.P. OFFICE KANDRI VILLAGE NKCA4 | | | | | | | |
|----------------------------------|------------|--|-------------------|-----------------|-----------------|-------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 02-02-2024 | 03-02-2024 | 95 | 41 | 25 | BDL | CLOUDY/CALM | |
| 03-02-2024 | 04-02-2024 | 96 | 42 | 26 | BDL | CLOUDY/CALM | |
| 09-02-2024 | 10-02-2024 | 97 | 43 | 27 | BDL | CLOUDY/CALM | |
| 10-02-2024 | 11-02-2024 | 98 | 44 | 28 | BDL | CLOUDY/CALM | |
| 16-02-2024 | 17-02-2024 | 95 | 43 | 27 | BDL | CLOUDY/CALM | |
| 17-02-2024 | 18-02-2024 | 96 | 44 | 28 | BDL | CLOUDY/CALM | |
| 23-02-2024 | 24-02-2024 | 95 | 45 | 29 | BDL | CLOUDY/CALM | |
| 24-02-2024 | 25-02-2024 | 96 | 46 | 30 | BDL | CLOUDY/CALM | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

A. Anupama

Analysed by


| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|--|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 |

| 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 |
| 02-02-2024 | 7.89 | 32 | 44 | BDL |
| 16-02-2024 | 7.93 | 24 | 36 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |

K. Anupama

Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

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

| RC OFFICE: NION1 | | | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 54.3 | 53.5 |
| FEB'24 | 24-02-2024 | 53.3 | 52.5 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.
***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated
either directly or indirectly to the press or to any person not holding
an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

KAMPTEE DEEP OC

NAGPUR AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/5 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| SUBSTATION NKCA1 | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| | | 5 | 5 | 2 | 6 | 10 | |
| 02-02-2024 | 03-02-2024 | 367 | 220 | 66 | 36 | 20 | CLOUDY/CALM |
| 16-02-2024 | 17-02-2024 | 370 | 226 | 67 | 37 | 22 | CLOUDY/CALM |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |


| JUNI KAMPTEE VILLAGE NKCA2 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|-------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| | | 5 | 2 | 6 | 10 | | |
| 02-02-2024 | 03-02-2024 | 90 | 41 | 26 | BDL | CLOUDY/CALM | |
| 03-02-2024 | 04-02-2024 | 91 | 42 | 27 | BDL | CLOUDY/CALM | |
| 09-02-2024 | 10-02-2024 | 92 | 43 | 28 | BDL | CLOUDY/CALM | |
| 10-02-2024 | 11-02-2024 | 93 | 44 | 29 | BDL | CLOUDY/CALM | |
| 16-02-2024 | 17-02-2024 | 90 | 45 | 30 | BDL | CLOUDY/CALM | |
| 17-02-2024 | 18-02-2024 | 91 | 46 | 31 | BDL | CLOUDY/CALM | |
| 23-02-2024 | 24-02-2024 | 92 | 44 | 26 | BDL | CLOUDY/CALM | |
| 24-02-2024 | 25-02-2024 | 93 | 45 | 27 | BDL | CLOUDY/CALM | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| COLONY WATER TREATMENT PLANT NKCA3 | | | | | | |
|------------------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| | | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| FROM | TO | 5 | 2 | 6 | 10 | |
| 02-02-2024 | 03-02-2024 | 92 | 43 | 25 | BDL | CLOUDY/CALM |
| 03-02-2024 | 04-02-2024 | 93 | 44 | 26 | BDL | CLOUDY/CALM |
| 09-02-2024 | 10-02-2024 | 94 | 45 | 27 | BDL | CLOUDY/CALM |
| 10-02-2024 | 11-02-2024 | 95 | 46 | 28 | BDL | CLOUDY/CALM |
| 16-02-2024 | 17-02-2024 | 94 | 46 | 28 | BDL | CLOUDY/CALM |
| 17-02-2024 | 18-02-2024 | 92 | 47 | 29 | BDL | CLOUDY/CALM |
| 23-02-2024 | 24-02-2024 | 93 | 48 | 30 | BDL | CLOUDY/CALM |
| 24-02-2024 | 25-02-2024 | 94 | 42 | 26 | BDL | CLOUDY/CALM |
| NAAQS, 2009 | | 100 | | 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) |
| | | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| FROM | TO | 5 | 2 | 6 | 10 | |
| 02-02-2024 | 03-02-2024 | 95 | 41 | 25 | BDL | CLOUDY/CALM |
| 03-02-2024 | 04-02-2024 | 96 | 42 | 26 | BDL | CLOUDY/CALM |
| 09-02-2024 | 10-02-2024 | 97 | 43 | 27 | BDL | CLOUDY/CALM |
| 10-02-2024 | 11-02-2024 | 98 | 44 | 28 | BDL | CLOUDY/CALM |
| 16-02-2024 | 17-02-2024 | 95 | 43 | 27 | BDL | CLOUDY/CALM |
| 17-02-2024 | 18-02-2024 | 96 | 44 | 28 | BDL | CLOUDY/CALM |
| 23-02-2024 | 24-02-2024 | 95 | 45 | 29 | BDL | CLOUDY/CALM |
| 24-02-2024 | 25-02-2024 | 96 | 46 | 30 | BDL | CLOUDY/CALM |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |

A. Anupama

Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|--|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 |

| 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 |
| 02-02-2024 | 7.78 | 20 | 32 | BDL |
| 16-02-2024 | 8.08 | 22 | 36 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |

| ETP DISCHARGE: NKCW2 | | | | |
|---|------------------|---------------|--------------|----------------|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS | | | |
| | pH | TSS (in mg/l) | COD(in mg/l) | O & G(in mg/l) |
| DETECTION LIMIT | 2 | 10 | 4 | 2 |
| 02-02-2024 | 7.63 | 38 | 48 | BDL |
| 16-02-2024 | 7.66 | 34 | 44 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |

A. Srinivas

Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

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

| CHP: NKC1 | | | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 66.4 | 65.6 |
| FEB'24 | 24-02-2024 | 66.2 | 65.5 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| COLONY(KAMPTEE): NKC2 | | | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 42.2 | 41.4 |
| FEB'24 | 24-02-2024 | 43.2 | 41.6 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

PATANSAONGI UG

NAGPUR AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/6 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| COLLIERY MANAGER OFFICE NPTUA1 | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| | | 5 | 5 | 2 | 6 | 10 | |
| 01-02-2024 | 02-02-2024 | 395 | 222 | 67 | 38 | 18 | CLOUDY/LIGHT BREEZE |
| 16-02-2024 | 17-02-2024 | 398 | 228 | 68 | 39 | 20 | CLEAR/LIGHT BREEZE |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| SADBHAVAN NAGAR (FILTER PLANT) NPTUA2 | | | | | | | |
|---|------------|--|-------------------|-----------------|-----------------|--|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| | | 5 | 2 | 6 | 10 | | |
| 01-02-2024 | 02-02-2024 | 87 | 49 | 28 | BDL | | CLOUDY/LIGHT BREEZE |
| 16-02-2024 | 17-02-2024 | 89 | 50 | 29 | BDL | | CLEAR/LIGHT BREEZE |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| NEAR LCH QR. NPTUA3 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| | | 5 | 2 | 6 | 10 | | |
| 01-02-2024 | 02-02-2024 | 88 | 45 | 28 | BDL | | CLOUDY/LIGHT BREEZE |
| 16-02-2024 | 17-02-2024 | 90 | 46 | 29 | BDL | | CLEAR/LIGHT BREEZE |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| SAVARMENDHA /TANDULWADI VILLAGE. NPTUA4 | | | | | | | |
|---|------------|--|-------------------|-----------------|-----------------|--|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| | | 5 | 2 | 6 | 10 | | |
| 01-02-2024 | 02-02-2024 | 89 | 46 | 29 | BDL | | CLOUDY/LIGHT BREEZE |
| 16-02-2024 | 17-02-2024 | 91 | 47 | 30 | BDL | | CLEAR/LIGHT BREEZE |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

A. Sanyal

Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|--|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 |

| MINE DISCHARGE: NPTUW1 | | | | |
|--|------------------|---------------|--------------|----------------|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS | | | |
| | pH | TSS (in mg/l) | COD(in mg/l) | O & G(in mg/l) |
| DETECTION LIMIT | 2 | 10 | 4 | 2 |
| 01-02-2024 | 8.25 | 18 | 32 | BDL |
| 16-02-2024 | 7.98 | 24 | 36 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |

A. Anupama

Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

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

| CHP: NPTUN1 | | | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 66.3 | 65.4 |
| FEB'24 | 24-02-2024 | 68.3 | 65.9 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| COLONY: NPTUN2 | | | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 42.2 | 41.3 |
| FEB'24 | 24-02-2024 | 43.3 | 41.8 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floo Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

SAONER UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|--|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  TC-7182 |
|---|--------------------|--|

| | | | |
|-------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/8 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 15-09-23 TO 15-10-23 |

| C.M OFFICE-SAONER-I UG NSNUA1 | | | | | | | |
|---|------------|--|-------------------------------|--------------------------------|------------------------------|-------------------------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM ₅ | PM ₁₀ ₅ | PM _{2.5} ₂ | NO ₂ ₆ | SO ₂ ₁₀ | |
| 01-02-2024 | 02-02-2024 | 383 | 238 | 65 | 35 | 20 | CLEAR/CALM |
| 16-02-2024 | 17-02-2024 | 386 | 244 | 66 | 36 | 22 | CLEAR/CALM |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| C.M OFFICE-SAONER-II UG NSNUA2 | | | | | | | |
|---|------------|--|-------------------------------|--------------------------------|------------------------------|-------------------------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM ₅ | PM ₁₀ ₅ | PM _{2.5} ₂ | NO ₂ ₆ | SO ₂ ₁₀ | |
| 01-02-2024 | 02-02-2024 | 381 | 230 | 69 | 36 | 19 | CLEAR/CALM |
| 16-02-2024 | 17-02-2024 | 384 | 236 | 70 | 37 | 21 | CLEAR/CALM |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| COLONY WATER FILTER PLANT NSNU3 | | | | | | | |
|---------------------------------|------------|--|--------------------------------|------------------------------|-------------------------------|------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ ₅ | PM _{2.5} ₂ | NO ₂ ₆ | SO ₂ ₁₀ | | |
| 01-02-2024 | 02-02-2024 | 90 | 47 | 30 | BDL | CLEAR/CALM | |
| 16-02-2024 | 17-02-2024 | 92 | 48 | 31 | BDL | CLEAR/CALM | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| KOTODI VILLAGE NSNU4 | | | | | | | |
|----------------------------|------------|--|--------------------------------|------------------------------|-------------------------------|------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ ₅ | PM _{2.5} ₂ | NO ₂ ₆ | SO ₂ ₁₀ | | |
| 01-02-2024 | 02-02-2024 | 91 | 48 | 29 | BDL | CLEAR/CALM | |
| 16-02-2024 | 17-02-2024 | 93 | 49 | 30 | BDL | CLEAR/CALM | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

K. Anupama

Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|--|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 |

| 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 |
| 01-02-2024 | 8.23 | 22 | 40 | BDL |
| 17-02-2024 | 8.14 | 20 | 36 | 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 |
| 01-02-2024 | 8.39 | 18 | 32 | BDL |
| 17-02-2024 | 8.21 | 22 | 36 | 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 |
| 01-02-2024 | 8.13 | 22 | 36 | BDL |
| 17-02-2024 | 7.92 | 18 | 32 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |

R. Anupama

Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

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

| FAN HOUSE-I: NSNUN1 | | | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | | 20 |
| FEB'24 | 10-02-2024 | 69.3 | 68.5 |
| FEB'24 | 24-02-2024 | 69.3 | 68.4 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| FAN HOUSE-II: NSNUN2 | | | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | | 20 |
| FEB'24 | 10-02-2024 | 69.2 | 68.4 |
| FEB'24 | 24-02-2024 | 68.2 | 67.4 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| FAN HOUSE-III: NSNUN3 | | | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | | 20 |
| FEB'24 | 10-02-2024 | 69.3 | 68.3 |
| FEB'24 | 24-02-2024 | 69.2 | 68.5 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| COLONY: NSNUN4 | | | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | | 20 |
| FEB'24 | 10-02-2024 | 42.2 | 41.4 |
| FEB'24 | 24-02-2024 | 42.3 | 41.9 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

SINGORI OC

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068




OCTOBER 2023



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

AN ISO 9001:2015 COMPANY



| | | |
|---|--------------------|--|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  TC-7102 |
|---|--------------------|--|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/10 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| CONTRACTOR CAMP NSOA1 | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| | | 5 | 5 | 2 | 6 | 10 | |
| 01-02-2024 | 02-02-2024 | 387 | 223 | 65 | 36 | 21 | CLOUDY/CALM |
| 15-02-2024 | 16-02-2024 | 390 | 229 | 66 | 37 | 23 | CLOUDY/CALM |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| SOHALI VILLAGE NSOA2 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| | | 5 | 2 | 6 | 10 | | |
| 01-02-2024 | 02-02-2024 | 98 | 46 | 27 | BDL | | CLOUDY/CALM |
| 15-02-2024 | 16-02-2024 | 99 | 47 | 28 | BDL | | CLOUDY/CALM |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| HINGNA VILLAGE NSOA3 | | | | | | | |
|----------------------------|------------|------------------|-------------------|-----------------|-----------------|--|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | SPM | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| | | 5 | 2 | 6 | 10 | | |
| 01-02-2024 | 02-02-2024 | 95 | 48 | 28 | BDL | | CLOUDY/CALM |
| 15-02-2024 | 16-02-2024 | 97 | 49 | 29 | BDL | | CLOUDY/CALM |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| DORLI VILLAGE NSOA4 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| | | 5 | 2 | 6 | 10 | | |
| 01-02-2024 | 02-02-2024 | 97 | 47 | 29 | BDL | | CLOUDY/CALM |
| 15-02-2024 | 16-02-2024 | 98 | 48 | 30 | BDL | | CLOUDY/CALM |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

A. Singh

Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|--|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 |

| MINE WATER DISCHARGE: NSOW1 | | | | |
|--|------------------|---------------|--------------|----------------|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS | | | |
| | pH | TSS (in mg/l) | COD(in mg/l) | O & G(in mg/l) |
| DETECTION LIMIT | 2 | 10 | 4 | 2 |
| 4 01-02-2024 | 8.31 | 20 | 32 | BDL |
| 18 15-02-2024 | 8.12 | 18 | 24 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |

K. Anupama

Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

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

| CONTRACTOR CAMP: NSON1 | | | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 52.2 | 51.9 |
| FEB'24 | 24-02-2024 | 52.8 | 51.3 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| SOHALI VILLAGE: NSON2 | | | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 42.2 | 41.3 |
| FEB'24 | 24-02-2024 | 42.6 | 41.4 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |

| NEAR DRILING SITE: NSON3 | | | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 67.3 | 66.5 |
| FEB'24 | 24-02-2024 | 67.2 | 66.5 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| NEAR DOSING SITE: NSON4 | | | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 66.2 | 65.4 |
| FEB'24 | 24-02-2024 | 66.3 | 65.6 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

WAGHODA - UG

NAGPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|--|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|--|

| | | | |
|-------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/7 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| MANAGER OFFICE NWUA1 | | | | | | | |
|--|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 02-02-2024 | 03-02-2024 | 369 | 240 | 69 | 37 | BDL | CLEAR/CALM |
| 27-02-2024 | 28-02-2024 | 372 | 246 | 70 | 38 | BDL | CLEAR/CALM |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| AJANI VILLAGE BNWUA2 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|--|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) | |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 02-02-2024 | 03-02-2024 | 93 | 46 | 29 | BDL | CLEAR/CALM | |
| 27-02-2024 | 28-02-2024 | 95 | 47 | 30 | BDL | CLEAR/CALM | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| ADASA VILLAGE BNWUA3 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|--|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) | |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 03-02-2024 | 04-02-2024 | 94 | 47 | 27 | BDL | CLEAR/CALM | |
| 28-02-2024 | 29-02-2024 | 96 | 48 | 28 | BDL | CLEAR/CALM | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| BORGAON VILLAGE BNWUA4 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|--|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) | |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 03-02-2024 | 04-02-2024 | 95 | 49 | 29 | BDL | CLEAR/CALM | |
| 28-02-2024 | 29-02-2024 | 97 | 50 | 30 | BDL | CLEAR/CALM | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

A. Anupama

Analysed by

| DHAPEWADA VILLAGE BNWUA5 | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| | | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| FROM | TO | 5 | 2 | 6 | 10 | |
| 03-02-2024 | 04-02-2024 | 97 | 47 | 27 | BDL | CLEAR/CALM |
| 28-02-2024 | 29-02-2024 | 99 | 48 | 28 | BDL | CLEAR/CALM |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |

| TAKLI VILLAGE BNWUA6 | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| | | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| FROM | TO | 5 | 2 | 6 | 10 | |
| 03-02-2024 | 04-02-2024 | 94 | 46 | 29 | BDL | CLEAR/CALM |
| 28-02-2024 | 29-02-2024 | 96 | 47 | 30 | BDL | CLEAR/CALM |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |

| SAWANGI VILLAGE BNWUA7 | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| | | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| FROM | TO | 5 | 2 | 6 | 10 | |
| 03-02-2024 | 04-02-2024 | 96 | 45 | 29 | BDL | CLEAR/CALM |
| 28-02-2024 | 29-02-2024 | 94 | 46 | 30 | BDL | CLEAR/CALM |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |

K. Anupama

Analysed by

| | | |
|---|--------------------|--|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|--|

| | | | |
|--------------------|--|--|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 |

| MINE WATER DISCHARGE: NWUW1 | | | | |
|---|------------------|---------------|--------------|----------------|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS | | | |
| | pH | TSS (in mg/l) | COD(in mg/l) | O & G(in mg/l) |
| DETECTION LIMIT | 2 | 10 | 4 | 2 |
| 03-02-2024 | 8.05 | 20 | 32 | BDL |
| 16-02-2024 | 7.47 | 22 | 36 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |

A. Anupam

Analysed by

| | | |
|---|--------------------|--|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|--|

NOISE LEVEL MONITORING DATA

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

| AJANI VILLAGE | | NWUN1 | |
|---|-----------------|----------------------|------------|
| MONTH | DATE OF SAMPLE | NOISE LEVEL IN dB(A) | |
| | COLLECTION | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 42.2 | 41.4 |
| FEB'24 | 24-02-2024 | 42.2 | 41.3 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |

| ADASA VILLAGE | | NWUN2 | |
|---|-----------------|----------------------|------------|
| MONTH | DATE OF SAMPLE | NOISE LEVEL IN dB(A) | |
| | COLLECTION | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 42.3 | 41.5 |
| FEB'24 | 24-02-2024 | 43.5 | 42.5 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |

| BORGAON VILLAGE | | NWUN3 | |
|---|-----------------|----------------------|------------|
| MONTH | DATE OF SAMPLE | NOISE LEVEL IN dB(A) | |
| | COLLECTION | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 43.3 | 41.3 |
| FEB'24 | 24-02-2024 | 42.2 | 41.4 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |

| DHAPEWADA VILLAGE | | NWUN4 | |
|---|-----------------|----------------------|------------|
| MONTH | DATE OF SAMPLE | NOISE LEVEL IN dB(A) | |
| | COLLECTION | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 42.2 | 41.5 |
| FEB'24 | 24-02-2024 | 42.4 | 41.6 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |

| TAKLI VILLAGE | | NWUN5 | |
|--|-----------------|----------------------|------------|
| MONTH | DATE OF SAMPLE | NOISE LEVEL IN dB(A) | |
| | COLLECTION | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 43.3 | 42.4 |
| FEB'24 | 24-02-2024 | 42.3 | 41.6 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |

| SAWANGI VILLAGE | | NWUNG | |
|--|-----------------|----------------------|------------|
| MONTH | DATE OF SAMPLE | NOISE LEVEL IN dB(A) | |
| | COLLECTION | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 42.4 | 41.5 |
| FEB'24 | 24-02-2024 | 42.2 | 41.3 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |

| NEAR MANAGER OFFICE | | NWUN7 | |
|--|-----------------|----------------------|------------|
| MONTH | DATE OF SAMPLE | NOISE LEVEL IN dB(A) | |
| | COLLECTION | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 54.2 | 53.4 |
| FEB'24 | 24-02-2024 | 53.2 | 52.4 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in theCIL / Government

ENVIRONMENTAL MONITORING REPORT

DINESH OCP

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



FEBRUARY 2024

Environment Laboratory

CMPDI

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/11 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| MANAGER OFFICE UM30A1 | | | | | | | |
|--|------------|--|------------------|-------------------|-----------------|-----------------|-----------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| | | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| FROM | TO | 5 | 5 | 2 | 6 | 10 | |
| 06-02-2024 | 07-02-2024 | 265 | 155 | 48 | 14 | 12 | Clear/calm |
| 20-02-2024 | 21-02-2024 | 252 | 142 | 40 | 13 | 11 | Clear/calm |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| NEAR RLY. WEIGHT BRIDGE UM30A2 | | | | | | | |
|--|------------|--|------------------|-------------------|-----------------|-----------------|-----------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| | | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| FROM | TO | 5 | 5 | 2 | 6 | 10 | |
| 06-02-2024 | 07-02-2024 | 242 | 140 | 42 | 12 | 10 | Clear/calm |
| 20-02-2024 | 21-02-2024 | 260 | 154 | 46 | 13 | 11 | Clear/calm |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| PIPARDOL VILLAGE UM30A3 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|-----------------------------------|--|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) | |
| | | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| FROM | TO | 5 | 2 | 6 | 10 | | |
| 04-02-2024 | 05-02-2024 | 80 | 30 | 8 | BDL | Clear / Calm | |
| 05-02-2024 | 06-02-2024 | 76 | 26 | 6 | BDL | Clear / Calm | |
| 11-02-2024 | 12-02-2024 | 78 | 28 | 7 | BDL | Clear / Calm | |
| 12-02-2024 | 13-02-2024 | 74 | 24 | 6 | BDL | Clear / Calm | |
| 18-02-2024 | 19-02-2024 | 76 | 26 | 6 | BDL | Clear / Calm | |
| 19-02-2024 | 20-02-2024 | 78 | 28 | 7 | BDL | Clear / Calm | |
| 25-02-2024 | 26-02-2024 | 80 | 30 | 8 | BDL | Clear / Calm | |
| 26-02-2024 | 27-02-2024 | 72 | 22 | 6 | BDL | Clear / 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) | |
| | | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| FROM | TO | 5 | 2 | 6 | 10 | | |
| 04-02-2024 | 05-02-2024 | 80 | 30 | 8 | BDL | Clear / Calm | |
| 05-02-2024 | 06-02-2024 | 72 | 22 | 6 | BDL | Clear / Calm | |
| 11-02-2024 | 12-02-2024 | 76 | 26 | 7 | BDL | Clear / Calm | |
| 12-02-2024 | 13-02-2024 | 74 | 24 | 6 | BDL | Clear / Calm | |
| 18-02-2024 | 19-02-2024 | 80 | 30 | 8 | BDL | Clear / Calm | |
| 19-02-2024 | 20-02-2024 | 76 | 26 | 7 | BDL | Clear / Calm | |
| 25-02-2024 | 26-02-2024 | 74 | 24 | 6 | BDL | Clear / Calm | |
| 26-02-2024 | 27-02-2024 | 78 | 28 | 8 | BDL | Clear / Calm | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

J. Singh

Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|--|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017), TSS: IS 3025-Part 17:1984(RA 2017), COD: APHA (23rd Edition) 5220 C :2017, O & G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 |

| 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 |
| 12-02-2024 | 7.92 | 26 | 36 | BDL |
| 26-02-2024 | 7.83 | 28 | 40 | 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 |
| 12-02-2024 | 7.86 | 16 | 24 | BDL |
| 26-02-2024 | 8.29 | 18 | 28 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

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

| PIT OFFICE UGON1 | | | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | | 20 | 20 |
| FEB'24 | 07-02-2024 | 60.5 | 55.2 |
| FEB'24 | 21-02-2024 | 61.4 | 56.8 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
 2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor Environment Lab, CMPDI RI-IV, Nagpur.
 3. This report refers to the values related to the items tested.
- ***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

GOKUL OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



FEBRUARY 2024



Environment Laboratory

CMPDI

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

AN ISO 9001:2015 COMPANY



| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/12 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| CONTRACTOR CAMP UGOA1 | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 13-02-2024 | 14-02-2024 | 255 | 142 | 42 | 13 | 11 | Clear/ Calm |
| 27-02-2024 | 28-02-2024 | 265 | 158 | 48 | 14 | 12 | Clear/ Calm |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| BESUR VILLAGE UGOA2 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|-------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 06-02-2024 | 07-02-2024 | 78 | 28 | 7 | BDL | Clear/ Calm | |
| 07-02-2024 | 08-02-2024 | 80 | 30 | 8 | BDL | Clear/ Calm | |
| 13-02-2024 | 14-02-2024 | 76 | 26 | 7 | BDL | Clear/ Calm | |
| 14-02-2024 | 15-02-2024 | 74 | 24 | 6 | BDL | Clear/ Calm | |
| 20-02-2024 | 21-02-2024 | 72 | 22 | 6 | BDL | Clear/ Calm | |
| 21-02-2024 | 22-02-2024 | 80 | 30 | 8 | BDL | Clear/ Calm | |
| 27-02-2024 | 28-02-2024 | 76 | 26 | 7 | BDL | Clear/ Calm | |
| 28-02-2024 | 29-02-2024 | 74 | 24 | 6 | BDL | Clear/ Calm | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| NAND VILLAGE UGOA3 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|-------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 06-02-2024 | 07-02-2024 | 72 | 22 | 6 | BDL | Clear/ Calm | |
| 07-02-2024 | 08-02-2024 | 74 | 25 | 7 | BDL | Clear/ Calm | |
| 13-02-2024 | 14-02-2024 | 76 | 26 | 7 | BDL | Clear/ Calm | |
| 14-02-2024 | 15-02-2024 | 80 | 30 | 8 | BDL | Clear/ Calm | |
| 20-02-2024 | 21-02-2024 | 78 | 28 | 7 | BDL | Clear/ Calm | |
| 21-02-2024 | 22-02-2024 | 80 | 30 | 8 | BDL | Clear/ Calm | |
| 27-02-2024 | 28-02-2024 | 74 | 24 | 6 | BDL | Clear/ Calm | |
| 28-02-2024 | 29-02-2024 | 76 | 26 | 7 | BDL | Clear/ Calm | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| POLGAON VILLAGE UGOA4 | | | | | | |
|--|------------|--|-------------------|-----------------|-----------------|-----------------------------------|
| DATE(dd:mm:yy) AND TIME (12 hr format) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| | | 5 | 2 | 6 | 10 | |
| 06-02-2024 | 07-02-2024 | 74 | 24 | 7 | BDL | Clear/ Calm |
| 07-02-2024 | 08-02-2024 | 72 | 22 | 6 | BDL | Clear/ Calm |
| 13-02-2024 | 14-02-2024 | 76 | 26 | 7 | BDL | Clear/ Calm |
| 14-02-2024 | 15-02-2024 | 80 | 30 | 8 | BDL | Clear/ Calm |
| 20-02-2024 | 21-02-2024 | 74 | 24 | 6 | BDL | Clear/ Calm |
| 21-02-2024 | 22-02-2024 | 80 | 30 | 8 | BDL | Clear/ Calm |
| 27-02-2024 | 28-02-2024 | 72 | 22 | 6 | BDL | Clear/ Calm |
| 28-02-2024 | 29-02-2024 | 76 | 26 | 7 | BDL | Clear/ Calm |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |

J. Singh


Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|---|--|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 |

| 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 |
| 13-02-2024 | 8.05 | 22 | 32 | BDL |
| 27-02-2024 | 7.96 | 26 | 36 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |

| ETP(WORKSHOP): UGOW2 | | | | |
|---|------------------|---------------|--------------|----------------|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS | | | |
| | pH | TSS (in mg/l) | COD(in mg/l) | O & G(in mg/l) |
| DETECTION LIMIT | 2 | 10 | 4 | 2 |
| 13-02-2024 | 8.13 | 16 | 24 | BDL |
| 27-02-2024 | 8.74 | 18 | 28 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

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

| PIT OFFICE: UGON1 | | | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 07-02-2024 | 62.3 | 59.7 |
| FEB'24 | 21-02-2024 | 63.8 | 59.2 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| CONTRACTOR CAMP: UGON2 | | | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 07-02-2024 | 56.8 | 54.7 |
| FEB'24 | 21-02-2024 | 59.8 | 52.4 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |



Ashwin B Wasnik

Reviewed by



Deepanshu Sahu

Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laborator activities are performed at the Laboratory permanent facility that is ground floo Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

MAKARDHOKRA-II OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068




FEBRUARY 2024

Environment Laboratory

CMPDI

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|


| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/14 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| 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 ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 08-02-2024 | 09-02-2024 | 265 | 158 | 48 | 13 | 11 | Cloudy / Calm |
| 22-02-2024 | 23-02-2024 | 274 | 162 | 52 | 14 | 12 | Cloudy / Calm |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH 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 ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 08-02-2024 | 09-02-2024 | 155 | 146 | 42 | 12 | 10 | Cloudy / Calm |
| 22-02-2024 | 23-02-2024 | 248 | 138 | 38 | 13 | 11 | Cloudy / Calm |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| KANWA VILLAGE | | UJUA3 | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 06-02-2024 | 07-02-2024 | 82 | 26 | 6 | BDL | Cloudy / calm |
| 20-02-2024 | 21-02-2024 | 80 | 28 | 7 | BDL | Cloudy / Calm |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |

| NEAR PUMP HOUSE COLONY | | UJUA4 | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 06-02-2024 | 07-02-2024 | 78 | 24 | 6 | BDL | Cloudy / calm |
| 20-02-2024 | 21-02-2024 | 82 | 26 | 7 | BDL | Cloudy / Calm |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |


Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

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

| NEAR PIT OFFICE: UMON1 | | NOISE LEVEL IN dB(A) | NOISE LEVEL IN dB(A) |
|---|---------------------------|----------------------|----------------------|
| MONTH | DATE OF SAMPLE COLLECTION | DAY TIME | DAY TIME |
| | | DETECTION LIMIT | 20 |
| FEB'24 | 07-02-2024 | 61.2 | 58.5 |
| FEB'24 | 21-02-2024 | 62.3 | 61.4 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

MAKARDHOKRA-I OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068




FEBRUARY 2024

Environment Laboratory

CMPDI

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/34 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in µg/m ³) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|--|------------|---|------------------|-------------------|-----------------|-----------------|-----------------------------------|
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 13-02-2024 | 14-02-2024 | 265 | 158 | 44 | 14 | 12 | Clear / Calm |
| 27-02-2024 | 28-02-2024 | 258 | 145 | 40 | 13 | 11 | Clear / Calm |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in µg/m ³) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|----------------------------|------------|---|-------------------|-----------------|-----------------|-----------------------------------|
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 04-02-2024 | 05-02-2024 | 80 | 28 | 7 | BDL | Clear / Calm |
| 05-02-2024 | 06-02-2024 | 74 | 24 | 6 | BDL | Clear / Calm |
| 11-02-2024 | 12-02-2024 | 78 | 28 | 8 | BDL | Clear / Calm |
| 12-02-2024 | 13-02-2024 | 76 | 26 | 6 | BDL | Clear / Calm |
| 18-02-2024 | 19-02-2024 | 78 | 28 | 8 | BDL | Clear / Calm |
| 19-02-2024 | 20-02-2024 | 76 | 26 | 6 | BDL | Clear / Calm |
| 25-02-2024 | 26-02-2024 | 80 | 30 | 8 | BDL | Clear / Calm |
| 26-02-2024 | 27-02-2024 | 72 | 22 | 6 | BDL | Clear / Calm |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |

| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in µg/m ³) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|----------------------------|------------|---|-------------------|-----------------|-----------------|-----------------------------------|
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 04-02-2024 | 05-02-2024 | 76 | 26 | 7 | BDL | Clear / Calm |
| 05-02-2024 | 06-02-2024 | 78 | 28 | 8 | BDL | Clear / Calm |
| 11-02-2024 | 12-02-2024 | 74 | 24 | 6 | BDL | Clear / Calm |
| 12-02-2024 | 13-02-2024 | 80 | 30 | 8 | BDL | Clear / Calm |
| 18-02-2024 | 19-02-2024 | 76 | 26 | 7 | BDL | Clear / Calm |
| 19-02-2024 | 20-02-2024 | 80 | 30 | 8 | BDL | Clear / Calm |
| 25-02-2024 | 26-02-2024 | 76 | 26 | 7 | BDL | Clear / Calm |
| 26-02-2024 | 27-02-2024 | 78 | 28 | 8 | BDL | Clear / Calm |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |

| KHURSAPUR VILLAGE UM10A4 | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|-----------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 04-02-2024 | 05-02-2024 | 78 | 28 | 8 | BDL | Clear / Calm |
| 05-02-2024 | 06-02-2024 | 76 | 26 | 6 | BDL | Clear / Calm |
| 11-02-2024 | 12-02-2024 | 72 | 22 | 6 | BDL | Clear / Calm |
| 12-02-2024 | 13-02-2024 | 80 | 30 | 8 | BDL | Clear / Calm |
| 18-02-2024 | 19-02-2024 | 74 | 24 | 6 | BDL | Clear / Calm |
| 19-02-2024 | 20-02-2024 | 78 | 28 | 7 | BDL | Clear / Calm |
| 25-02-2024 | 26-02-2024 | 74 | 24 | 6 | BDL | Clear / Calm |
| 26-02-2024 | 27-02-2024 | 72 | 22 | 6 | BDL | Clear / Calm |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |
| HEOTI VILLAGE UM10A5 | | | | | | |
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 04-02-2024 | 05-02-2024 | 72 | 22 | 6 | BDL | Clear / Calm |
| 05-02-2024 | 06-02-2024 | 78 | 28 | 7 | BDL | Clear / Calm |
| 11-02-2024 | 12-02-2024 | 76 | 26 | 6 | BDL | Clear / Calm |
| 12-02-2024 | 13-02-2024 | 80 | 30 | 8 | BDL | Clear / Calm |
| 18-02-2024 | 19-02-2024 | 78 | 28 | 7 | BDL | Clear / Calm |
| 19-02-2024 | 20-02-2024 | 76 | 26 | 6 | BDL | Clear / Calm |
| 25-02-2024 | 26-02-2024 | 80 | 30 | 8 | BDL | Clear / Calm |
| 26-02-2024 | 27-02-2024 | 72 | 22 | 6 | BDL | Clear / Calm |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |

J. Singh

Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|--|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 |

| MINE WATER DISCHARGE: UM10W1 | | | | |
|---|------------------|---------------|--------------|----------------|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS | | | |
| | pH | TSS (in mg/l) | COD(in mg/l) | O & G(in mg/l) |
| DETECTION LIMIT | 2 | 10 | 4 | 2 |
| 13-02-2024 | 7.85 | 26 | 36 | BDL |
| 26-02-2024 | 7.89 | 18 | 28 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |

| ETP: UM10W2 | | | | |
|---|------------------|---------------|--------------|----------------|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS | | | |
| | pH | TSS (in mg/l) | COD(in mg/l) | O & G(in mg/l) |
| DETECTION LIMIT | 2 | 10 | 4 | 2 |
| 13-02-2024 | 8.05 | 22 | 32 | BDL |
| 26-02-2024 | 8.52 | 16 | 24 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

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

| PIT OFFICE: UM10N1 | | NOISE LEVEL IN dB(A) | |
|--|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | DAY TIME | NIGHT TIME |
| | | DETECTION LIMIT | 20 |
| FEB'24 | 07-02-2024 | 60.6 | 58.4 |
| FEB'24 | 21-02-2024 | 61.6 | 60.1 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| SIRPUR VILLAGE: UM10N2 | | NOISE LEVEL IN dB(A) | |
|--|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | DAY TIME | NIGHT TIME |
| | | DETECTION LIMIT | 20 |
| FEB'24 | 07-02-2024 | 46.3 | 41.9 |
| FEB'24 | 21-02-2024 | 47.1 | 43.0 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |

| HEOTI VILLAGE: UM10N3 | | NOISE LEVEL IN dB(A) | |
|--|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | DAY TIME | NIGHT TIME |
| | | DETECTION LIMIT | 20 |
| FEB'24 | 07-02-2024 | 46.8 | 42.3 |
| FEB'24 | 21-02-2024 | 46.8 | 42.8 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.
***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

MORPAR UG

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068




FEBRUARY 2024

Environment Laboratory

CMPDI

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/15 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 07-02-2024 | 08-02-2024 | 270 | 165 | 40 | 13 | 10 | Cloudy / Calm |
| 21-02-2024 | 22-02-2024 | 280 | 172 | 44 | 14 | 11 | Cloudy / Calm |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 07-02-2024 | 08-02-2024 | 291 | 180 | 42 | 13 | 11 | Cloudy / Calm |
| 21-02-2024 | 22-02-2024 | 276 | 162 | 40 | 12 | 10 | Cloudy / Calm |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 14 | 120 | |

| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 07-02-2024 | 08-02-2024 | 80 | 30 | 7 | BDL | Cloudy / Calm |
| 21-02-2024 | 22-02-2024 | 78 | 26 | 6 | BDL | Cloudy / Calm |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |

| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 07-02-2024 | 08-02-2024 | 76 | 28 | 7 | BDL | Cloudy / Calm |
| 21-02-2024 | 22-02-2024 | 74 | 24 | 6 | BDL | Cloudy / Calm |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA


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

| FAN HOUSE: | | UMUN1 | |
|--|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | Night time |
| FEB'24 | 07-02-2024 | 57.5 | 51.9 |
| FEB'24 | 24-02-2024 | 56.8 | 52.9 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| COLONY: | | UMUN2 | |
|--|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | Night time |
| FEB'24 | 07-02-2024 | 45.4 | 40.1 |
| FEB'24 | 24-02-2024 | 45.2 | 41.6 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

UMRER OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068




FEBRUARY 2024

Environment Laboratory

CMPDI

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

AN ISO 9001:2015 COMPANY

| | | | | | |
|---|--|--------------------|------------|---|--|
| Environment Laboratory CMPDI RI-IV, NAGPUR | | Test Report | |  | |
| TEST REPORT NO. | RIN/TR/FEB-24/16 | DATE OF ISSUE | 28-03-2024 | | |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | | LQR 47 | |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | | 16-02-24 TO 15-03-24 | |


| UMRER MANAGER OFFICE UJOOA1 | | | | | | | |
|--|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 06-02-2024 | 07-02-2024 | 5 | 5 | 2 | 6 | 10 | Cloudy / calm |
| 20-02-2024 | 21-02-2024 | 243 | 142 | 42 | 13 | 11 | |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | Cloudy / calm |

| NEAR WORKSHOP UJOOA2 | | | | | | | |
|--|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 06-02-2024 | 07-02-2024 | 5 | 5 | 2 | 6 | 10 | Cloudy / calm |
| 20-02-2024 | 21-02-2024 | 238 | 136 | 38 | 12 | 10 | |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | Cloudy / calm |

| KANWA VILLAGE UJOOA3 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|---------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 06-02-2024 | 07-02-2024 | 5 | 2 | 6 | BDL | Cloudy / calm | |
| 20-02-2024 | 21-02-2024 | 82 | 26 | 6 | BDL | | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | Cloudy / Calm | |

| NEAR PUMP HOUSE COLONY UJOOA4 | | | | | | | |
|-------------------------------|------------|--|-------------------|-----------------|-----------------|---------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 06-02-2024 | 07-02-2024 | 5 | 2 | 6 | 10 | Cloudy / calm | |
| 20-02-2024 | 21-02-2024 | 78 | 24 | 6 | BDL | | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | Cloudy / Calm | |


Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  TC-7102 |
|---|--------------------|---|

| | | | |
|---------------------------|--|---|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 |


| 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 |
| 06-02-2024 | 8.03 | 16 | 28 | BDL |
| 20-02-2024 | 8.07 | 22 | 32 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |

| ETP: UUOW2 | | | | |
|---|------------------|---------------|--------------|----------------|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS | | | |
| | pH | TSS (in mg/l) | COD(in mg/l) | O & G(in mg/l) |
| DETECTION LIMIT | 2 | 10 | 4 | 2 |
| 06-02-2024 | 8.2 | 18 | 24 | BDL |
| 20-02-2024 | 7.75 | 26 | 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 |
| 06-02-2024 | 26 | 10.8 |
| 20-02-2024 | 28 | 11.2 |
| GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS GSR 801E EPA 1993 | 100 | 30 |

J. Chay

Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

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

| CHP: | | UJON1 | |
|---|---------------------------|----------------------------------|------------------------------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) DAY TIME | NOISE LEVEL IN dB(A) NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| | FEB'24 | 07-02-2024 | 64.8 |
| FEB'24 | 21-02-2024 | 63.8 | 59.8 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| COLONY: | | UJON2 | |
|---|---------------------------|----------------------------------|------------------------------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) DAY TIME | NOISE LEVEL IN dB(A) NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| | FEB'24 | | 48.5 |
| FEB'24 | | 48.1 | 42.2 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

GHUGUS OC

WANI AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/17 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|--|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 03-02-2024 | 04-02-2024 | 327 | 207 | 63 | 23 | 12 | CLEAR / LIGHT BREEZE |
| 18-02-2024 | 19-02-2024 | 281 | 194 | 58 | 21 | 10 | CLEAR / CALM |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH FEBember 2000 | | 600 | 300 | - | 120 | 120 | |


| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|--|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 03-02-2024 | 04-02-2024 | 322 | 208 | 64 | 23 | 12 | CLEAR / LIGHT BREEZE |
| 18-02-2024 | 19-02-2024 | 339 | 224 | 61 | 22 | BDL | CLEAR / CALM |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH FEBember 2000 | | 600 | 300 | - | 120 | 120 | |

| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 03-02-2024 | 04-02-2024 | 93 | 43 | 17 | BDL | CLEAR / LIGHT BREEZE |
| 18-02-2024 | 19-02-2024 | 86 | 37 | 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 | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 03-02-2024 | 04-02-2024 | 81 | 35 | 16 | BDL | CLEAR / LIGHT BREEZE |
| 18-02-2024 | 19-02-2024 | 94 | 42 | 14 | BDL | CLEAR / CALM |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

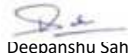
| | |
|--------------------|--|
| SAMPLE DESCRIPTION | NOISE SAMPLE |
| Test Required | CPCB PRFEBOCOL FOR AMBIENT NOISE MEASUREMENT, FEB-2015 |
| SAMPLING METHOD | LSOP 6 |

| CHP: WGON1 | | | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | | DETECTION LIMIT | 20 |
| FEB'24 | 08-02-2024 | 68.2 | 67.5 |
| FEB'24 | 24-02-2024 | 67.2 | 66.5 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| COLONY(GHUGUS): WGON2 | | | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | | DETECTION LIMIT | 20 |
| FEB'24 | 08-02-2024 | 44.7 | 43.5 |
| FEB'24 | 24-02-2024 | 43.7 | 42.4 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

KOLGAON OC

WANI AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|--|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  TC-7102 |
|---|--------------------|--|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/18 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| MANAGER OFFICE | | WKOA1 | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 04-02-2024 | 05-02-2024 | 287 | 194 | 59 | 20 | BDL | CLOUDY / LIGHT BREEZE |
| 26-02-2024 | 27-02-2024 | 318 | 208 | 64 | 22 | BDL | CLEAR / CALM |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH FEBember 2000 | | 600 | 300 | - | 120 | 120 | |


| SAM OFFICE | | WMOA2 | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 05-02-2024 | 06-02-2024 | 277 | 184 | 58 | 20 | BDL | CLOUDY / LIGHT BREEZE |
| 18-02-2024 | 19-02-2024 | 334 | 206 | 63 | 20 | 11 | CLEAR / LIGHT BREEZE |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH FEBember 2000 | | 600 | 300 | - | 120 | 120 | |

| KOLGAON VILLAGE | | WKOA3 | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|----------------------------|------------|--|-------------------|-----------------|-----------------|-----------------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 04-02-2024 | 05-02-2024 | 77 | 33 | 14 | BDL | CLOUDY / LIGHT BREEZE | |
| 26-02-2024 | 27-02-2024 | 91 | 39 | 15 | BDL | CLEAR / CALM | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| KAILSHNAGAR TOWNSHIP - FILTER PLANT | | WMOA3 | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|-------------------------------------|------------|--|-------------------|-----------------|-----------------|-------------------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 03-02-2024 | 04-02-2024 | 87 | 36 | 15 | BDL | CLEAR / LIGHT BREEZE | |
| 04-02-2024 | 05-02-2024 | 77 | 33 | 16 | BDL | CLEAR / MODERATE BREEZE | |
| 10-02-2024 | 11-02-2024 | 84 | 41 | 17 | BDL | CLEAR / LIGHT BREEZE | |
| 11-02-2024 | 12-02-2024 | 91 | 39 | 15 | BDL | CLEAR / MODERATE BREEZE | |
| 17-02-2024 | 18-02-2024 | 93 | 41 | 16 | BDL | CLEAR / LIGHT BREEZE | |
| 18-02-2024 | 19-02-2024 | 88 | 38 | 13 | BDL | CLEAR / LIGHT BREEZE | |
| 24-02-2024 | 25-02-2024 | 79 | 37 | 14 | BDL | CLEAR / CALM | |
| 25-02-2024 | 26-02-2024 | 84 | 41 | 16 | BDL | CLEAR / CALM | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|--|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017), TSS: IS 3025-Part 17:1984(RA 2017), COD: APHA (23rd Edition) 5220 C :2017, O & G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 |

| 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 |
| 04-02-2024 | 7.75 | 48 | 40 | BDL |
| 26-02-2024 | 8.11 | 52 | 36 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

| | |
|--------------------|--|
| SAMPLE DESCRIPTION | NOISE SAMPLE |
| Test Required | CPCB PRFEBOCOL FOR AMBIENT NOISE MEASUREMENT, FEB-2015 |
| SAMPLING METHOD | LSOP 6 |

| MANAGER OFFICE: WKON1 | | | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | | DETECTION LIMIT | 20 |
| FEB'24 | 08-02-2024 | 53.6 | 52.4 |
| FEB'24 | 24-02-2024 | 52.4 | 51.4 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| COLONY(MUNGOLI): WKON2 | | | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | | DETECTION LIMIT | 20 |
| FEB'24 | 08-02-2024 | 44.5 | 43.2 |
| FEB'24 | 21-02-2024 | 44.6 | 43.5 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CL / Government

ENVIRONMENTAL MONITORING REPORT

MUGOLI OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/19 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| SUBSTATION WMOA1 | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 05-02-2024 | 06-02-2024 | 283 | 188 | 58 | 20 | BDL | CLOUDY / LIGHT BREEZE |
| 18-02-2024 | 19-02-2024 | 318 | 209 | 63 | 22 | 11 | CLEAR / LIGHT BREEZE |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH FEBember 2000 | | 600 | 300 | - | 120 | 120 | |

| SAM OFFICE WMOA2 | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 05-02-2024 | 06-02-2024 | 277 | 184 | 58 | 20 | BDL | CLOUDY / LIGHT BREEZE |
| 18-02-2024 | 19-02-2024 | 334 | 206 | 63 | 20 | 11 | CLEAR / LIGHT BREEZE |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH FEBember 2000 | | 600 | 300 | - | 120 | 120 | |

| KAILSHNAGAR TOWNSHIP - FILTER PLANT WMOA3 | | | | | | | |
|---|------------|--|-------------------|-----------------|-----------------|--------------------------------------|--|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) | |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 03-02-2024 | 04-02-2024 | 87 | 36 | 15 | BDL | CLEAR / LIGHT BREEZE | |
| 04-02-2024 | 05-02-2024 | 77 | 33 | 16 | BDL | CLEAR / MODERATE BREEZE | |
| 10-02-2024 | 11-02-2024 | 84 | 41 | 17 | BDL | CLEAR / LIGHT BREEZE | |
| 11-02-2024 | 12-02-2024 | 91 | 39 | 15 | BDL | CLEAR / MODERATE BREEZE | |
| 17-02-2024 | 18-02-2024 | 93 | 41 | 16 | BDL | CLEAR / LIGHT BREEZE | |
| 18-02-2024 | 19-02-2024 | 88 | 38 | 13 | BDL | CLEAR / LIGHT BREEZE | |
| 24-02-2024 | 25-02-2024 | 79 | 37 | 14 | BDL | CLEAR / CALM | |
| 25-02-2024 | 26-02-2024 | 84 | 41 | 16 | BDL | CLEAR / CALM | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| TUBEWELL NEAR SAKHARA VILLAGE WMOA4 | | | | | | | |
|---------------------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|--|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) | |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 03-02-2024 | 04-02-2024 | 81 | 37 | 16 | BDL | CLEAR / LIGHT BREEZE | |
| 04-02-2024 | 05-02-2024 | 79 | 39 | 17 | BDL | CLEAR / MODERATE BREEZE | |
| 10-02-2024 | 11-02-2024 | 84 | 41 | 14 | BDL | CLEAR / LIGHT BREEZE | |
| 11-02-2024 | 12-02-2024 | 82 | 43 | 15 | BDL | CLEAR / MODERATE BREEZE | |
| 17-02-2024 | 18-02-2024 | 81 | 35 | 17 | BDL | CLEAR / LIGHT BREEZE | |
| 18-02-2024 | 19-02-2024 | 91 | 36 | 16 | BDL | CLEAR / LIGHT BREEZE | |
| 24-02-2024 | 25-02-2024 | 93 | 38 | 14 | BDL | CLEAR / CALM | |
| 25-02-2024 | 26-02-2024 | 86 | 37 | 15 | BDL | CLEAR / CALM | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|--|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 |

| 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 |
| 04-02-2024 | 7.02 | 38 | 32 | BDL |
| 18-02-2024 | 7.31 | 54 | 48 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |

| ETP DISCHARGE: WMOW2 | | | | |
|---|------------------|---------------|--------------|----------------|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS | | | |
| | pH | TSS (in mg/l) | COD(in mg/l) | O & G(in mg/l) |
| DETECTION LIMIT | 2 | 10 | 4 | 2 |
| 04-02-2024 | 7.18 | 42 | 32 | BDL |
| 18-02-2024 | 7.51 | 38 | 28 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

| | |
|--------------------|--|
| SAMPLE DESCRIPTION | NOISE SAMPLE |
| Test Required | CPCB PRFEBOCOL FOR AMBIENT NOISE MEASUREMENT, FEB-2015 |
| SAMPLING METHOD | LSOP 6 |

| CHP: WMON1 | | | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | | DETECTION LIMIT | 20 |
| FEB'24 | 08-02-2024 | 66.4 | 65.5 |
| FEB'24 | 21-02-2024 | 65.6 | 64.5 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| COLONY(MUNGOLI): WMON2 | | | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | | DETECTION LIMIT | 20 |
| FEB'24 | 08-02-2024 | 44.5 | 43.2 |
| FEB'24 | 21-02-2024 | 44.6 | 43.5 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

NAIGAON OC

WANI AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068




FEBRUARY 2024



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

AN ISO 9001:2015 COMPANY



| | | | | | |
|---|--|---------------------------|-----------------|---|------------|
| Environment Laboratory CMPDI RI-IV, NAGPUR | | Test Report | |  | |
| TEST REPORT NO. | | RIN/TR/FEB-24/20 | DATE OF ISSUE | | 28-03-2024 |
| NAME OF CUSTOMER | | GM(ENV.), WCL(HQ), NAGPUR | | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | | SAMPLING PLAN : | | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | | 16-02-24 TO 15-03-24 | |

| SAM OFFICE WNGOA1 | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 07-02-2024 | 08-02-2024 | 322 | 197 | 59 | 23 | 12 | CLEAR / LIGHT BREEZE |
| 21-02-2024 | 22-02-2024 | 334 | 209 | 64 | 21 | 11 | CLEAR / CALM |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH FEBember 2000 | | 600 | 300 | - | 120 | 120 | |


| WORKSHOP ETP NOCM WNOA2 | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 04-02-2024 | 05-02-2024 | 294 | 186 | 58 | 19 | BDL | CLOUDY / MODERATE BREEZE |
| 19-02-2024 | 20-02-2024 | 327 | 227 | 64 | 22 | BDL | CLEAR / LIGHT BREEZE |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH FEBember 2000 | | 600 | 300 | 60 | 120 | 120 | |

| BELLORA REHABILITATION VILLAGE WNGOA2 | | | | | | | |
|---|------------|--|-------------------|-----------------|-----------------|----------------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 07-02-2024 | 08-02-2024 | 91 | 42 | 17 | BDL | CLEAR / LIGHT BREEZE | |
| 21-02-2024 | 22-02-2024 | 86 | 36 | 15 | BDL | CLEAR / CALM | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| FILTER PLANT NEAR VIP GUEST HOUSE WNGOA3 | | | | | | | |
|--|------------|--|-------------------|-----------------|-----------------|----------------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 07-02-2024 | 08-02-2024 | 87 | 33 | 15 | BDL | CLEAR / LIGHT BREEZE | |
| 21-02-2024 | 22-02-2024 | 93 | 38 | 17 | BDL | CLEAR / CALM | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |



Analysed by


| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|--|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 |

| 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 |
| 07-02-2024 | 3.78 | 34 | 20 | BDL |
| 22-02-2024 | 7.38 | 38 | 28 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |

| ETP DISCHARGE: WNGOW2 | | | | |
|---|------------------|---------------|--------------|----------------|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS | | | |
| | pH | TSS (in mg/l) | COD(in mg/l) | O & G(in mg/l) |
| DETECTION LIMIT | 2 | 10 | 4 | 2 |
| 07-02-2024 | 8.02 | 42 | 36 | BDL |
| 22-02-2024 | 7.99 | 48 | 44 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |


Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

| | |
|--------------------|--|
| SAMPLE DESCRIPTION | NOISE SAMPLE |
| Test Required | CPCB PRFEBOCOL FOR AMBIENT NOISE MEASUREMENT, FEB-2015 |
| SAMPLING METHOD | LSOP 6 |

| CHP: WNGON1 | | | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | NIGHT TIME |
| FEB'24 | 13-02-2024 | 66.7 | 65.1 |
| FEB'24 | 26-02-2024 | 68.1 | 66.3 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| COLONY(GHUGUS): WNGON1 | | | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | NIGHT TIME |
| FEB'24 | 08-02-2024 | 44.7 | 43.5 |
| FEB'24 | 24-02-2024 | 43.7 | 42.4 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floo Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

NILJAI DEEP OC

WANI AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|--|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  TC-7182 |
|---|--------------------|--|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/21 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|--|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 04-02-2024 | 05-02-2024 | 289 | 194 | 63 | 20 | BDL | CLEAR / LIGHT BREEZE |
| 19-02-2024 | 20-02-2024 | 337 | 216 | 60 | 22 | BDL | CLOUDY / LIGHT BREEZE |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH FEBember 2000 | | 600 | 300 | - | 120 | 120 | |

| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|--|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 04-02-2024 | 05-02-2024 | 294 | 186 | 58 | 19 | BDL | CLOUDY / MODERATE BREEZE |
| 19-02-2024 | 20-02-2024 | 327 | 227 | 64 | 22 | BDL | CLEAR / LIGHT BREEZE |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH FEBember 2000 | | 600 | 300 | - | 120 | 120 | |

| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 03-02-2024 | 04-02-2024 | 93 | 43 | 16 | BDL | CLEAR / LIGHT BREEZE |
| 04-02-2024 | 05-02-2024 | 87 | 37 | 14 | BDL | CLEAR / MODERATE BREEZE |
| 10-02-2024 | 11-02-2024 | 77 | 32 | 15 | BDL | CLEAR / LIGHT BREEZE |
| 11-02-2024 | 12-02-2024 | 82 | 41 | 16 | BDL | CLEAR / MODERATE BREEZE |
| 17-02-2024 | 18-02-2024 | 86 | 39 | 15 | BDL | CLEAR / LIGHT BREEZE |
| 18-02-2024 | 19-02-2024 | 83 | 37 | 16 | BDL | CLEAR / LIGHT BREEZE |
| 24-02-2024 | 25-02-2024 | 85 | 40 | 13 | BDL | CLEAR / CALM |
| 25-02-2024 | 26-02-2024 | 91 | 42 | 14 | BDL | CLEAR / CALM |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |

| TARODA VILLAGE WNOA4 | | | | | | |
|-------------------------------|------------|--|------------------------------|----------------------------|-----------------------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| | | PM₁₀ 5 | PM_{2.5} 2 | NO₂ 6 | SO₂ 10 | |
| FROM | TO | | | | | |
| 03-02-2024 | 04-02-2024 | 88 | 34 | 17 | BDL | CLEAR / LIGHT BREEZE |
| 04-02-2024 | 05-02-2024 | 84 | 39 | 16 | BDL | CLEAR / MODERATE BREEZE |
| 10-02-2024 | 11-02-2024 | 87 | 41 | 15 | BDL | CLEAR / LIGHT BREEZE |
| 11-02-2024 | 12-02-2024 | 77 | 38 | 14 | BDL | CLEAR / MODERATE BREEZE |
| 17-02-2024 | 18-02-2024 | 74 | 41 | 15 | BDL | CLEAR / LIGHT BREEZE |
| 18-02-2024 | 19-02-2024 | 80 | 37 | 16 | BDL | CLEAR / LIGHT BREEZE |
| 24-02-2024 | 25-02-2024 | 74 | 38 | 17 | BDL | CLEAR / CALM |
| 25-02-2024 | 26-02-2024 | 86 | 41 | 16 | BDL | CLEAR / CALM |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|--|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 |

| 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 |
| 03-02-2024 | 7.64 | 38 | 32 | BDL |
| 19-02-2024 | 6.74 | 46 | 28 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |

| ETP(NILJAI-S)TREATED WATER: WNOW2 | | | | |
|---|------------------|---------------|--------------|----------------|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS | | | |
| | pH | TSS (in mg/l) | COD(in mg/l) | O & G(in mg/l) |
| DETECTION LIMIT | 2 | 10 | 4 | 2 |
| 03-02-2024 | 7.97 | 42 | 32 | BDL |
| 19-02-2024 | 7.92 | 26 | 28 | 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 |
| 03-02-2024 | 78 | 11.4 |
| 19-02-2024 | 64 | 10.8 |
| GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS GSR 801E EPA 1993 | 100 | 30 |


Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|


NOISE LEVEL MONITORING DATA

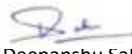
| | |
|--------------------|--|
| SAMPLE DESCRIPTION | NOISE SAMPLE |
| Test Required | CPCB PRFEBOCOL FOR AMBIENT NOISE MEASUREMENT, FEB-2015 |
| SAMPLING METHOD | LSOP 6 |

| CHP-NILJAI: | | WNON1 | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 13-02-2024 | 67.5 | 65.6 |
| FEB'24 | 26-02-2024 | 67.4 | 65.4 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| CHP-NILJAI(S): | | WNON2 | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'23 | 13-02-2024 | 68.4 | 66.3 |
| FEB'23 | 26-02-2024 | 68.5 | 66.5 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| COLONY(NILJAI): | | WNON3 | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'23 | 13-02-2024 | 45.1 | 43.4 |
| FEB'23 | 26-02-2024 | 44.4 | 42.1 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |


Ashwin B Wasnik
Reviewed by


Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laborat activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

PENGANGA OC

WANI AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | | | | |
|---|--|--------------------|------------|---|--|
| Environment Laboratory CMPDI RI-IV, NAGPUR | | Test Report | |  | |
| TEST REPORT NO. | RIN/TR/FEB-24/23 | DATE OF ISSUE | 28-03-2024 | | |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | | LQR 47 | |
| SAMPLING METHOD : LSP0 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | | 16-02-24 TO 15-03-24 | |

| MANAGER OFFICE WPOA1 | | | | | | | |
|--|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| | | 5 | 5 | 2 | 6 | 10 | |
| 05-02-2024 | 06-02-2024 | 279 | 183 | 59 | 20 | BDL | CLEAR / LIGHT BREEZE |
| 19-02-2024 | 20-02-2024 | 328 | 208 | 64 | 22 | BDL | CLEAR / MODERATE BRREEZE |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECEMBER 2000 | | 600 | 300 | - | 120 | 120 | |


| NEAR MINE WPOA2 | | | | | | | |
|--|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| | | 5 | 5 | 2 | 6 | 10 | |
| 05-02-2024 | 06-02-2024 | 284 | 183 | 59 | 21 | 10 | CLEAR / LIGHT BREEZE |
| 19-02-2024 | 20-02-2024 | 327 | 212 | 63 | 23 | 11 | CLEAR / MODERATE BRREEZE |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECEMBER 2000 | | 600 | 300 | - | 120 | 120 | |

| VIRUR VILLAGE WPOA3 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| | | 5 | 2 | 6 | 10 | | |
| 03-02-2024 | 04-02-2024 | 79 | 34 | 16 | BDL | | CLEAR / MODERATE BRREEZE |
| 04-02-2024 | 05-02-2024 | 82 | 39 | 15 | BDL | | CLEAR / LIGHT BREEZE |
| 10-02-2024 | 11-02-2024 | 84 | 41 | 16 | BDL | | CLEAR / MODERATE BRREEZE |
| 11-02-2024 | 12-02-2024 | 77 | 33 | 15 | BDL | | CLEAR / LIGHT BREEZE |
| 17-02-2024 | 18-02-2024 | 84 | 34 | 14 | BDL | | CLEAR / MODERATE BRREEZE |
| 18-02-2024 | 19-02-2024 | 77 | 33 | 17 | BDL | | CLEAR / LIGHT BREEZE |
| 24-02-2024 | 25-02-2024 | 84 | 42 | 16 | BDL | | CLEAR / MODERATE BRREEZE |
| 25-02-2024 | 26-02-2024 | 76 | 37 | 15 | BDL | | CLEAR / LIGHT BREEZE |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| GADEGAON VILLAGE WPOA4 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| | | 5 | 2 | 6 | 10 | | |
| 03-02-2024 | 04-02-2024 | 83 | 38 | 15 | BDL | | CLEAR / MODERATE BRREEZE |
| 04-02-2024 | 05-02-2024 | 79 | 34 | 14 | BDL | | CLEAR / LIGHT BREEZE |
| 10-02-2024 | 11-02-2024 | 87 | 40 | 13 | BDL | | CLEAR / MODERATE BRREEZE |
| 11-02-2024 | 12-02-2024 | 91 | 37 | 17 | BDL | | CLEAR / LIGHT BREEZE |
| 17-02-2024 | 18-02-2024 | 84 | 39 | 16 | BDL | | CLEAR / MODERATE BRREEZE |
| 18-02-2024 | 19-02-2024 | 87 | 41 | 17 | BDL | | CLEAR / LIGHT BREEZE |
| 24-02-2024 | 25-02-2024 | 76 | 32 | 16 | BDL | | CLEAR / MODERATE BRREEZE |
| 25-02-2024 | 26-02-2024 | 83 | 32 | 17 | BDL | | CLEAR / LIGHT BREEZE |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |



Analysed by


| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|--|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 |

| MINE WATER DISCHARGE: WPOW1 | | | | |
|---|------------------|---------------|--------------|----------------|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS | | | |
| | pH | TSS (in mg/l) | COD(in mg/l) | O & G(in mg/l) |
| DETECTION LIMIT | 2 | 10 | 4 | 2 |
| 05-02-2024 | 8.21 | 42 | 36 | BDL |
| 18-02-2024 | 7.99 | 54 | 40 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

| | |
|--------------------|---|
| SAMPLE DESCRIPTION | NOISE SAMPLE |
| Test Required | CPCB PRDECCOL FOR AMBIENT NOISE MEASUREMENT, DEC-2015 |
| SAMPLING METHOD | LSOP 6 |

| NEAR WORKSHOP: WPON1 | | | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 08-02-2024 | 56.6 | 55.4 |
| FEB'24 | 24-02-2024 | 55.7 | 54.3 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.
***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

GHONSA OC

WANI NORTH AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

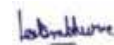
| | | | | | |
|---|--|--------------------|------------|---|--|
| Environment Laboratory CMPDI RI-IV, NAGPUR | | Test Report | |  | |
| TEST REPORT NO. | RIN/TR/FEB-24/23 | DATE OF ISSUE | 28-03-2024 | | |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | | LQR 47 | |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | | 16-02-24 TO 15-03-24 | |

| 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) |
| | | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| FROM | TO | 5 | 5 | 2 | 6 | 10 | |
| 11-02-2024 | 12-02-2024 | 375 | 299 | 36 | 17 | 11 | CLEAR / LIGHT BREEZE |
| 24-02-2024 | 25-02-2024 | 401 | 264 | 42 | 21 | 15 | CLEAR / LIGHT BREEZE |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECember 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) |
| | | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| FROM | TO | 5 | 5 | 2 | 6 | 10 | |
| 11-02-2024 | 12-02-2024 | 369 | 274 | 42 | 19 | 15 | CLEAR / LIGHT BREEZE |
| 24-02-2024 | 25-02-2024 | 383 | 217 | 46 | 18 | 13 | CLEAR / LIGHT BREEZE |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECember 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) | |
| | | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| FROM | TO | 5 | 2 | 6 | 10 | | |
| 11-02-2024 | 12-02-2024 | 96 | 28 | 10 | BDL | CLEAR / LIGHT BREEZE | |
| 24-02-2024 | 25-02-2024 | 79 | 23 | 8 | BDL | CLEAR / LIGHT BREEZE | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| GUEST HOUSE/ COLONY WNGOA4 | | | | | | | |
|------------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|--|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) | |
| | | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| FROM | TO | 5 | 2 | 6 | 10 | | |
| 11-02-2024 | 12-02-2024 | 76 | 28 | 17 | BDL | CLEAR / LIGHT BREEZE | |
| 24-02-2024 | 25-02-2024 | 82 | 21 | 8 | BDL | CLEAR / LIGHT BREEZE | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

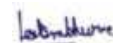


Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|--|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 |

| 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 |
| 11-02-2024 | 7.59 | 30 | 44 | BDL |
| 25-02-2024 | 7.70 | 24 | 36 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

| | |
|--------------------|--|
| SAMPLE DESCRIPTION | NOISE SAMPLE |
| Test Required | CPCB PRDECOCOL FOR AMBIENT NOISE MEASUREMENT, DEC-2015 |
| SAMPLING METHOD | LSOP 6 |

| MANAGER OFFICE: WNGON1 | | | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 55.4 | 54.5 |
| FEB'24 | 24-02-2024 | 54.6 | 53.4 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| COLONY (GHONSA) WNGON2 | | | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 44.2 | 43.4 |
| FEB'24 | 24-02-2024 | 43.8 | 42.5 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

JUNAD OC

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



FEBRUARY 2024



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

AN ISO 9001:2015 COMPANY



| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/24 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| SAM OFFICE WNJOA1 | | | | | | | |
|--|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 09-02-2024 | 10-02-2024 | 378 | 289 | 37 | 17 | 11 | CLOUDY / CALM |
| 23-02-2024 | 24-02-2024 | 392 | 212 | 45 | 20 | 15 | CLOUDY / LIGHT BREEZE |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECEMBER 2000 | | 600 | 300 | - | 120 | 120 | |


| BORGAON VILLAGE WNJOA2 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 09-02-2024 | 10-02-2024 | 83 | 22 | 8 | BDL | | CLOUDY / CALM |
| 23-02-2024 | 24-02-2024 | 92 | 26 | 9 | BDL | | CLOUDY / LIGHT BREEZE |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| BHALAR TOWNSHIP WNUOA3 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 08-02-2024 | 09-02-2024 | 88 | 24 | 10 | BDL | | CLEAR / LIGHT BREEZE |
| 22-02-2024 | 23-02-2024 | 96 | 27 | 8 | BDL | | CLOUDY / CALM |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| UKNI VILLAGE WNUOA4 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 08-02-2024 | 09-02-2024 | 79 | 27 | 9 | BDL | | CLEAR / LIGHT BREEZE |
| 22-02-2024 | 23-02-2024 | 93 | 21 | 10 | BDL | | CLOUDY / CALM |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |



Analysed by


| | | | | |
|---|--|--|----------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | | Test Report | |  |
| SAMPLE DESCRIPTION | Water sample | | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 | |

| 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 |
| 09-02-2024 | 7.88 | 48 | 52 | BDL |
| 24-02-2024 | 7.30 | 38 | 48 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |

| ETP DISCHARGE: WNJOW2 | | | | |
|--|------------------|---------------|--------------|----------------|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS | | | |
| | pH | TSS (in mg/l) | COD(in mg/l) | O & G(in mg/l) |
| DETECTION LIMIT | 2 | 10 | 4 | 2 |
| 09-02-2024 | 7.78 | 36 | 48 | BDL |
| 24-02-2024 | 7.85 | 28 | 40 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

| | |
|--------------------|--|
| SAMPLE DESCRIPTION | NOISE SAMPLE |
| Test Required | CPCB PRDECOCOL FOR AMBIENT NOISE MEASUREMENT, DEC-2015 |
| SAMPLING METHOD | LSOP 6 |

| MANAGER OFFICE: WNJON1 | | | |
|--|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 13-02-2024 | 56.4 | 54.3 |
| FEB'24 | 26-02-2024 | 53.4 | 52.5 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| BHALAR COLONY: WNJON2 | | | |
|--|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 13-02-2024 | 46.1 | 44.3 |
| FEB'24 | 26-02-2024 | 45.3 | 43.2 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.
***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

KOLARPIMPRI OC

WANI NORTH AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/25 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| SUBSTATION KOLARPIMPRI WNKOA1 | | | | | | | |
|--|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 01-02-2024 | 02-02-2024 | 388 | 296 | 48 | 20 | 14 | CLEAR / CALM |
| 16-02-2024 | 17-02-2024 | 401 | 221 | 40 | 18 | 12 | CLEAR / LIGHT BREEZE |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECEMBER 2000 | | 600 | 300 | - | 120 | 120 | |

| REST SHELTER WNKOA2 | | | | | | | |
|--|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 01-02-2024 | 02-02-2024 | 395 | 214 | 45 | 19 | 12 | CLEAR / CALM |
| 16-02-2024 | 17-02-2024 | 427 | 242 | 37 | 22 | 16 | CLEAR / LIGHT BREEZE |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECEMBER 2000 | | 600 | 300 | - | 120 | 120 | |

| PIMPRI VILLAGE WNKOA3 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 01-02-2024 | 02-02-2024 | 78 | 20 | 7 | BDL | CLOUDY / MODERATE BREEZE | |
| 02-02-2024 | 03-02-2024 | 82 | 27 | 9 | BDL | CLEAR / LIGHT BREEZE | |
| 08-02-2024 | 09-02-2024 | 94 | 24 | 10 | BDL | CLEAR / LIGHT BREEZE | |
| 09-02-2024 | 10-02-2024 | 72 | 26 | 8 | BDL | CLEAR / MODERATE BREEZE | |
| 15-02-2024 | 16-02-2024 | 88 | 20 | 7 | BDL | CLEAR / LIGHT BREEZE | |
| 16-02-2024 | 17-02-2024 | 86 | 26 | 9 | BDL | CLEAR / LIGHT BREEZE | |
| 22-02-2024 | 23-02-2024 | 93 | 20 | 10 | BDL | CLEAR / LIGHT BREEZE | |
| 23-02-2024 | 24-02-2024 | 71 | 28 | 8 | BDL | CLEAR / CALM | |
| 29-02-2024 | 01-03-2024 | 85 | 29 | 10 | BDL | CLEAR / CALM | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| WATER FILTER PLANT PRAGATI NAGAR WNKOA4 | | | | | | | |
|---|------------|--|-------------------|-----------------|-----------------|--------------------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 01-02-2024 | 02-02-2024 | 81 | 30 | 10 | BDL | CLOUDY / MODERATE BREEZE | |
| 02-02-2024 | 03-02-2024 | 93 | 24 | 8 | BDL | CLEAR / LIGHT BREEZE | |
| 08-02-2024 | 09-02-2024 | 75 | 28 | 9 | BDL | CLEAR / LIGHT BREEZE | |
| 09-02-2024 | 10-02-2024 | 89 | 30 | 9 | BDL | CLEAR / MODERATE BREEZE | |
| 15-02-2024 | 16-02-2024 | 94 | 21 | 10 | BDL | CLEAR / LIGHT BREEZE | |
| 16-02-2024 | 17-02-2024 | 97 | 27 | 9 | BDL | CLEAR / LIGHT BREEZE | |
| 22-02-2024 | 23-02-2024 | 76 | 29 | 9 | BDL | CLEAR / LIGHT BREEZE | |
| 23-02-2024 | 24-02-2024 | 89 | 32 | 10 | BDL | CLEAR / CALM | |
| 29-02-2024 | 01-03-2024 | 71 | 25 | 8 | BDL | CLEAR / CALM | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |


Analysed by


| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|--|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 |

| MINE WATER DISCHARGE: WNKOW1 | | | | |
|---|------------------|---------------|--------------|----------------|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS | | | |
| | pH | TSS (in mg/l) | COD(in mg/l) | O & G(in mg/l) |
| DETECTION LIMIT | 2 | 10 | 4 | 2 |
| 02-02-2024 | 7.73 | 36 | 48 | BDL |
| 22-02-2024 | 7.45 | 32 | 44 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

| | |
|--------------------|--|
| SAMPLE DESCRIPTION | NOISE SAMPLE |
| Test Required | CPCB PRDECOCOL FOR AMBIENT NOISE MEASUREMENT, DEC-2015 |
| SAMPLING METHOD | LSOP 6 |

| CHP: WNKON1 | | | |
|--|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | | DETECTION LIMIT | 20 |
| FEB'24 | 13-02-2024 | 67.2 | 65.3 |
| FEB'24 | 26-02-2024 | 67.4 | 65.3 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| COLONY PRAGATI NAGAR: WNPON2 | | | |
|--|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | | DETECTION LIMIT | 20 |
| FEB'24 | 13-02-2024 | 45.4 | 43.3 |
| FEB'24 | 26-02-2024 | 45.5 | 43.6 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.
***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated
either directly or indirectly to the press or to any person not holding
an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

PIMPALGAON OC

WANI NORTH AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/27 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| SAM OFFICE WNPOA1 | | | | | | | |
|--|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| | | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| FROM | TO | 5 | 5 | 2 | 6 | 10 | |
| 10-02-2024 | 11-02-2024 | 391 | 209 | 34 | 18 | 14 | CLOUDY / LIGHT BREEZE |
| 23-02-2024 | 24-02-2024 | 411 | 227 | 43 | 16 | 11 | CLOUDY / LIGHT BREEZE |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECEMBER 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) |
| | | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| FROM | TO | 5 | 5 | 2 | 6 | 10 | |
| 10-02-2024 | 11-02-2024 | 401 | 212 | 41 | 19 | 15 | CLOUDY / LIGHT BREEZE |
| 23-02-2024 | 24-02-2024 | 431 | 236 | 34 | 23 | 19 | CLOUDY / LIGHT BREEZE |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECEMBER 2000 | | 600 | 300 | - | 120 | 120 | |

| WATER FILTER PLANT PRAGATI NAGAR WNKO4 | | | | | | | |
|--|------------|--|-------------------|-----------------|-----------------|--|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| | | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| FROM | TO | 5 | 2 | 6 | 10 | | |
| 01-02-2024 | 02-02-2024 | 81 | 30 | 10 | BDL | | CLOUDY / MODERATE BREEZE |
| 02-02-2024 | 03-02-2024 | 93 | 24 | 8 | BDL | | CLEAR / LIGHT BREEZE |
| 08-02-2024 | 09-02-2024 | 75 | 28 | 9 | BDL | | CLEAR / LIGHT BREEZE |
| 09-02-2024 | 10-02-2024 | 89 | 30 | 9 | BDL | | CLEAR / MODERATE BREEZE |
| 15-02-2024 | 16-02-2024 | 94 | 21 | 10 | BDL | | CLEAR / LIGHT BREEZE |
| 16-02-2024 | 17-02-2024 | 97 | 27 | 9 | BDL | | CLEAR / LIGHT BREEZE |
| 22-02-2024 | 23-02-2024 | 76 | 29 | 9 | BDL | | CLEAR / LIGHT BREEZE |
| 23-02-2024 | 24-02-2024 | 89 | 32 | 10 | BDL | | CLEAR / CALM |
| 29-02-2024 | 01-03-2024 | 71 | 25 | 8 | BDL | | CLEAR / 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) |
| | | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| FROM | TO | 5 | 2 | 6 | 10 | | |
| 09-02-2024 | 10-02-2024 | 83 | 22 | 8 | BDL | | CLOUDY / CALM |
| 23-02-2024 | 24-02-2024 | 92 | 26 | 9 | BDL | | CLOUDY / LIGHT BREEZE |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

labdhare

Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|--|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 |

| MINE WATER DISCHARGE: WNPOW1 | | | | |
|---|------------------|---------------|--------------|----------------|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS | | | |
| | pH | TSS (in mg/l) | COD(in mg/l) | O & G(in mg/l) |
| DETECTION LIMIT | 2 | 10 | 4 | 2 |
| 10-02-2024 | 3.45 | 34 | 26 | BDL |
| 24-02-2024 | 3.76 | 28 | 32 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

| | |
|--------------------|--|
| SAMPLE DESCRIPTION | NOISE SAMPLE |
| Test Required | CPCB PRDECOCOL FOR AMBIENT NOISE MEASUREMENT, DEC-2015 |
| SAMPLING METHOD | LSOP 6 |

| CHP: WNPON1 | | | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | | DETECTION LIMIT | 20 |
| FEB'24 | 13-02-2024 | 64.5 | 63.5 |
| FEB'24 | 26-02-2024 | 66.1 | 64.3 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| COLONY PRAGATI NAGAR: WNPON2 | | | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | | DETECTION LIMIT | 20 |
| FEB'24 | 13-02-2024 | 45.4 | 43.3 |
| FEB'24 | 26-02-2024 | 45.5 | 43.6 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

RAJUR UG

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|--|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  TC-7182 |
|---|--------------------|--|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/28 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| NEAR BANDEWADA INCLINE | | WNRUA1 | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 14-02-2024 | 15-02-2024 | 384 | 201 | 37 | 17 | 11 | CLEAR / LIGHT BREEZE |
| 25-02-2024 | 26-02-2024 | 417 | 232 | 44 | 20 | 14 | CLEAR / LIGHT BREEZE |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECEMBER 2000 | | 600 | 300 | - | 120 | 120 | |

| SAM OFFICE | | WNRUA2 | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 14-02-2024 | 15-02-2024 | 421 | 242 | 45 | 20 | 15 | CLEAR / LIGHT BREEZE |
| 25-02-2024 | 26-02-2024 | 388 | 204 | 37 | 18 | 12 | CLEAR / LIGHT BREEZE |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECEMBER 2000 | | 600 | 300 | - | 120 | 120 | |

| PIT OFFICE | | WNRUA3 | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 14-02-2024 | 15-02-2024 | 98 | 32 | 9 | BDL | CLEAR / LIGHT BREEZE |
| 25-02-2024 | 26-02-2024 | 79 | 39 | 10 | BDL | CLEAR / LIGHT BREEZE |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |

| HUTMENT | | WNRUA4 | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 14-02-2024 | 15-02-2024 | 94 | 29 | 10 | BDL | CLEAR / LIGHT BREEZE |
| 25-02-2024 | 26-02-2024 | 81 | 24 | 8 | BDL | CLEAR / LIGHT BREEZE |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |

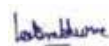


Analysed by


| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|--|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 |

| 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 |
| 14-02-2024 | 7.42 | 32 | 48 | BDL |
| 25-02-2024 | 7.87 | 24 | 36 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

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

| FAN HOUSE: | | WNRUN1 | |
|--|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | NIGHT TIME |
| | | | 20 |
| FEB'24 | 10-02-2024 | 62.0 | 61.4 |
| FEB'24 | 24-02-2024 | 61.5 | 60.3 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| COLONY RAJUR: | | WNRUN2 | |
|--|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | NIGHT TIME |
| | | | 20 |
| FEB'24 | 10-02-2024 | 44.6 | 43.3 |
| FEB'24 | 24-02-2024 | 44.0 | 43.6 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laborat activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

UKNI DEEP OC

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068




FEBRUARY 2024



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

AN ISO 9001:2015 COMPANY



| | | | | |
|---|--|---------------------------|----------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | | Test Report | |  |
| TEST REPORT NO. | RIN/TR/FEB-24/29 | DATE OF ISSUE | 28-03-2024 | |
| NAME OF CUSTOMER | | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 | |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 | |


| WORKSHOP PREMISES WNUOA1 | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|-----------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| | | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| FROM | TO | 5 | 5 | 2 | 6 | 10 | |
| 08-02-2024 | 09-02-2024 | 418 | 321 | 40 | 18 | 14 | CLEAR / CALM |
| 22-02-2024 | 23-02-2024 | 380 | 288 | 45 | 22 | 19 | CLOUDY / LIGHT BREEZE |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECember 2000 | | 600 | 300 | - | 120 | 120 | |

| BHALAR TOWNSHIP WNUOA2 | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|-----------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| | | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| FROM | TO | 5 | 2 | 6 | 10 | |
| 08-02-2024 | 09-02-2024 | 88 | 24 | 10 | BDL | CLEAR / LIGHT BREEZE |
| 22-02-2024 | 23-02-2024 | 96 | 27 | 8 | BDL | CLOUDY / CALM |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |

| UKNI VILLAGE WNUOA3 | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|-----------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| | | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| FROM | TO | 5 | 2 | 6 | 10 | |
| 08-02-2024 | 09-02-2024 | 79 | 27 | 9 | BDL | CLEAR / LIGHT BREEZE |
| 22-02-2024 | 23-02-2024 | 93 | 21 | 10 | BDL | CLOUDY / CALM |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |

| PIMPRI VILLAGE WNKOA3 | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|-----------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| | | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| FROM | TO | 5 | 2 | 6 | 10 | |
| 01-02-2024 | 02-02-2024 | 78 | 20 | 7 | BDL | CLOUDY / MODERATE BREEZE |
| 02-02-2024 | 03-02-2024 | 82 | 27 | 9 | BDL | CLEAR / LIGHT BREEZE |
| 08-02-2024 | 09-02-2024 | 94 | 24 | 10 | BDL | CLEAR / LIGHT BREEZE |
| 09-02-2024 | 10-02-2024 | 72 | 26 | 8 | BDL | CLEAR / MODERATE BREEZE |
| 15-02-2024 | 16-02-2024 | 88 | 20 | 7 | BDL | CLEAR / LIGHT BREEZE |
| 16-02-2024 | 17-02-2024 | 86 | 26 | 9 | BDL | CLEAR / LIGHT BREEZE |
| 22-02-2024 | 23-02-2024 | 93 | 20 | 10 | BDL | CLEAR / LIGHT BREEZE |
| 23-02-2024 | 24-02-2024 | 71 | 28 | 8 | BDL | CLEAR / CALM |
| 29-02-2024 | 01-03-2024 | 85 | 29 | 10 | BDL | CLEAR / CALM |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |


Analysed by

| | | | | | |
|---|--|--|--|---|--|
| Environment Laboratory CMPDI RI-IV, NAGPUR | | Test Report | |  | |
| SAMPLE DESCRIPTION | Water sample | | | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 | |

| 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 |
| 08-02-2024 | 7.13 | 30 | 48 | BDL |
| 23-02-2024 | 7.01 | 26 | 40 | 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 |
| 08-02-2024 | 7.95 | 24 | 32 | BDL |
| 23-02-2024 | 7.89 | 28 | 40 | 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 |
| 08-02-2024 | 52 | 16 |
| 23-02-2024 | 28 | 12 |
| GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS GSR 801E EPA 1993 | 100 | 30 |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

| | |
|--------------------|--|
| SAMPLE DESCRIPTION | NOISE SAMPLE |
| Test Required | CPCB PRDECOCOL FOR AMBIENT NOISE MEASUREMENT, DEC-2015 |
| SAMPLING METHOD | LSOP 6 |

| CHP: WNUON1 | | | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | | DETECTION LIMIT | 20 |
| FEB'24 | 13-02-2024 | 68.4 | 66.5 |
| FEB'24 | 26-02-2024 | 68.7 | 66.1 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| BHALAR COLONY: WNUON2 | | | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | | DETECTION LIMIT | 20 |
| FEB'24 | 13-02-2024 | 46.1 | 44.3 |
| FEB'24 | 26-02-2024 | 45.3 | 43.2 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratc activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated
either directly or indirectly to the press or to any person not
holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

WANI RAILWAY SIDING

WANI NORTH AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|


| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/30 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| 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 ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| | | 5 | 5 | 2 | 6 | 10 | |
| 01-02-2024 | 02-02-2024 | 187 | 132 | 33 | 12 | BDL | CLOUDY / MODERATE BREEZE |
| 02-02-2024 | 03-02-2024 | 179 | 147 | 36 | 14 | 11 | CLEAR / LIGHT BREEZE |
| 08-02-2024 | 09-02-2024 | 201 | 165 | 31 | 10 | BDL | CLEAR / LIGHT BREEZE |
| 09-02-2024 | 10-02-2024 | 187 | 153 | 38 | 11 | BDL | CLEAR / MODERATE BREEZE |
| 15-02-2024 | 16-02-2024 | 201 | 160 | 35 | 10 | BDL | CLEAR / LIGHT BREEZE |
| 16-02-2024 | 17-02-2024 | 193 | 155 | 30 | 13 | BDL | CLEAR / LIGHT BREEZE |
| 22-02-2024 | 23-02-2024 | 166 | 134 | 39 | 10 | BDL | CLEAR / LIGHT BREEZE |
| 23-02-2024 | 24-02-2024 | 182 | 151 | 36 | 11 | BDL | CLEAR / CALM |
| 29-02-2024 | 01-03-2024 | 159 | 138 | 30 | 12 | BDL | CLEAR / 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 | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| | | 5 | 2 | 6 | 10 | | |
| 01-02-2024 | 02-02-2024 | 98 | 25 | 7 | BDL | CLOUDY / MODERATE BREEZE | |
| 02-02-2024 | 03-02-2024 | 81 | 22 | 9 | BDL | CLEAR / LIGHT BREEZE | |
| 08-02-2024 | 09-02-2024 | 76 | 28 | 8 | BDL | CLEAR / LIGHT BREEZE | |
| 09-02-2024 | 10-02-2024 | 73 | 21 | 10 | BDL | CLEAR / MODERATE BREEZE | |
| 15-02-2024 | 16-02-2024 | 86 | 29 | 10 | BDL | CLEAR / LIGHT BREEZE | |
| 16-02-2024 | 17-02-2024 | 81 | 29 | 8 | BDL | CLEAR / LIGHT BREEZE | |
| 22-02-2024 | 23-02-2024 | 89 | 27 | 10 | BDL | CLEAR / LIGHT BREEZE | |
| 23-02-2024 | 24-02-2024 | 91 | 21 | 10 | BDL | CLEAR / CALM | |
| 29-02-2024 | 01-03-2024 | 97 | 24 | 9 | BDL | CLEAR / 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 | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| | | 5 | 2 | 6 | 10 | | |
| 01-02-2024 | 02-02-2024 | 88 | 20 | 9 | BDL | CLOUDY / MODERATE BREEZE | |
| 02-02-2024 | 03-02-2024 | 92 | 18 | 10 | BDL | CLEAR / LIGHT BREEZE | |
| 08-02-2024 | 09-02-2024 | 97 | 26 | 10 | BDL | CLEAR / LIGHT BREEZE | |
| 09-02-2024 | 10-02-2024 | 70 | 24 | 8 | BDL | CLEAR / MODERATE BREEZE | |
| 15-02-2024 | 16-02-2024 | 82 | 21 | 7 | BDL | CLEAR / LIGHT BREEZE | |
| 16-02-2024 | 17-02-2024 | 71 | 26 | 10 | BDL | CLEAR / LIGHT BREEZE | |
| 22-02-2024 | 23-02-2024 | 84 | 22 | 8 | BDL | CLEAR / LIGHT BREEZE | |
| 23-02-2024 | 24-02-2024 | 72 | 20 | 9 | BDL | CLEAR / CALM | |
| 29-02-2024 | 01-03-2024 | 89 | 29 | 10 | BDL | CLEAR / CALM | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |


Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

| | |
|--------------------|---|
| SAMPLE DESCRIPTION | NOISE SAMPLE |
| Test Required | CPCB PRDECOCOL FOR AMBIENT NOISE MEASUREMENT, DECUST-2015 |
| SAMPLING METHOD | LSOP 6 |

| Residential Area Near Railway siding | | WNRSN1 | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 13-02-2024 | 44.6 | 42.3 |
| FEB'24 | 26-02-2024 | 46.4 | 44.3 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| NEAR INCHARGE OFFICE: | | WNRSN2 | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 13-02-2024 | 57.4 | 55.3 |
| FEB'24 | 26-02-2024 | 57.5 | 55.4 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

AMBARA OC

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423067



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|--|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  TC-7102 |
|---|--------------------|--|


| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/67 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES : | | 16-02-24 TO 15-03-24 |

| MANAGER OFFICE KAOA1 | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 11-02-2024 | 12-02-2024 | 251 | 145 | 40 | 13 | 10 | Cloudy/Light breeze |
| 26-02-2024 | 27-02-2024 | 265 | 152 | 45 | 14 | 11 | Clear/Light breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| PIT OFFICE- MOHAN KAU2 | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 11-02-2024 | 12-02-2024 | 238 | 135 | 38 | 12 | 10 | Cloudy/Light breeze |
| 25-02-2024 | 26-02-2024 | 248 | 142 | 42 | 13 | 11 | Clear/Light breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| COLONY HEALTH CENTER KMUA3 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|---------------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 14-02-2024 | 15-02-2024 | 76 | 26 | 6 | BDL | Cloudy/Light breeze | |
| 26-02-2024 | 27-02-2024 | 80 | 28 | 7 | BDL | Clear/Light breeze | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| AMBARA VILLAGE KMUA4 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|---------------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 14-02-2024 | 15-02-2024 | 74 | 24 | 6 | BDL | Cloudy/Light breeze | |
| 25-02-2024 | 26-02-2024 | 78 | 28 | 7 | BDL | Clear/Light breeze | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |


Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

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

| MANAGER OFFICE: KAON1 | | | |
|---|-----------------|----------------------|------------|
| MONTH | DATE OF SAMPLE | NOISE LEVEL IN dB(A) | |
| | COLLECTION | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 07-02-2024 | 44.6 | 43.4 |
| FEB'24 | 24-02-2024 | 47.4 | 45.6 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| COLONY(MOHAN/MAORI): KMUN2 | | | |
|---|-----------------|----------------------|------------|
| MONTH | DATE OF SAMPLE | NOISE LEVEL IN dB(A) | |
| | COLLECTION | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 07-02-2024 | 44.3 | 43.5 |
| FEB'24 | 24-02-2024 | 43.5 | 42.7 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

GHORAWARI OC

KANHAN AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423067



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY


| | | | | | |
|---|--|--------------------|------------|---|--|
| Environment Laboratory CMPDI RI-IV, NAGPUR | | Test Report | |  | |
| TEST REPORT NO. | RIN/TR/FEB-24/70 | DATE OF ISSUE | 28-03-2024 | | |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | | LQR 47 | |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | | 16-02-24 TO 15-03-24 | |

| 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 ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 08-02-2024 | 09-02-2024 | 232 | 135 | 38 | 12 | 10 | Clear/ Light breeze |
| 24-02-2024 | 25-02-2024 | 248 | 145 | 42 | 13 | 11 | Clear/ Light breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| SAM-OFFICE GHORAWARI KJUA2 | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 08-02-2024 | 09-02-2024 | 236 | 132 | 36 | 11 | 10 | Clear/ Light breeze |
| 24-02-2024 | 25-02-2024 | 240 | 140 | 38 | 12 | 11 | Clear/ Light breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| COLONY HEALTH CENTER JHARNA KJUA3 | | | | | | | |
|-------------------------------------|------------|--|-------------------|-----------------|-----------------|---------------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 08-02-2024 | 09-02-2024 | 76 | 26 | 6 | BDL | Clear/ Light breeze | |
| 23-02-2024 | 24-02-2024 | 78 | 28 | 7 | BDL | Clear/ Light breeze | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |


| PANARA VILLAGE KJUA4 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|---------------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 09-02-2024 | 10-02-2024 | 80 | 24 | 6 | BDL | Clear/ Light breeze | |
| 24-02-2024 | 25-02-2024 | 82 | 28 | 7 | BDL | Clear/ Light breeze | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|---|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES : | 16-02-24 TO 15-03-24 |

| MINE WATER DISCHARGE: KGOW | | | | |
|---|------------------|---------------|--------------|----------------|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS | | | |
| | pH | TSS (in mg/l) | COD(in mg/l) | O & G(in mg/l) |
| DETECTION LIMIT | 2 | 10 | 4 | 2 |
| 09-02-2024 | 8.17 | 24 | 36 | BDL |
| 24-02-2024 | 6.79 | 22 | 32 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |


Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

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

| MANAGER OFFICE: | | KGON1 | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | NIGHT TIME |
| FEB'24 | 07-02-2024 | 44.6 | 43.4 |
| FEB'24 | 23-02-2024 | 44.6 | 42.4 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| COLONY(JHARNA): | | KGON2 | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | NIGHT TIME |
| FEB'24 | 07-02-2024 | 43.6 | 42.7 |
| FEB'24 | 23-02-2024 | 43.5 | 42.6 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

JHARNA / GHORAWARI UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423067



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/71 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| MANAGER OFFICE- JHARNA UG KJUA1 | | | | | | | |
|--|------------|---|------------------|-------------------|-----------------|-----------------|-----------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in µg/m ³) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| | | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| FROM | TO | 5 | 5 | 2 | 6 | 10 | |
| 08-02-2024 | 09-02-2024 | 245 | 142 | 40 | 12 | 10 | Clear/ Light breeze |
| 23-02-2024 | 24-02-2024 | 254 | 153 | 44 | 13 | 11 | Clear/ Light breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |


| SAM-OFFICE GHORAWARI KJUA2 | | | | | | | |
|--|------------|---|------------------|-------------------|-----------------|-----------------|-----------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in µg/m ³) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| | | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| FROM | TO | 5 | 5 | 2 | 6 | 10 | |
| 08-02-2024 | 09-02-2024 | 236 | 132 | 36 | 11 | 10 | Clear/ Light breeze |
| 24-02-2024 | 25-02-2024 | 240 | 140 | 38 | 12 | 11 | Clear/ Light breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| COLONY HEALTH CENTER JHARNA KJUA3 | | | | | | | |
|-------------------------------------|------------|---|-------------------|-----------------|-----------------|-----------------------------------|--|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in µg/m ³) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) | |
| | | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| FROM | TO | 5 | 2 | 6 | 10 | | |
| 08-02-2024 | 09-02-2024 | 76 | 26 | 6 | BDL | Clear/ Light breeze | |
| 23-02-2024 | 24-02-2024 | 78 | 28 | 7 | BDL | Clear/ Light breeze | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| PANARA VILLAGE KJUA4 | | | | | | | |
|----------------------------|------------|---|-------------------|-----------------|-----------------|-----------------------------------|--|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in µg/m ³) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) | |
| | | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| FROM | TO | 5 | 2 | 6 | 10 | | |
| 09-02-2024 | 10-02-2024 | 80 | 24 | 6 | BDL | Clear/ Light breeze | |
| 24-02-2024 | 25-02-2024 | 82 | 28 | 7 | BDL | Clear/ Light breeze | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

J. Singh

Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

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

| FAN HOUSE: KJUN1 | | | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | | DETECTION LIMIT | 20 |
| FEB'24 | 07-02-2024 | 44.5 | 43.3 |
| FEB'24 | 24-02-2024 | 43.6 | 42.4 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| COLONY: KJUN1 | | | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | | DETECTION LIMIT | 20 |
| FEB'24 | 07-02-2024 | 43.6 | 42.7 |
| FEB'24 | 24-02-2024 | 43.5 | 42.6 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

MOHAN/ MAORI UG

KANHAN AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423067



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|--|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  TC-7102 |
|---|--------------------|--|


| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/72 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| SAM OFFICE KMUA1 | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| | | 5 | 5 | 2 | 6 | 10 | |
| 10-02-2024 | 11-02-2024 | 245 | 147 | 44 | 12 | 10 | Cloudy/ Light breeze |
| 25-02-2024 | 26-02-2024 | 250 | 152 | 48 | 13 | 11 | Clear/Light breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| MANAGER OFFICE KMUA2 | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| | | 5 | 5 | 2 | 6 | 10 | |
| 11-02-2024 | 12-02-2024 | 251 | 145 | 40 | 13 | 10 | Cloudy/Light breeze |
| 26-02-2024 | 27-02-2024 | 265 | 152 | 45 | 14 | 11 | Clear/Light breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| COLONY HEALTH CENTER KMUA3 | | | | | | | |
|------------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|--|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) | |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| | | 5 | 2 | 6 | 10 | | |
| 14-02-2024 | 15-02-2024 | 76 | 26 | 6 | BDL | Cloudy/Light breeze | |
| 26-02-2024 | 27-02-2024 | 80 | 28 | 7 | BDL | Clear/Light breeze | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| AMBARA VILLAGE KMUA4 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|--|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) | |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| | | 5 | 2 | 6 | 10 | | |
| 14-02-2024 | 15-02-2024 | 74 | 24 | 6 | BDL | Cloudy/Light breeze | |
| 25-02-2024 | 26-02-2024 | 78 | 28 | 7 | BDL | Clear/Light breeze | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |


Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

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

| FAN HOUSE: | | KMUN1 | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | NIGHT TIME |
| FEB'24 | 07-02-2024 | 68.5 | 68.4 |
| FEB'24 | 24-02-2024 | 68.6 | 67.4 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| COLONY(MOHAN MAORI): | | KMUN2 | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | NIGHT TIME |
| FEB'24 | 07-02-2024 | 44.3 | 43.5 |
| FEB'24 | 24-02-2024 | 43.5 | 42.7 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
 2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
 3. This report refers to the values related to the items tested.
- ***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

NANDAN UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423067



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|--|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  TC-7102 |
|---|--------------------|--|


| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/73 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |


| SAM OFFICE- NANDAN I UG KNUA1 | | | | | | | |
|---|------------|---|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in µg/m ³) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 09-02-2024 | 10-02-2024 | 238 | 135 | 36 | 12 | 10 | Cloudy/Light breeze |
| 24-02-2024 | 25-02-2024 | 244 | 142 | 40 | 13 | 11 | Clear/Light breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| PIT OFFICE NANADAN II UG KNUA2 | | | | | | | |
|---|------------|---|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in µg/m ³) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 08-02-2024 | 09-02-2024 | 255 | 150 | 44 | 13 | 11 | Cloudy/Light breeze |
| 23-02-2024 | 24-02-2024 | 265 | 156 | 48 | 14 | 12 | Clear/Light breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| HEALTH CENTER-NANADAN UG KNUA3 | | | | | | | |
|----------------------------------|------------|---|-------------------|-----------------|-----------------|--------------------------------------|--|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in µg/m ³) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) | |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 09-02-2024 | 10-02-2024 | 80 | 26 | 7 | BDL | Cloudy/Light breeze | |
| 24-02-2024 | 25-02-2024 | 82 | 28 | 8 | BDL | Clear/Light breeze | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| NANDAN WATER FILTER PLANT KNUA4 | | | | | | | |
|-----------------------------------|------------|---|-------------------|-----------------|-----------------|--------------------------------------|--|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in µg/m ³) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) | |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 09-02-2024 | 10-02-2024 | 84 | 24 | 7 | BDL | Cloudy/Light breeze | |
| 23-02-2024 | 24-02-2024 | 86 | 28 | 8 | BDL | Clear/Light breeze | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |


 Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|---|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES : | 16-02-24 TO 15-03-24 |

| MINE WATER DISCHARGE: KNUW1 | | | | |
|---|------------------|---------------|--------------|----------------|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS | | | |
| | pH | TSS (in mg/l) | COD(in mg/l) | O & G(in mg/l) |
| DETECTION LIMIT | 2 | 10 | 4 | 2 |
| 08-02-2024 | 8.02 | 20 | 32 | BDL |
| 23-02-2024 | 7.44 | 26 | 36 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |

J. Singh

Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

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

| FAN HOUSE UG II: KNUN1 | | | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | NIGHT TIME |
| | | | 20 |
| FEB'24 | 07-02-2024 | 68.6 | 67.7 |
| FEB'24 | 24-02-2024 | 67.4 | 66.7 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| COLONY: KNUN2 | | | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | NIGHT TIME |
| | | | 20 |
| FEB'24 | 07-02-2024 | 43.7 | 42.6 |
| FEB'24 | 24-02-2024 | 43.5 | 42.6 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

SHARDA UG

KANHAN AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423067



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|--|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  TC:7182 |
|---|--------------------|--|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/74a | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |


| INCLINE SHARDA KSUA1 | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|--------------------------------------|--------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) | |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | | SO ₂ |
| 09-02-2024 | 10-02-2024 | 235 | 138 | 36 | 12 | 10 | Clear/Light breeze |
| 22-02-2024 | 23-02-2024 | 246 | 141 | 40 | 13 | 11 | Clear/Light breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| UMARIA FADALI VILLAGE KSUA2 | | | | | | |
|---|------------|--|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 10-02-2024 | 11-02-2024 | 76 | 26 | 6 | BDL | Clear/Light breeze |
| 23-02-2024 | 24-02-2024 | 78 | 28 | 7 | BDL | Clear/Light breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 100 | 60 | 80 | 80 | |

| TATARWADA VILLAGE KSUA3 | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 10-02-2024 | 11-02-2024 | 72 | 22 | 7 | BDL | Clear/Light breeze |
| 23-02-2024 | 24-02-2024 | 74 | 24 | 8 | BDL | Clear/Light breeze |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |

| JAMUNBADA DARBAR VILLAGE KSUA4 | | | | | | |
|----------------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 10-02-2024 | 11-02-2024 | 76 | 26 | 7 | BDL | Clear/Light breeze |
| 25-02-2024 | 26-02-2024 | 80 | 28 | 8 | BDL | Clear/Light breeze |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |


Analysed by

| | | | | |
|---|---|---|--|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | | Test Report | |  |
| SAMPLE DESCRIPTION | Water sample | | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: | | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES : | | 16-02-24 TO 15-03-24 |

| MINE WATER DISCHARGE: KSUW1 | | | | |
|---|------------------|---------------|--------------|----------------|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS | | | |
| | pH | TSS (in mg/l) | COD(in mg/l) | O & G(in mg/l) |
| DETECTION LIMIT | 2 | 10 | 4 | 2 |
| 09-02-2024 | 8.16 | 18 | 28 | BDL |
| 25-02-2024 | 8.32 | 16 | 24 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |

J. Singh

Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

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


| NEAR PIT OFFICE | | KSUN1 | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | NIGHT TIME |
| | FEB'24 | 07-02-2024 | 52.7 |
| FEB'24 | 23-02-2024 | 52.6 | 51.5 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| UMARIA FADALI VILLAGE | | KSUN2 | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | NIGHT TIME |
| | FEB'24 | 07-02-2024 | 43.6 |
| FEB'24 | 23-02-2024 | 43.4 | 43.2 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |

| TATARWADA VILLAGE | | KSUN3 | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | NIGHT TIME |
| | FEB'24 | 07-02-2024 | 43.7 |
| FEB'24 | 23-02-2024 | 43.5 | 42.5 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

TANDSI UG

KANHAN AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423067



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|--|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  TC:7182 |
|---|--------------------|--|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/74 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| WORKSHOP KTUA1 | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 07-02-2024 | 08-02-2024 | 240 | 145 | 42 | 13 | 11 | Cloudy/Light breeze |
| 20-02-2024 | 21-02-2024 | 255 | 152 | 44 | 14 | 12 | Clear/Light breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| LAMP ROOM KTUA2 | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 07-02-2024 | 08-02-2024 | 248 | 146 | 40 | 12 | 10 | Cloudy/Light breeze |
| 20-02-2024 | 21-02-2024 | 265 | 158 | 46 | 13 | 11 | Clear/Light breeze |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| COLONY NEAR HEALTH CENTER KTUA3 | | | | | | | |
|---------------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|--|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) | |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 07-02-2024 | 08-02-2024 | 82 | 32 | 7 | BDL | Cloudy/Light breeze | |
| 20-02-2024 | 21-02-2024 | 84 | 36 | 8 | BDL | Clear/Light breeze | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| JET HOSTEL KTUA4 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|--|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) | |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 07-02-2024 | 08-02-2024 | 80 | 30 | 7 | BDL | Cloudy/Light breeze | |
| 20-02-2024 | 21-02-2024 | 86 | 34 | 8 | BDL | Clear/Light breeze | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

J. Choug

Analysed by


| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|---|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES : | 16-02-24 TO 15-03-24 |

| MINE WATER DISCHARGE: KTUW1 | | | | |
|---|------------------|---------------|--------------|----------------|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS | | | |
| | pH | TSS (in mg/l) | COD(in mg/l) | O & G(in mg/l) |
| DETECTION LIMIT | 2 | 10 | 4 | 2 |
| 07-02-2024 | 8.02 | 20 | 28 | BDL |
| 20-02-2024 | 8.13 | 22 | 32 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

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

| FAN HOUSE: | | KTUN1 | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | NIGHT TIME |
| | | 20 | 20 |
| FEB'24 | 07-02-2024 | 67.7 | 68.5 |
| FEB'24 | 20-02-2024 | 69.4 | 68.3 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| COLONY(TANDSI): | | KTUN2 | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | NIGHT TIME |
| | | 20 | 20 |
| FEB'24 | 07-02-2024 | 43.7 | 42.6 |
| FEB'24 | 20-02-2024 | 43.6 | 43.2 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

CHATTARPUR I & II UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423067



FEBRUARY 2024



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

AN ISO 9001:2015 COMPANY



| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------------|--|----------------------|------------|
| TEST REPORT NO. | RIN/TR/FEB-24/75 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 | |

| 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 ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| | | 5 | 5 | 2 | 6 | 10 | |
| 03-02-2024 | 04-02-2024 | 334 | 218 | 63 | 23 | 11 | CLEAR / LIGHT BREEZE |
| 18-02-2024 | 19-02-2024 | 289 | 193 | 58 | 20 | BDL | CLOUDY / LIGHT BREEZE |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECember 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 ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| | | 5 | 5 | 2 | 6 | 10 | |
| 02-02-2024 | 03-02-2024 | 328 | 208 | 64 | 22 | BDL | CLEAR / LIGHT BREEZE |
| 17-02-2024 | 18-02-2024 | 274 | 183 | 60 | 20 | BDL | CLOUDY / LIGHT BREEZE |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECember 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 ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| | | 5 | 5 | 2 | 6 | 10 | |
| 02-02-2024 | 03-02-2024 | 337 | 192 | 63 | 23 | BDL | CLEAR / LIGHT BREEZE |
| 18-02-2024 | 19-02-2024 | 289 | 173 | 59 | 20 | BDL | CLOUDY / LIGHT BREEZE |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECember 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 | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| | | 5 | 2 | 6 | 10 | | |
| 08-02-2024 | 09-02-2024 | 89 | 38 | 15 | BDL | CLEAR / LIGHT BREEZE | |
| 17-02-2024 | 18-02-2024 | 80 | 34 | 13 | BDL | CLOUDY / LIGHT BREEZE | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|--|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 |

| 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 |
| 03-02-2024 | 8.35 | 44 | 32 | BDL |
| 18-02-2024 | 8.27 | 38 | 28 | 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 |
| 03-02-2024 | 8.62 | 38 | 28 | BDL |
| 18-02-2024 | 8.28 | 42 | 32 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

| | |
|--------------------|--|
| SAMPLE DESCRIPTION | NOISE SAMPLE |
| Test Required | CPCB PRDECOCOL FOR AMBIENT NOISE MEASUREMENT, DEC-2015 |
| SAMPLING METHOD | LSOP 6 |

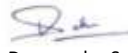
| FAN HOUSE-I UG: | | PKCUN1 | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | NIGHT TIME |
| | | 20 | 20 |
| FEB'24 | 03-02-2024 | 69.5 | 68.7 |
| FEB'24 | 18-02-2024 | 68.5 | 67.7 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| FAN HOUSE-II UG: | | PKCUN2 | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | NIGHT TIME |
| | | 20 | 20 |
| FEB'24 | 03-02-2024 | 67.7 | 67.4 |
| FEB'24 | 18-02-2024 | 68.6 | 67.6 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| COLONY: | | PKCUN3 | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | NIGHT TIME |
| | | 20 | 20 |
| FEB'24 | 03-02-2024 | 44.6 | 43.5 |
| FEB'24 | 18-02-2024 | 44.6 | 43.4 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

SARNI UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423067



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | | | | |
|---|--|--------------------|----------------------|---|--|
| Environment Laboratory CMPDI RI-IV, NAGPUR | | Test Report | |  | |
| TEST REPORT NO. | RIN/TR/FEB-24/76 | DATE OF ISSUE | 28-03-2024 | | |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | | LQR 47 | |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 | | |

| 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 ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 04-02-2024 | 05-02-2024 | 327 | 208 | 63 | 22 | 12 | CLOUDY / LIGHT BREEZE |
| 18-02-2024 | 19-02-2024 | 284 | 186 | 60 | 20 | BDL | CLEAR / LIGHT BRIDGE |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECember 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 ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 04-02-2024 | 05-02-2024 | 338 | 208 | 64 | 22 | BDL | CLOUDY / LIGHT BREEZE |
| 18-02-2024 | 19-02-2024 | 287 | 187 | 60 | 20 | BDL | CLEAR / LIGHT BRIDGE |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECember 2000 | | 600 | 300 | - | 120 | 120 | |

| GM OFFICE ENTRANCE GATE PKSUA3 | | | | | | | |
|--|------------|--|-------------------|-----------------|-----------------|--------------------------------------|--|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) | |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 03-02-2024 | 04-02-2024 | 89 | 38 | 16 | BDL | CLEAR / LIGHT BREEZE | |
| 17-02-2024 | 18-02-2024 | 78 | 34 | 14 | BDL | CLEAR / LIGHT BRIDGE | |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECember 2000 | | 100 | 60 | 80 | 80 | | |

| PATHAKHERA COLONY PKSUA4 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|--|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) | |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 03-02-2024 | 04-02-2024 | 83 | 39 | 15 | BDL | CLOUDY / LIGHT BREEZE | |
| 17-02-2024 | 18-02-2024 | 74 | 34 | 14 | BDL | CLEAR / LIGHT BRIDGE | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|--|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 |

| MINE WATER DISCHARGE: PKSUW1 | | | | |
|---|------------------|---------------|--------------|----------------|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS | | | |
| | pH | TSS (in mg/l) | COD(in mg/l) | O & G(in mg/l) |
| DETECTION LIMIT | 2 | 10 | 4 | 2 |
| 05-02-2024 | 8.25 | 38 | 28 | BDL |
| 20-02-2024 | 7.70 | 52 | 36 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

| | |
|--------------------|--|
| SAMPLE DESCRIPTION | NOISE SAMPLE |
| Test Required | CPCB PRDECOCOL FOR AMBIENT NOISE MEASUREMENT, DEC-2015 |
| SAMPLING METHOD | LSOP 6 |

| FAN HOUSE: | | PKSUN1 | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 04-02-2024 | 69.4 | 68.6 |
| FEB'24 | 18-02-2024 | 69.4 | 68.4 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| COLONY(SARNI): | | PKSUN2 | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 04-02-2024 | 44.5 | 43.2 |
| FEB'24 | 18-02-2024 | 43.7 | 42.6 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

SHOBHAPUR UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423067



FEBRUARY 2024



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

AN ISO 9001:2015 COMPANY



| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/77 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|--|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 03-02-2024 | 04-02-2024 | 311 | 204 | 62 | 23 | 11 | CLEAR / LIGHT BREEZE |
| 20-02-2024 | 21-02-2024 | 273 | 188 | 60 | 20 | BDL | CLOUDY/ LIGHT BREEZE |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DEcember 2000 | | 600 | 300 | - | 120 | 120 | |


| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|--|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 02-02-2024 | 03-02-2024 | 338 | 211 | 63 | 23 | BDL | CLEAR / LIGHT BREEZE |
| 18-02-2024 | 19-02-2024 | 288 | 197 | 59 | 20 | BDL | CLOUDY/ LIGHT BREEZE |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DEcember 2000 | | 600 | 300 | - | 120 | 120 | |

| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 04-02-2024 | 05-02-2024 | 86 | 36 | 17 | BDL | CLEAR / LIGHT BREEZE |
| 19-02-2024 | 20-02-2024 | 81 | 32 | 15 | BDL | CLOUDY/ LIGHT BREEZE |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |

| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 02-02-2024 | 03-02-2024 | 89 | 38 | 17 | BDL | CLEAR / LIGHT BREEZE |
| 19-02-2024 | 20-02-2024 | 77 | 35 | 16 | BDL | CLOUDY/ LIGHT BREEZE |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

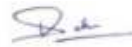
| | |
|--------------------|---|
| SAMPLE DESCRIPTION | NOISE SAMPLE |
| Test Required | CPCB PRDECCOL FOR AMBIENT NOISE MEASUREMENT, DEC-2015 |
| SAMPLING METHOD | LSOP 6 |

| FAN HOUSE: | | PKSUN1 | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | NIGHT TIME |
| FEB'24 | 04-02-2024 | 43.7 | 42.4 |
| FEB'24 | 18-02-2024 | 44.5 | 43.5 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| COLONY(SHOBHAPUR): | | PKSUN2 | |
|---|---------------------------|----------------------|-----------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | NIHT TIME |
| FEB'24 | 04-02-2024 | 44.3 | 43.5 |
| FEB'24 | 18-02-2024 | 43.7 | 43.2 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated
either directly or indirectly to the press or to any person not
holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

TAWA-II UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423067



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|--|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  TC-7102 |
|---|--------------------|--|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/78 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| 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 ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| | | 5 | 5 | 2 | 6 | 10 | |
| 04-02-2024 | 05-02-2024 | 334 | 218 | 64 | 22 | 12 | CLEAR / LIGHT BREEZE |
| 19-02-2024 | 20-02-2024 | 308 | 197 | 61 | 20 | BDL | CLEAR / LIGHT BREEZE |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECember 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 ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| | | 5 | 5 | 2 | 6 | 10 | |
| 04-02-2024 | 05-02-2024 | 289 | 200 | 58 | 22 | 11 | CLEAR / LIGHT BREEZE |
| 19-02-2024 | 20-02-2024 | 309 | 213 | 64 | 20 | BDL | CLEAR / LIGHT BREEZE |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECember 2000 | | 600 | 300 | - | 120 | 120 | |

| MPEB COLONY PKTUA3 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|--|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) | |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| | | 5 | 2 | 6 | 10 | | |
| 02-02-2024 | 03-02-2024 | 94 | 38 | 16 | BDL | CLEAR / LIGHT BREEZE | |
| 17-02-2024 | 18-02-2024 | 83 | 34 | 14 | BDL | CLEAR / LIGHT BREEZE | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| HIRA PALLA/BHAGAIKHAPA VILLAGE PKT2UA4 | | | | | | | |
|--|------------|--|-------------------|-----------------|-----------------|--------------------------------------|--|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) | |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| | | 5 | 2 | 6 | 10 | | |
| 04-02-2024 | 05-02-2024 | 88 | 38 | 15 | BDL | CLEAR / LIGHT BREEZE | |
| 19-02-2024 | 20-02-2024 | 82 | 35 | 14 | BDL | CLEAR / LIGHT BREEZE | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |



Analysed by


| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|--|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 |

| MINE WATER DISCHARGE: PKTUW1 | | | | |
|---|-------------------------|---------------|--------------|----------------|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS | | | |
| | pH | TSS (in mg/l) | COD(in mg/l) | O & G(in mg/l) |
| DETECTION LIMIT | 2 | 10 | 4 | 2 |
| 04-02-2024 | 8.02 | 42 | 36 | BDL |
| 19-02-2024 | 8.10 | 48 | 32 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

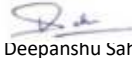
NOISE LEVEL MONITORING DATA

| | |
|--------------------|--|
| SAMPLE DESCRIPTION | NOISE SAMPLE |
| Test Required | CPCB PRDECOCOL FOR AMBIENT NOISE MEASUREMENT, DEC-2015 |
| SAMPLING METHOD | LSOP 6 |

| FAN HOUSE: | | PKTUN1 | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | NIGHT TIME |
| | | 20 | 20 |
| FEB'24 | 04-02-2024 | 69.7 | 68.4 |
| FEB'24 | 19-04-2024 | 69.6 | 68.7 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floo Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in theCIL / Government

ENVIRONMENTAL MONITORING REPORT

TAWA UG

PATHAKHERA AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423067



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|--|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  TC-7102 |
|---|--------------------|--|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/79 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|--|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 04-02-2024 | 05-02-2024 | 289 | 200 | 58 | 22 | 11 | CLEAR / LIGHT BREEZE |
| 19-02-2024 | 20-02-2024 | 309 | 213 | 64 | 20 | BDL | CLEAR / LIGHT BREEZE |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECEMBER 2000 | | 600 | 300 | - | 120 | 120 | |


| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|--|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 04-02-2024 | 05-02-2024 | 334 | 218 | 64 | 22 | 12 | CLEAR / LIGHT BREEZE |
| 19-02-2024 | 20-02-2024 | 308 | 197 | 61 | 20 | BDL | CLEAR / LIGHT BREEZE |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECEMBER 2000 | | 600 | 300 | - | 120 | 120 | |

| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 02-02-2024 | 03-02-2024 | 94 | 38 | 16 | BDL | CLEAR / LIGHT BREEZE |
| 17-02-2024 | 18-02-2024 | 83 | 34 | 14 | BDL | CLEAR / LIGHT BREEZE |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |

| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 04-02-2024 | 05-02-2024 | 88 | 38 | 15 | BDL | CLEAR / LIGHT BREEZE |
| 19-02-2024 | 20-02-2024 | 82 | 35 | 14 | BDL | CLEAR / LIGHT BREEZE |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |



Analysed by


| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|--|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 |

| MINE WATER DISCHARGE: PKTUW1 | | | | |
|---|------------------|---------------|--------------|----------------|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS | | | |
| | pH | TSS (in mg/l) | COD(in mg/l) | O & G(in mg/l) |
| DETECTION LIMIT | 2 | 10 | 4 | 2 |
| 04-02-2024 | 8.25 | 40 | 44 | BDL |
| 19-02-2024 | 8.05 | 46 | 40 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

| | |
|--------------------|--|
| SAMPLE DESCRIPTION | NOISE SAMPLE |
| Test Required | CPCB PRDECOCOL FOR AMBIENT NOISE MEASUREMENT, DEC-2015 |
| SAMPLING METHOD | LSOP 6 |

| FAN HOUSE: PKTUN1 | | | |
|---|-----------------|----------------------|------------|
| MONTH | DATE OF SAMPLE | NOISE LEVEL IN dB(A) | |
| | COLLECTION | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 04-02-2024 | 68.7 | 68.2 |
| FEB'24 | 19-04-2024 | 68.6 | 67.4 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| COLONY(TAWA): PKTUN2 | | | |
|---|-----------------|----------------------|------------|
| MONTH | DATE OF SAMPLE | NOISE LEVEL IN dB(A) | |
| | COLLECTION | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 04-02-2024 | 43.6 | 42.4 |
| FEB'24 | 19-04-2024 | 43.5 | 42.6 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

BARKUHI OC

PENCH AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423067



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

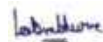
| | | | | | |
|---|--|--------------------|------------|---|--|
| Environment Laboratory CMPDI RI-IV, NAGPUR | | Test Report | |  | |
| TEST REPORT NO. | RIN/TR/FEB-24/54 | DATE OF ISSUE | 28-03-2024 | | |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017) | | | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 | | |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | | 16-02-24 TO 15-03-24 | |

| MANAGER OFFICE PBOA1 | | | | | | | |
|--|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| | | 5 | 5 | 2 | 6 | 10 | |
| 12-02-2024 | 13-02-2024 | 342 | 270 | 39 | 17 | 15 | CLEAR SKY / CALM |
| 25-02-2024 | 26-02-2024 | 420 | 227 | 45 | 19 | 15 | CLEAR SKY / CALM |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH NOVember 2000 | | 600 | 300 | - | 120 | 120 | |

| SAM OFFICE PBOA2 | | | | | | | |
|--|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| | | 5 | 5 | 2 | 6 | 10 | |
| 12-02-2024 | 13-02-2024 | 359 | 289 | 43 | 20 | 15 | CLEAR SKY / CALM |
| 25-02-2024 | 26-02-2024 | 388 | 283 | 35 | 17 | 11 | CLEAR SKY / CALM |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH NOVember 2000 | | 600 | 300 | - | 120 | 120 | |

| CHANDAMETA WORKSHOP PCWA1 | | | | | | | |
|--|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| | | 5 | 5 | 2 | 6 | 10 | |
| 13-02-2024 | 14-02-2024 | 389 | 299 | 47 | 19 | 15 | CLEAR SKY / CALM |
| 26-02-2024 | 27-02-2024 | 366 | 278 | 41 | 22 | 16 | CLEAR SKY / CALM |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH NOVember 2000 | | 600 | 300 | - | 120 | 120 | |

| CENTRAL SCHOOL PBOA4 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|--|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) | |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| | | 5 | 2 | 6 | 10 | | |
| 13-02-2024 | 14-02-2024 | 82 | 27 | 20 | 14 | CLEAR SKY / CALM | |
| 26-02-2024 | 27-02-2024 | 97 | 21 | 18 | 15 | CLEAR SKY / CALM | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|--|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 |

| ETP DISCHARGE: PBOW1 | | | | |
|---|------------------|---------------|--------------|----------------|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS | | | |
| | pH | TSS (in mg/l) | COD(in mg/l) | O & G(in mg/l) |
| DETECTION LIMIT | 2 | 10 | 4 | 2 |
| 13-02-2024 | 8.49 | 22 | 28 | BDL |
| 26-02-2024 | 9.87 | 24 | 32 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

| | |
|--------------------|--|
| SAMPLE DESCRIPTION | NOISE SAMPLE |
| Test Required | CPCB PRNOVOCOL FOR AMBIENT NOISE MEASUREMENT, NOV-2015 |
| SAMPLING METHOD | LSOP 6 |

| NEAR BARKUI HOSPITAL: PBON1 | | | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 43.4 | 42.1 |
| FEB'24 | 19-02-2024 | 45.7 | 44.1 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.
***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

CHANDAMETA WORKSHOP

PENCH AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423067



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY


| | | |
|---|--------------------|--|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  TC-7182 |
|---|--------------------|--|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/55 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|---|------------|--|------------------|-------------------|-----------------|-----------------|-----------------------------------|
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 13-02-2024 | 14-02-2024 | 389 | 299 | 47 | 19 | 15 | CLEAR SKY / CALM |
| 26-02-2024 | 27-02-2024 | 366 | 278 | 41 | 22 | 16 | CLEAR SKY / CALM |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH NOVember 2000 | | 600 | 300 | - | 120 | 120 | |




Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|--|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 |

| ETP DISCHARGE: PCWW1 | | ANALYSIS RESULTS | | | |
|---|-----------|------------------|--------------|----------------|-----------------|
| DATE OF SAMPLE COLLECTION | pH | TSS (in mg/l) | COD(in mg/l) | O & G(in mg/l) | DETECTION LIMIT |
| | | | | | 2 |
| 13-02-2024 | 8.50 | 26 | 32 | BDL | |
| 26-02-2024 | 9.41 | 22 | 28 | BDL | |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 | |

lab/klm
Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

| | |
|--------------------|--|
| SAMPLE DESCRIPTION | NOISE SAMPLE |
| Test Required | CPCB PRNOVOCOL FOR AMBIENT NOISE MEASUREMENT, NOV-2015 |
| SAMPLING METHOD | LSOP 6 |

| NEAR CHANDAMETA WORKSHOP: | | PCWN1 | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 44.9 | 43.3 |
| FEB'24 | 19-02-2024 | 46.2 | 44.9 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floo Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

CHINDA OC

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423067




FEBRUARY 2024



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

AN ISO 9001:2015 COMPANY



| | | |
|---|--------------------|--|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  TC:1102 |
|---|--------------------|--|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/56 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| SAM OFFICE PCOA1 | | | | | | | |
|--|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 12-02-2024 | 13-02-2024 | 370 | 299 | 34 | 18 | 11 | CLEAR SKY / CALM |
| 25-02-2024 | 26-02-2024 | 411 | 243 | 44 | 19 | 14 | CLEAR SKY / CALM |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH NOVember 2000 | | 600 | 300 | - | 120 | 120 | |

| CHINDA OC - SITE PCOA2 | | | | | | | |
|--|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 11-02-2024 | 12-02-2024 | 350 | 262 | 38 | 17 | 13 | CLEAR SKY / CALM |
| 24-02-2024 | 25-02-2024 | 272 | 241 | 46 | 19 | 11 | CLEAR SKY / CALM |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH NOVember 2000 | | 600 | 300 | - | 120 | 120 | |

| CHINDA VILLAGE PCOA3 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|------------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 12-02-2024 | 13-02-2024 | 90 | 23 | 9 | BDL | CLEAR SKY / CALM | |
| 25-02-2024 | 26-02-2024 | 81 | 29 | 10 | BDL | CLEAR SKY / CALM | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| CHINDA COLONY PNSOA2 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|------------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 11-02-2024 | 12-02-2024 | 91 | 24 | 10 | BDL | CLEAR SKY / CALM | |
| 24-02-2024 | 25-02-2024 | 75 | 28 | 9 | BDL | CLEAR SKY / CALM | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|--|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 |

| 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 |
| 12-02-2024 | 8.30 | 26 | 36 | BDL |
| 24-02-2024 | 7.78 | 30 | 44 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |

labdure

Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

| | |
|--------------------|--|
| SAMPLE DESCRIPTION | NOISE SAMPLE |
| Test Required | CPCB PRNOVOCOL FOR AMBIENT NOISE MEASUREMENT, NOV-2015 |
| SAMPLING METHOD | LSOP 6 |

| NEAR MANAGER OFFICE: PCON1 | | | |
|---|-----------------|----------------------|------------|
| MONTH | DATE OF SAMPLE | NOISE LEVEL IN dB(A) | |
| | COLLECTION | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 46.5 | 45.4 |
| FEB'24 | 19-02-2024 | 45.9 | 44.4 |
| 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 |
| FEB'24 | 10-02-2024 | 43.3 | 42.2 |
| FEB'24 | 19-02-2024 | 45.1 | 44.2 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

DHANKASA UG

PENCH AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423067



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/66a | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|----------------------------|------------|--|-------------------|-----------------|-----------------|-----------------------------------|
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 05-02-2024 | 06-02-2024 | 85 | 22 | 10 | BDL | CLEAR SKY / CALM |
| 18-02-2024 | 19-02-2024 | 71 | 29 | 9 | 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 | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 05-02-2024 | 06-02-2024 | 79 | 26 | 8 | BDL | CLEAR SKY / CALM |
| 18-02-2024 | 19-02-2024 | 86 | 20 | 10 | BDL | CLEAR SKY / CALM |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |

| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|----------------------------|------------|--|-------------------|-----------------|-----------------|-----------------------------------|
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 05-02-2024 | 06-02-2024 | 95 | 28 | 9 | BDL | CLEAR SKY / CALM |
| 18-02-2024 | 19-02-2024 | 74 | 24 | 8 | 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 | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 05-02-2024 | 06-02-2024 | 72 | 21 | 10 | BDL | CLEAR SKY / CALM |
| 18-02-2024 | 19-02-2024 | 82 | 28 | 9 | BDL | CLEAR SKY / CALM |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |

| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|--|------------|--|------------------|-------------------|-----------------|-----------------|-----------------------------------|
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 05-02-2024 | 06-02-2024 | 361 | 279 | 47 | 21 | 19 | CLEAR SKY / CALM |
| 18-02-2024 | 19-02-2024 | 386 | 260 | 41 | 19 | 16 | CLEAR SKY / CALM |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH NOVember 2000 | | 600 | 300 | - | 120 | 120 | |

lab. signature

Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|---------------------------|--|---|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 |

| MINE WATER DISCHARGE: PDUW1 | | 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 |
| 05-02-2024 | 8.2 | 22 | 32 | BDL |
| 29-02-2024 | 8.26 | 24 | 36 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |


Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

| | |
|--------------------|--|
| SAMPLE DESCRIPTION | NOISE SAMPLE |
| Test Required | CPCB PRNOVOCOL FOR AMBIENT NOISE MEASUREMENT, NOV-2015 |
| SAMPLING METHOD | LSOP 6 |

| BHUMKADHANA VILLAGE | | PDUN1 | |
|--|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | NIGHT TIME |
| FEB'24 | 10-02-2024 | 44.4 | 43.1 |
| FEB'24 | 19-02-2024 | 44.4 | 42.9 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |

| CHARUN KHAPA VILLAGE | | PDUN2 | |
|--|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | NIGHT TIME |
| FEB'24 | 10-02-2024 | 43.2 | 41.8 |
| FEB'24 | 19-02-2024 | 45.2 | 44.1 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |

| BANKI VILLAGE | | PDUN3 | |
|--|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | NIGHT TIME |
| FEB'24 | 10-02-2024 | 43.7 | 42.2 |
| FEB'24 | 19-02-2024 | 45.8 | 43.8 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |

| DIGHAWANI VILLAGE | | PDUN4 | |
|--|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | NIGHT TIME |
| FEB'24 | 10-02-2024 | 44.1 | 43.1 |
| FEB'24 | 19-02-2024 | 44.7 | 42.9 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |

| MANAGER OFFICE | | PDUN5 | |
|--|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | NIGHT TIME |
| FEB'24 | 10-02-2024 | 46.6 | 44.9 |
| FEB'24 | 19-02-2024 | 47.4 | 45.5 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

JAMUNIA UG

PENCH AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423067



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|--|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  TC-7142 |
|---|--------------------|--|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/58 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| MANAGER OFFICE PJUA1 | | | | | | | |
|--|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| | | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| FROM | TO | 5 | 5 | 2 | 6 | 10 | |
| 06-02-2024 | 07-02-2024 | 342 | 267 | 39 | 22 | 16 | CLEAR / CALM |
| 19-02-2024 | 20-02-2024 | 402 | 241 | 44 | 18 | 15 | CLEAR / CALM |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH NOVember 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) |
| | | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| FROM | TO | 5 | 5 | 2 | 6 | 10 | |
| 06-02-2024 | 07-02-2024 | 337 | 257 | 44 | 20 | 15 | CLEAR / CALM |
| 19-02-2024 | 20-02-2024 | 388 | 260 | 38 | 19 | 15 | CLEAR / CALM |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH NOVember 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) | |
| | | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| FROM | TO | 5 | 2 | 6 | 10 | | |
| 06-02-2024 | 07-02-2024 | 76 | 29 | 9 | BDL | CLEAR / CALM | |
| 19-02-2024 | 20-02-2024 | 82 | 28 | 10 | 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) | |
| | | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| FROM | TO | 5 | 2 | 6 | 10 | | |
| 07-02-2024 | 08-02-2024 | 89 | 26 | 8 | BDL | CLEAR SKY / CALM | |
| 20-02-2024 | 21-02-2024 | 96 | 29 | 10 | BDL | CLEAR SKY / CALM | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

| | |
|--------------------|--|
| SAMPLE DESCRIPTION | NOISE SAMPLE |
| Test Required | CPCB PRNOVOCOL FOR AMBIENT NOISE MEASUREMENT, NOV-2015 |
| SAMPLING METHOD | LSOP 6 |

| MANAGER OFFICE: PJUN1 | | | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 45.8 | 43.7 |
| FEB'24 | 19-02-2024 | 45.1 | 43.8 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

MAHADEOPURI UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423067



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|--|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  TC-7102 |
|---|--------------------|--|

| | | | |
|-------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/59 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| MANAGER OFFICE PMUA1 | | | | | | | |
|--|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 04-02-2024 | 05-02-2024 | 410 | 292 | 38 | 22 | 15 | CLEAR SKY / CALM |
| 17-02-2024 | 18-02-2024 | 381 | 286 | 46 | 17 | 12 | CLEAR SKY / CALM |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH NOVember 2000 | | 600 | 300 | - | 120 | 120 | |

| LAMP ROOM PMUA2 | | | | | | | |
|--|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 04-02-2024 | 05-02-2024 | 374 | 287 | 46 | 19 | 15 | CLEAR SKY / CALM |
| 17-02-2024 | 18-02-2024 | 390 | 293 | 37 | 22 | 16 | CLEAR SKY / CALM |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH NOVember 2000 | | 600 | 300 | - | 120 | 120 | |

| GUEST HOUSE PARASIA PMUA3 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|------------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 04-02-2024 | 05-02-2024 | 79 | 29 | 8 | BDL | CLEAR SKY / CALM | |
| 17-02-2024 | 18-02-2024 | 86 | 22 | 10 | BDL | CLEAR SKY / CALM | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| COLONY EDC DISPENSARY PMUA4 | | | | | | | |
|-----------------------------|------------|--|-------------------|-----------------|-----------------|------------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 04-02-2024 | 05-02-2024 | 87 | 27 | 10 | BDL | CLEAR SKY / CALM | |
| 17-02-2024 | 18-02-2024 | 96 | 24 | 8 | BDL | CLEAR SKY / CALM | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|--|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 |

| MINE WATER DISCHARGE: PMUW1 | | | | |
|--|------------------|---------------|--------------|----------------|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS | | | |
| | pH | TSS (in mg/l) | COD(in mg/l) | O & G(in mg/l) |
| DETECTION LIMIT | 2 | 10 | 4 | 2 |
| 04-02-2024 | 8.15 | 28 | 44 | BDL |
| 18-02-2024 | 7.25 | 26 | 40 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

| | |
|--------------------|---|
| SAMPLE DESCRIPTION | NOISE SAMPLE |
| Test Required | CPCB PRNOVOLCOL FOR AMBIENT NOISE MEASUREMENT, NOV-2015 |
| SAMPLING METHOD | LSOP 6 |

| FAN HOUSE: | | PMUN1 | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 67.1 | 66.4 |
| FEB'24 | 19-02-2024 | 69.2 | 68.4 |
| 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 |
| FEB'24 | 10-02-2024 | 44.2 | 42.5 |
| FEB'24 | 19-02-2024 | 45.2 | 43.8 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor. Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.
***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

NEHARIA UG

PENCH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423067



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/60 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| SAM OFFICE PNUA1 | | | | | | | |
|--|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| | | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| FROM | TO | 5 | 5 | 2 | 6 | 10 | |
| 07-02-2024 | 08-02-2024 | 421 | 234 | 42 | 18 | 14 | CLEAR SKY / CALM |
| 20-02-2024 | 21-02-2024 | 399 | 211 | 37 | 20 | 14 | CLEAR SKY / CALM |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH NOVember 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) |
| | | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| FROM | TO | 5 | 5 | 2 | 6 | 10 | |
| 07-02-2024 | 08-02-2024 | 417 | 227 | 46 | 21 | 15 | CLEAR SKY / CALM |
| 20-02-2024 | 21-02-2024 | 381 | 297 | 40 | 22 | 18 | CLEAR SKY / CALM |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH NOVember 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) |
| | | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| FROM | TO | 5 | 2 | 6 | 10 | | |
| 07-02-2024 | 08-02-2024 | 98 | 30 | 9 | BDL | | CLEAR SKY / CALM |
| 20-02-2024 | 21-02-2024 | 84 | 24 | 10 | BDL | | CLEAR SKY / 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) |
| | | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| FROM | TO | 5 | 2 | 6 | 10 | | |
| 07-02-2024 | 08-02-2024 | 89 | 26 | 8 | BDL | | CLEAR SKY / CALM |
| 20-02-2024 | 21-02-2024 | 96 | 29 | 10 | BDL | | CLEAR SKY / CALM |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|--|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 |

| 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 |
| 07-02-2024 | 8.05 | 32 | 48 | BDL |
| 21-02-2024 | 7.68 | 28 | 44 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |

| ETP DISCHARGE: PNUW2 | | | | |
|---|------------------|---------------|--------------|----------------|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS | | | |
| | pH | TSS (in mg/l) | COD(in mg/l) | O & G(in mg/l) |
| DETECTION LIMIT | 2 | 10 | 4 | 2 |
| 07-02-2024 | 8.57 | 26 | 32 | BDL |
| 21-02-2024 | 8.42 | 20 | 28 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |

labukare

Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

| | |
|--------------------|--|
| SAMPLE DESCRIPTION | NOISE SAMPLE |
| Test Required | CPCB PRNOVOCOL FOR AMBIENT NOISE MEASUREMENT, NOV-2015 |
| SAMPLING METHOD | LSOP 6 |

| FAN HOUSE: PNUN1 | | | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | | DETECTION LIMIT | 20 |
| FEB'24 | 10-02-2024 | 69.3 | 68.1 |
| FEB'24 | 19-02-2024 | 69.2 | 68.1 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| COLONY: PNUN2 | | | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | | DETECTION LIMIT | 20 |
| FEB'24 | 10-02-2024 | 44.4 | 43.5 |
| FEB'24 | 19-02-2024 | 45.4 | 44.9 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
 2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
 3. This report refers to the values related to the items tested.
- ***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated
either directly or indirectly to the press or to any person not holding
an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

NEW SETHIA OC

PENCH AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423067



FEBUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|--|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  TC-7102 |
|---|--------------------|--|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/61 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| NEW SETHIA OC SITE | | PNSOA1 | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|--|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| | | 5 | 5 | 2 | 6 | 10 | |
| 11-02-2024 | 12-02-2024 | 361 | 276 | 32 | 18 | 15 | CLEAR SKY / CALM |
| 24-02-2024 | 25-02-2024 | 396 | 282 | 39 | 21 | 14 | CLEAR SKY / CALM |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH NOVember 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 ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| | | 5 | 5 | 2 | 6 | 10 | |
| 12-02-2024 | 13-02-2024 | 370 | 299 | 34 | 18 | 11 | CLEAR SKY / CALM |
| 25-02-2024 | 26-02-2024 | 411 | 243 | 44 | 19 | 14 | CLEAR SKY / CALM |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH NOVember 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 | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| | | 5 | 2 | 6 | 10 | |
| 12-02-2024 | 13-02-2024 | 90 | 23 | 9 | BDL | CLEAR SKY / CALM |
| 25-02-2024 | 26-02-2024 | 81 | 29 | 10 | BDL | CLEAR SKY / CALM |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |

| CHINDA COLONY | | PNSOA2 | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| | | 5 | 2 | 6 | 10 | |
| 11-02-2024 | 12-02-2024 | 91 | 24 | 10 | BDL | CLEAR SKY / CALM |
| 24-02-2024 | 25-02-2024 | 75 | 28 | 9 | BDL | CLEAR SKY / CALM |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|--|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 |

| 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 |
| 11-02-2024 | 8.33 | 28 | 40 | BDL |
| 24-02-2024 | 7.69 | 22 | 32 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |

lab/...

Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

| | |
|--------------------|--|
| SAMPLE DESCRIPTION | NOISE SAMPLE |
| Test Required | CPCB PRNOVOCOL FOR AMBIENT NOISE MEASUREMENT, NOV-2015 |
| SAMPLING METHOD | LSOP 6 |

| NEAR MANAGER OFFICE: PSON1 | | NOISE LEVEL IN dB(A) | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | DAY TIME | NIGHT TIME |
| | | DETECTION LIMIT | 20 |
| FEB'24 | 10-02-2024 | 45.2 | 43.7 |
| FEB'24 | 19-02-2024 | 46.1 | 44.7 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| COLONY CHINDA: PCON2 | | NOISE LEVEL IN dB(A) | |
|---|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | DAY TIME | NIGHT TIME |
| | | DETECTION LIMIT | 20 |
| FEB'24 | 10-02-2024 | 43.3 | 42.2 |
| FEB'24 | 19-02-2024 | 45.1 | 44.2 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

SHIVPURI OC

PENCH AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423067



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|--|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  TC-7102 |
|---|--------------------|--|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-23/62 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| 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 ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 09-02-2024 | 10-02-2024 | 5 | 5 | 2 | 6 | 10 | CLEAR SKY / CALM |
| 22-02-2024 | 23-02-2024 | 349 | 267 | 37 | 18 | 11 | CLEAR SKY / CALM |
| | | 361 | 288 | 45 | 15 | 11 | CLEAR SKY / CALM |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH NOVember 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 ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 10-02-2024 | 11-02-2024 | 5 | 5 | 2 | 6 | 10 | CLEAR SKY / CALM |
| 23-02-2024 | 24-02-2024 | 430 | 251 | 37 | 20 | 13 | CLEAR SKY / CALM |
| | | 411 | 223 | 40 | 17 | 11 | CLEAR SKY / CALM |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH NOVember 2000 | | 600 | 300 | - | 120 | 120 | |

| COLONY GUEST HOUSE SHIVPURI PSOA3 | | | | | | | |
|-------------------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|--|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) | |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 09-02-2024 | 10-02-2024 | 5 | 2 | 6 | 10 | CLEAR SKY / CALM | |
| 22-02-2024 | 23-02-2024 | 94 | 22 | 10 | BDL | CLEAR SKY / CALM | |
| | | 84 | 28 | 8 | BDL | CLEAR SKY / CALM | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| CHINDA VILLAGE PCOA3 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|--|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) | |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 12-02-2024 | 13-02-2024 | 5 | 2 | 6 | 10 | CLEAR SKY / CALM | |
| 25-02-2024 | 26-02-2024 | 90 | 23 | 9 | BDL | CLEAR SKY / CALM | |
| | | 81 | 29 | 10 | BDL | CLEAR SKY / CALM | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

| | |
|--------------------|--|
| SAMPLE DESCRIPTION | NOISE SAMPLE |
| Test Required | CPCB PRNOVOCOL FOR AMBIENT NOISE MEASUREMENT, NOV-2015 |
| SAMPLING METHOD | LSOP 6 |

| NEAR MANAGER OFFICE: PSON1 | | | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 47.2 | 45.8 |
| FEB'24 | 19-02-2024 | 45.2 | 43.9 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| COLONY: PSON2 | | | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 42.9 | 41.1 |
| FEB'24 | 19-02-2024 | 44.4 | 43.8 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

THESGORA MATHANI UG

PENCH AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423067



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/63 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| MATHANI VILLAGE PTUA1 | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 08-02-2024 | 09-02-2024 | 84 | 25 | 9 | BDL | CLEAR / CALM |
| 21-02-2024 | 22-02-2024 | 93 | 29 | 8 | BDL | CLEAR / CALM |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |

| SAM OFFICE PTUA2 | | | | | | | |
|--|------------|--|------------------|-------------------|-----------------|--------------------------------------|-----------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) | |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | | SO ₂ |
| 08-02-2024 | 09-02-2024 | 388 | 297 | 48 | 16 | 12 | CLEAR / CALM |
| 21-02-2024 | 22-02-2024 | 409 | 231 | 40 | 19 | 15 | CLEAR / CALM |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH NOVember 2000 | | 600 | 300 | - | 120 | 120 | |

| MANAGER OFFICE- MATHANI PTUA3 | | | | | | | |
|--|------------|--|------------------|-------------------|-----------------|--------------------------------------|-----------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) | |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | | SO ₂ |
| 08-02-2024 | 09-02-2024 | 401 | 218 | 43 | 17 | 15 | CLEAR / CALM |
| 21-02-2024 | 22-02-2024 | 421 | 247 | 49 | 15 | 11 | CLEAR / CALM |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH NOVember 2000 | | 600 | 300 | - | 120 | 120 | |

| JHURE COLONY- FILTER PLANT PTUA4 | | | | | | |
|----------------------------------|------------|--|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 08-02-2024 | 09-02-2024 | 94 | 26 | 8 | BDL | CLEAR / CALM |
| 21-02-2024 | 22-02-2024 | 75 | 29 | 10 | BDL | CLEAR / CALM |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | |


Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|--|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 |

| MINE WATER DISCHARGE: PTUW1 | | | | |
|---|------------------|---------------|--------------|----------------|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS | | | |
| | pH | TSS (in mg/l) | COD(in mg/l) | O & G(in mg/l) |
| DETECTION LIMIT | 2 | 10 | 4 | 2 |
| 08-02-2024 | 7.7 | 24 | 28 | BDL |
| 23-02-2024 | 7.81 | 26 | 32 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

| | |
|--------------------|--|
| SAMPLE DESCRIPTION | NOISE SAMPLE |
| Test Required | CPCB PRNOVOCOL FOR AMBIENT NOISE MEASUREMENT, NOV-2015 |
| SAMPLING METHOD | LSOP 6 |

| FAN HOUSE-MATHANI: | | PTUN1 | |
|--|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | NIGHT TIME |
| FEB'24 | 10-02-2024 | 68.2 | 67.2 |
| FEB'24 | 19-02-2024 | 69.2 | 68.4 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| MATHANI COLONY: | | PTUN2 | |
|--|---------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | DETECTION LIMIT | DAY TIME | NIGHT TIME |
| FEB'24 | 10-02-2024 | 44.1 | 43.3 |
| FEB'24 | 19-02-2024 | 45.8 | 44.1 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 50 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
 2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
 3. This report refers to the values related to the items tested.
- ***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

URDHAN OC

PENCH AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423067



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|--|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  TC-7102 |
|---|--------------------|--|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/64 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| URDHAN MANAGER OFFICE PUOA1 | | | | | | | |
|--|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| | | 5 | 5 | 2 | 6 | 10 | |
| 06-02-2024 | 07-02-2024 | 431 | 247 | 45 | 19 | 14 | CLEAR SKY / CALM |
| 19-02-2024 | 20-02-2024 | 407 | 214 | 37 | 23 | 16 | CLEAR SKY / CALM |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH NOVember 2000 | | 600 | 300 | - | 120 | 120 | |


| URDHAN VILLAGE PUOA2 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|------------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| | | 5 | 2 | 6 | 10 | | |
| 06-02-2024 | 07-02-2024 | 89 | 27 | 10 | BDL | CLEAR SKY / CALM | |
| 19-02-2024 | 20-02-2024 | 93 | 21 | 9 | BDL | CLEAR SKY / 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 | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| | | 5 | 2 | 6 | 10 | | |
| 07-02-2024 | 08-02-2024 | 98 | 30 | 9 | BDL | CLEAR SKY / CALM | |
| 20-02-2024 | 21-02-2024 | 84 | 24 | 10 | BDL | CLEAR SKY / CALM | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| BOKAI TOWNSHIP PNUA4 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|------------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| | | 5 | 2 | 6 | 10 | | |
| 07-02-2024 | 08-02-2024 | 89 | 26 | 8 | BDL | CLEAR SKY / CALM | |
| 20-02-2024 | 21-02-2024 | 96 | 29 | 10 | BDL | CLEAR SKY / CALM | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|


| | | | |
|--------------------|--|--|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 |

| 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 |
| 06-02-2024 | 7.78 | 26 | 36 | BDL |
| 21-02-2024 | 7.93 | 36 | 48 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |

| ETP DISCHARGE: PUOW2 | | | | |
|---|------------------|---------------|--------------|----------------|
| DATE OF SAMPLE COLLECTION | ANALYSIS RESULTS | | | |
| | pH | TSS (in mg/l) | COD(in mg/l) | O & G(in mg/l) |
| DETECTION LIMIT | 2 | 10 | 4 | 2 |
| 06-02-2024 | 7.53 | 28 | 32 | BDL |
| 21-02-2024 | 8.40 | 22 | 36 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |

labmark

Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

| | |
|--------------------|--|
| SAMPLE DESCRIPTION | NOISE SAMPLE |
| Test Required | CPCB PRNOVOCOL FOR AMBIENT NOISE MEASUREMENT, NOV-2015 |
| SAMPLING METHOD | LSOP 6 |

| MANAGER OFFICE: PUON1 | | | |
|---|------------------------------|----------------------|------------|
| MONTH | DATE OF SAMPLE COLLECTION | NOISE LEVEL IN dB(A) | |
| | | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 47.1 | 46.2 |
| FEB'24 | 19-02-2024 | 47.2 | 45.4 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

VISHNUPURI-II UG

PENCH AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423067



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|--|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  TC-7102 |
|---|--------------------|--|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/66 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| SAM OFFICE PV1UA1 | | | | | | | |
|--|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| | | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| FROM | TO | 5 | 5 | 2 | 6 | 10 | |
| 10-02-2024 | 11-02-2024 | 412 | 233 | 42 | 21 | 14 | CLEAR SKY / CALM |
| 23-02-2024 | 24-02-2024 | 374 | 208 | 37 | 19 | 12 | CLEAR SKY / CALM |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH NOVember 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) |
| | | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| FROM | TO | 5 | 5 | 2 | 6 | 10 | |
| 10-02-2024 | 11-02-2024 | 430 | 251 | 37 | 20 | 13 | CLEAR SKY / CALM |
| 23-02-2024 | 24-02-2024 | 411 | 223 | 40 | 17 | 11 | CLEAR SKY / CALM |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH NOVember 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) | |
| | | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| FROM | TO | 5 | 2 | 6 | 10 | | |
| 09-02-2024 | 10-02-2024 | 94 | 22 | 10 | BDL | CLEAR SKY / CALM | |
| 22-02-2024 | 23-02-2024 | 84 | 28 | 8 | BDL | CLEAR SKY / 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) | |
| | | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| FROM | TO | 5 | 2 | 6 | 10 | | |
| 12-02-2024 | 13-02-2024 | 90 | 23 | 9 | BDL | CLEAR SKY / CALM | |
| 25-02-2024 | 26-02-2024 | 81 | 29 | 10 | BDL | CLEAR SKY / CALM | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|--|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 |

| 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 |
| 10-02-2024 | 8.22 | 28 | 44 | BDL |
| 24-02-2024 | 8.16 | 24 | 36 | BDL |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

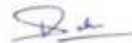
NOISE LEVEL MONITORING DATA

| | |
|--------------------|--|
| SAMPLE DESCRIPTION | NOISE SAMPLE |
| Test Required | CPCB PRNOVOCOL FOR AMBIENT NOISE MEASUREMENT, NOV-2015 |
| SAMPLING METHOD | LSOP 6 |

| FAN HOUSE UG-II: PV2UN1 | | | |
|---|-----------------|----------------------|------------|
| MONTH | DATE OF SAMPLE | NOISE LEVEL IN dB(A) | |
| | COLLECTION | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 10-02-2024 | 68.8 | 67.2 |
| FEB'24 | 19-02-2024 | 68.6 | 67.8 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



STRICTLY RESTRICTED
FOR COMPANY USE ONLY
The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

ENVIRONMENTAL MONITORING REPORT

CWS TADALI

CWS TADALI

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



FEBRUARY 2024

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

AN ISO 9001:2015 COMPANY

| | | |
|---|--------------------|--|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  TC-7102 |
|---|--------------------|--|

| | | | |
|--------------------------|--|-----------------|----------------------|
| TEST REPORT NO. | RIN/TR/FEB-24/53 | DATE OF ISSUE | 28-03-2024 |
| NAME OF CUSTOMER | GM(ENV.), WCL(HQ), NAGPUR | | |
| TEST REQUIRED | SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017) | | |
| SAMPLE DESCRIPTION | AIR SAMPLE | SAMPLING PLAN : | LQR 47 |
| SAMPLING METHOD : LSOP 4 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | | 16-02-24 TO 15-03-24 |

| SUBSTATION: CWSA1 | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 02-02-2024 | 03-02-2024 | 5 | 5 | 2 | 6 | 10 | CLEAR / LIGHT BREEZE |
| 17-02-2024 | 18-02-2024 | 364 | 204 | 65 | 17 | 14 | CLEAR / LIGHT BREEZE |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| NEAR FILTER PLANT: CWSA2 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|----------------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 02-02-2024 | 03-02-2024 | 5 | 2 | 6 | 10 | CLEAR / LIGHT BREEZE | |
| 17-02-2024 | 18-02-2024 | 70 | 46 | 16 | 13 | CLEAR / LIGHT BREEZE | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |

| ADMINISTRATIVE BUILDING: CWSA3 | | | | | | | |
|---|------------|--|------------------|-------------------|-----------------|-----------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | SPM | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | |
| 02-02-2024 | 03-02-2024 | 5 | 5 | 2 | 6 | 10 | CLEAR / LIGHT BREEZE |
| 17-02-2024 | 18-02-2024 | 200 | 58 | 38 | 15 | 12 | CLEAR / LIGHT BREEZE |
| STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000 | | 600 | 300 | - | 120 | 120 | |

| CWS COLONY: CWSA4 | | | | | | | |
|----------------------------|------------|--|-------------------|-----------------|-----------------|----------------------|--------------------------------------|
| DATE(dd:mm:yy) OF SAMPLING | | PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$) | | | | | ENVIRONMENT CONDITIONS (Sky/Wind) |
| FROM | TO | PM ₁₀ | PM _{2.5} | NO ₂ | SO ₂ | | |
| 02-02-2024 | 03-02-2024 | 5 | 2 | 6 | 10 | CLEAR / LIGHT BREEZE | |
| 17-02-2024 | 18-02-2024 | 60 | 48 | 14 | 11 | CLEAR / LIGHT BREEZE | |
| NAAQS, 2009 | | 100 | 60 | 80 | 80 | | |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

| | | | |
|--------------------|--|--|----------------------|
| SAMPLE DESCRIPTION | Water sample | | |
| Test Required | pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019) | | |
| SAMPLING METHOD | LSOP 5 | PERIOD OF PERFORMANCE OF LAB ACTIVITIES: | 16-02-24 TO 15-03-24 |

| 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 |
| 02-02-2024 | 7.78 | 36 | 28 | 4.6 |
| 17-02-2024 | 7.99 | 40 | 32 | 3.6 |
| STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000 | 5.5 - 9.0 | 100 | 250 | 10 |



Analysed by

| | | |
|---|--------------------|---|
| Environment Laboratory CMPDI RI-IV, NAGPUR | Test Report |  |
|---|--------------------|---|

NOISE LEVEL MONITORING DATA

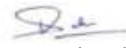
| | |
|---------------------------|--|
| SAMPLE DESCRIPTION | NOISE SAMPLE |
| Test Required | CPCB PRNOVOCOL FOR AMBIENT NOISE MEASUREMENT, AUG-2015 |
| SAMPLING METHOD | LSOP 6 |

| NEAR WORKSHOP: CWSN1 | | | |
|---|-----------------|----------------------|------------|
| MONTH | DATE OF SAMPLE | NOISE LEVEL IN dB(A) | |
| | COLLECTION | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 08-02-2024 | 53.0 | 52.6 |
| FEB'24 | 24-02-2024 | 52.4 | 51.3 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 75 | 70 |

| COLONY(CWS): CWSN2 | | | |
|---|-----------------|----------------------|------------|
| MONTH | DATE OF SAMPLE | NOISE LEVEL IN dB(A) | |
| | COLLECTION | DAY TIME | NIGHT TIME |
| | DETECTION LIMIT | 20 | 20 |
| FEB'24 | 08-02-2024 | 44.3 | 43.5 |
| FEB'24 | 24-02-2024 | 44.5 | 43.3 |
| NOISE POLLUTION (REGULATION AND CONTROL) RULES | | 55 | 45 |



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

1. This report cannot be reproduced in part or full without written of the management.
2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****