

MGM/CO/2024-25/05- 70

Date: 30.05.2024

To

**The Deputy Director General of Forests**

Ministry of Environment, Forest & Climate Change  
Eastern Regional Office, A/3, Chandrasekharpur,  
Bhubaneswar-751023

Sub: **EC Compliance Report (June 2024) Submission of Six-Monthly Compliance report for the period of October 2023 to March 2024**

Ref: **Environmental Clearance Letter No. J-11015/93/2004.1A.II (M), dtd. 21.07.2004**

Sir,

With reference to the subject cited above we are submitting herewith the hard and soft copies of compliance report for the period **October 2023 to March 2024** in respect of our Patabeda Iron Mines over 14.00 Ha.

The soft copy of compliance report is sent to [roez.bsr-mef@nic.in](mailto:roez.bsr-mef@nic.in) & uploaded in the Parivesh portal.

Thanking you

Yours Faithfully

For **M/s. M.G Mohanty**

  
**R. L. Mohanty**  
Managing Partner

Encl: Point wise compliance to the EC letter  
Quarterly Environmental data generated during **October 2023 to March 2024**

**SIX MONTHLY COMPLIANCE REPORTS  
OF CONDITIONS LAID DOWN**

**VIDE LETTER NO. J-11015/93/2004.1A.II (M),  
dtd. 21.07.2005**

**OF  
MINISTRY OF ENVIRONMENT, FORESTS& CLIMATE  
CHANGE, GOVERNMENT OF INDIA**

**IN RESPECT OF PATABEDA IRON MINES(14.00 HA.)**

**OF**

**M/s. M.G MOHANTY  
5A FOREST PARK  
BHUBANESWAR-751009**

**JUNE -2024**



**Six monthly compliance reports of conditions laid down vide letter no. J-11015/93/2004.1A.II (M), dtd. 21.07.2005 of Ministry of Environment, Forests & Climate Change, Government of India in respect of Patabeda Iron Mines(14.00 ha.) of M/s. M.G. Mohanty for the period October 2023 to March 2024**

**Name of The Project : Patabeda Iron Mines of M/s. M G Mohanty over 14.00 Ha. area in Sundergarh District of Odisha.**

**Clearance Letter/s No. and date: Letter no. J-11015/93/2004.1A.II (M), dtd. 21.07.2005**

**Period of Compliance Report : October 2023 to March 2024**

**A. Specific Conditions:**

| <b>Sl. No.</b> | <b>Conditions</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Compliance status</b>                                                                                                                                                                                                                                                                                                         |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| i.             | No mining operations or developmental activity shall be taken up in the remaining 1.942 ha of forestland till necessary forestry clearance has been obtained for the same.                                                                                                                                                                                                                                                                                                                                                                 | The remaining 1.942 ha. of forestland is demarcated safety zone along the southern, western & northern boundary. Massive plantations have been carried out in the area and the same has been kept fenced. <b>Photograph of Safety Zone Plantation-Ref. Photo-1</b>                                                               |
| ii.            | Overburden and mineral rejects should be stacked at earmarked site(s) /storage dumps of an area of 0.50 ha only outside the lease on temporary basis for a period of 5 years only.<br><br>Garland drains will be provided around the excavations to prevent storm water from catchment area to come in contact with freshly excavated areas. Toe drains will be provided all along the toe of the dump to arrest any soil erosion. Loose material slopes will be planted by making contour trenches at 2m intervals to check soil erosion. | Overburden and mineral rejects were being stacked at earmarked site within the ML area. <b>Dump Area Ref. Photo-2</b><br><br>Retaining wall & Garland drain have been made along the toe of the dump for prevention soil erosion. Terracing & plantation on the slope of the OB dump is adapted. <b>Ref. Photo -3, 4 &amp; 5</b> |
| iii.           | Check dams and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from the mining operations. The water so collected should be utilized for watering the mine area, roads, green belt                                                                                                                                                                                                                                                                                                             | A settling pond has been constructed to arrest silt and sediment flows from mining operations and the water so collected are being utilized for the mine area, roads, green belt development etc. The drains are regularly de-silted and maintained. <b>Ref. Photo 6</b>                                                         |

| Sl. No. | Conditions                                                                                                                                                                                                                                                                                                                                                                                                  | Compliance status                                                                                                                                                                                                                                                                |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | <p>development etc. The drains should be regularly desilted and maintained.</p> <p>Garland drain (size, gradient &amp; length) and sump capacity should be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material.</p> | <p>Garland drain &amp; retaining wall has been constructed all around the dump.<b>Ref. Photo 3 &amp; 4</b></p>                                                                                                                                                                   |
| iv.     | <p>Mine water discharge and/or any waste water should be properly treated to meet the prescribed standards before reuse/discharge.</p> <p>Run-off from OB dumps and other surface run-off should be analysed for iron and in case its concentration is found higher than the permissible limit, the water should be treated before discharge / reuse.</p>                                                   | <p>During Rainy season recharge ponds and trenches have been made for recharging of the ground water. Settling tank and check dams have been provided to allow the dust particles settle.</p> <p><b>Ref. Photo 7</b></p>                                                         |
| v.      | <p>Groundwater shall not be used for the mining operations. Prior permission shall be taken from the SGWB and from the MOEF for use of groundwater, if any.</p>                                                                                                                                                                                                                                             | <p>Ground water is not being used for mining operation.</p>                                                                                                                                                                                                                      |
| vi.     | <p>Drills should be wet operated with dust extractors and controlled blasting shall be practiced.</p>                                                                                                                                                                                                                                                                                                       | <p>The DTH drilling machines have been fitted with Dust Suppressing System with atomized water. One of the machines also has dust extraction system with bag filters along with Dust Suppressing System.</p> <p><b>Ref Photo.: 8</b></p>                                         |
| vii.    | <p>All services roads shall be black topped.</p>                                                                                                                                                                                                                                                                                                                                                            | <p>Service roads are being concreted.</p>                                                                                                                                                                                                                                        |
| viii.   | <p>A total area of 12.058 ha shall be afforested. This will include reclamation of 11.758 ha of mined out area/benches and 1.942 ha of safety zone. Plantation should also be raised along the roads, dump sites, all around the ML area, by</p>                                                                                                                                                            | <p>A total area of 12.058 ha. shall be afforested. This will include reclamation of 11.758 ha of mined out area/benches and 1.942 ha. of safety zone. Plantation work has been done along the roads, safety zone by planting native plant species in consultation with local</p> |

| Sl. No. | Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Compliance status                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | planting native plant species in consultation with local DFO/Agriculture Department. At least 2000 plant species / ha should be planted.                                                                                                                                                                                                                                                                                                                                                                           | DFO. A total No. of 12607 saplings were planted upto September 2023 in area of area 2.025 ha. in exiting dump slopes & safety zone gap plantation.<br><b>Ref. Photo 1.</b><br>After exhaust of ore from the area reclamation plantation will be carried out concurrently.                                                                                                                                                  |
| ix.     | Mining shall not intersect groundwater. Prior approval of the MOEF and CGWA shall be obtained for mining below groundwater.                                                                                                                                                                                                                                                                                                                                                                                        | Ground water table is not encountered as the mining operation is confined on top of the hill only.                                                                                                                                                                                                                                                                                                                         |
| x.      | Water harvesting and water conservation measures such as construction of check dams, ponds, water holes, in and around the mining lease area shall be undertaken.                                                                                                                                                                                                                                                                                                                                                  | The entire lease area is slopping towards west and a settling pond has been constructed to store the waste water through garland drain for water harvesting. <b>Ref. Photo 4 &amp; 6</b>                                                                                                                                                                                                                                   |
| xi.     | Regular monitoring of groundwater level and quality should be carried out by establishing a network of existing wells and constructing new piezometers. The monitoring of ground water level should be done at least four times a year in pre-monsoon (April / May), monsoon (August), post-monsoon (November) and winter (January) seasons and for groundwater quality once (May). Data thus collected should be submitted to the Ministry of Environment & Forests and to Regional Office of the CGWB regularly. | Regular monitoring of ground water level and quality is being carried out by in consultation with "SUPCO" four time a year in pre-monsoon (April/May), monsoon (August), post-monsoon (November) and winter (January) seasons and for groundwater quality once (May) Data thus collected are being submitted to the Ministry of Environment & Forests and to Regional Office of the CGWB regularly. <b>Ref. Annexure-1</b> |
| xii.    | A "Consent to Operate" should be obtained from SPCB before starting mining activities.                                                                                                                                                                                                                                                                                                                                                                                                                             | "Consent to Operate" has already been obtained from SPCB, valid upto 31.03.2026.<br><b>Ref. : Annexure-2</b>                                                                                                                                                                                                                                                                                                               |
| xiii.   | A Conservation Plan shall be prepared for conservation of endangered fauna found in the forest area and shall be implemented in consultation with identified agencies / institutions and the State Government. The costs for the specific activities/tasks should be earmarked in the Conservation Plan and                                                                                                                                                                                                        | A Conservation Plan has been prepared for conservation of rare and endangered flora and fauna found in the forest area and are being implemented in consultation with identified agencies/institutions and the State Government. The cost for the specific activities/tasks has been earmarked in the Conservation Plan and is not being diverted                                                                          |

| Sl. No. | Conditions                                                                                                                                                                                                | Compliance status                                                                                                                                                                                                                                                                                        |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | shall not be diverted for any other purpose. Year-wise status of the implementation of the Plan and the expenditure thereon should be reported to the Ministry of Environment & Forests, RO, Bhubaneswar. | for any other purpose. The site wildlife conservation plan has been approved by PCCF, Wildlife, Govt. Odisha with financial forecast of 390.836 lakhs vide Memo No. 3468/1WL-SSP-13/2015 dated 22.04.2015.<br><b>Copy of Site Specific Wildlife conservation Plan Approval letter : Ref. Annexure -3</b> |
| xiv.    | A Final Mine Closure Plan along with details of Corps Fund should be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.                            | A Final Mine Closure Plan along with details of Corpus Fund will be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.                                                                                                                            |

#### **B. GENERAL CONDITION:**

| Sl. No. | Conditions                                                                                                                                                                                                                                                                                                                                                                                       | Compliance Status                                                                                                                                                                                                                                                                                                                                                                                 |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| i.      | No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.                                                                                                                                                                                                                                                              | There is no change in mining technology and working at present. If necessary prior approval will be taken up from the Ministry of Environment & Forests.                                                                                                                                                                                                                                          |
| ii.     | No change in the calendar plan including excavation, quantum of iron ore and waste produced should be made.                                                                                                                                                                                                                                                                                      | Mining operation is being carried out as per approved mining plan/scheme.                                                                                                                                                                                                                                                                                                                         |
| iii.    | Ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RPM, SPM, SO <sub>2</sub> , NO <sub>x</sub> & CO monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. | Ambient air quality-monitoring stations has been established for RPM, SPM, SO <sub>2</sub> , NO <sub>x</sub> & CO monitoring by recognized Consultant "SUPCO" quarterly in proper manner in the located sampling points. <b>Copy Enclosed as Annexure-1</b>                                                                                                                                       |
| iv.     | Data on ambient air quality (RPM, SPM, SO <sub>2</sub> , NO <sub>x</sub> ) should be regularly submitted to the Ministry including its Regional office at Bhubaneswar and to the State Pollution Control Board / Central Pollution Control Board once in six months.                                                                                                                             | Control measures like adopting wet drilling, water sprinkling of haul roads, plantation along the ML boundary is also carried out to prevent the propagation of air born dust in the mining lease area. Data on ambient air quality (RPM, SPM, SO <sub>2</sub> , NO <sub>x</sub> ) is submitted once in six months regularly to the Ministry including Regional office at Bhubaneswar, SPCB/CPCB. |

**Copy Enclosed as Annexure-1**

|       |                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       |                                                                                                                                                                                                                                                                                                                                                                                       | <b>Copy Enclosed as Annexure-1</b>                                                                                                                                                                                                                                                                                                                                                                                                                         |
| v.    | Fugitive dust emissions from all the sources should be controlled regularly monitored and data recorded properly. Water spraying arrangements on haul roads, wagon loading, dumpers/trucks, loading & unloading points should be provided and properly maintained. Crushers and conveyors shall be enclosed and provided with dust extraction systems near the sources of generation. | Fugitive dust emissions from all sources are being controlled regularly. Dust Suppression of the mine haul road is being controlled by one 10KL Water Tanker by spraying of water according to the requirement. Drilling machines having Dust Suppression System. <b>Ref. Photo 9.</b>                                                                                                                                                                     |
| vi.   | Adequate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, operations of HEMM, etc. should be provided with ear plugs/muffs. Workers in Noise generating areas and engaged with noise generating machinery should be subjected to audiometric tests annually.                           | Proper maintenance of the noise generating parts of the machines is introduced. Air silencers of suitable type that can modulate the noise of the engines of machinery are in use. They are maintained effectively. Ear muffs are given to those persons operating or working close to any machine. The periodical monitoring of noise levels and audiometric test of the employees are being carried out and found that the measures taken are effective. |
| vii.  | Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 <sup>th</sup> May, 1993 and 31 <sup>st</sup> December, 1993 or as amended from time to time. Oil and grease trap and retention ponds should be installed before discharge of workshop effluents.        | As there is minimal quantity of waste water from workshop and no mining waste water to be generated in the mine. Effluent treatment plant has been installed. However, adequate retention wall and settling tank have been provided for surface runoff.<br><b>Ref. Photo-3, 6 &amp; 11</b>                                                                                                                                                                 |
| viii. | The data on environmental quality should be collected and analysed either through an in-house environmental laboratory established with adequate number and type of pollution monitoring and analysis equipment or got analysed through an approved laboratory under the Environment                                                                                                  | The data on environmental quality is being collected and analyzed by the approved laboratory "SUPCO" the Environment (Protection) Rules, 1986 in consultation with the State Pollution Control Board at regular interval. <b>Ref. Annexure-1</b>                                                                                                                                                                                                           |

|      |                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                   |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | (Protection) Rules, 1986 in consultation with the State Pollution Control Board.                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                   |
| ix.  | Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.                                                                                                                                      | Personnel working in mines have been provided with dust mask, ear plugs/muffs for proper respiration and are being trained in our Vocational Training Centre about information on safety and health aspects. Periodical medical examination of all workers is being done systematically at regular interval. <b>Ref. Annexure-4</b>                                               |
| x.   | Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed. Audiometric tests shall be taken annually for workers in noise generating areas and corrective measures undertaken if required. | Periodical Medical Examination & Internal Medical Examination of all workers is being done systematically at regular intervals. The IME, PME & Eye refraction test for the year 2023-24 are as follows:<br><br>1. Patabeda Iron Mines (14.00 Ha)<br>a. IME :1No.<br>b. PME :12 Nos.<br>c. Eye refraction Test : 05 Nos.<br><b>Copy of sample report is enclosed as Annexure-4</b> |
| xi.  | The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Regional Office located at Bhubaneswar.                                                                    | The funds are being separately earmarked for environmental protection measures and peripheral development. The expenditure made towards various community development and peripheral developments is being reported periodically.                                                                                                                                                 |
| xii. | The Regional Office of this Ministry located at Bhubaneswar shall monitor compliance of the stipulated conditions. The Project authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data / information / monitoring reports.                                | Full co-operation will be extended for furnishing the requisite data/ Information/monitoring records to inspecting offices.                                                                                                                                                                                                                                                       |



|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| xiii. | A copy of clearance letter will be marked to concerned Panchayat / local NGO, if any, from whom and suggestion / representation has been received while processing the proposal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | A copy of Clearance letter has already been sent to the concerned Panchayat.                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| xiv.  | The State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry centre and 'Collector's office / Tehsildar's Office for 30 days.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | The requirement under the condition has already been complied with.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| xv.   | The project authorities should advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within seven days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and may also be seen at Web Site of the Ministry of Environment & Forests at <b><a href="http://envfor.nic.in">http://envfor.nic.in</a></b> and a copy of the same should be forwarded to the Regional Office of this Ministry located at Bhubaneswar. | The project authorities have already advertised in two local newspapers out of which one is in vernacular language within seven days of the issue of the clearance letter informing about the clearance and a copy of the clearance letter is available with the State Pollution Control Board and may also be seen at Web site of the Ministry of Environment & Forests at <b><a href="http://envfor.nic.in">http://envfor.nic.in</a></b> and a copy of the same has been forwarded to the Regional Office of this Ministry located at Bhubaneswar. |

  
Signature



**SUPERINTENDENCE CO. OF INDIA (P) LTD.**  
**ENVIRONMENTAL BASELINE DATA GENERATION**  
**AT**

**M/S – M.G.MOHANTY**  
**PROJECT: Patabeda Iron Mines (14.000 Ha)**

**REPORT**  
**FOR THE MONTH OF MARCH 2024**

\*\*\*\*\*

**REPORT SUBMITTED BY:**

**SUPERINTENDENCE CO. OF INDIA (P) LTD**

**Y-23, Block EP, Sector V, Salt Lake City-7000 91**

**Ph. No. : (033) - 2357-1492/4670/4671/4681**

**Fax: 033- 2357-4806**

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# SUPERINTENDENCE COMPANY OF INDIA PRIVATE LIMITED

(An ISO 9001 : 2015 Certified)

Regional office : Plot No. Y-23, Block-EP, Sector-V, Salt Lake City, Kolkata-700 091, Phone : (033) 2357-4671/4681/4873/5039/5042  
Fax : (033) 2357-4806, E-mail : supind2019@gmail.com, supind50@yahoo.co.in, Website : www.superintendencecoindia.com

Ref.: SUENV/ M.G. MOHANTY(14.000 Ha) /SP/KB /358

Date: 15.04.2024

To  
**The Mines Manager,**  
M/s. M.G. Mohanty.  
Patabeda Iron Mines (14.000 Ha)  
Patabeda, P.O. Malda, P.S. Koira,  
Dist.: Sundergarh, Odisha

Sub: Submission of Test Report for the Month of **MARCH 2024**

Work Order no & Dated.: **MGM/WO/2023/24/11-164**

**Dated:28/11/2023**

Dear Sir,

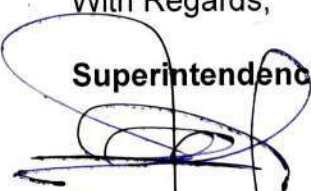
We are submitting herewith test reports for the month of **MARCH 2024** as follows:

- Ambient Air Monitoring (5 Parameters).
- Fugitive Dust
- Noise Monitoring
- Ground Water Quality
- Surface Water Quality
- ETP & STP Out Let Treated Water

Thanking you,

With Regards,

**Superintendence Co. of India (P) Ltd.**

  
**S. Paul**  
**(ADDL.DIRECTOR)**  
Encl: as above



# SUPERINTENDENCE COMPANY OF INDIA PRIVATE LIMITED

LABORATORY :

PLOT NO. Y-23, BLOCK-EP, SECTOR-V, SALT LAKE CITY, KOLKATA-700 091

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Website : www.superintendencecoindia.com

GSTIN : 19AAECS3740C2ZJ



(An ISO 9001 : 2015 Certified)



TC-8066

## TEST REPORT

|                                      |                                                                                                                                            |                                       |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| REPORT NO. : N- 1497                 | ULR-TC806624000000499F                                                                                                                     | DATE - - 12.04.2024                   |
| Name and Address of Customer:        | <b>M/s. M.G. MOHANTY.</b><br><b>Patabeda Iron Mines ((14.000 Ha)</b><br><b>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha</b> |                                       |
| Work order No. and Date:             | <b>MGM/WO/2023/24/11-164</b>                                                                                                               | <b>Dated:28/11/2023</b>               |
| Sample receiving date:               | 22.03.2024                                                                                                                                 |                                       |
| Sub:                                 | Environmental monitoring                                                                                                                   |                                       |
| Material:                            | Ambient Air                                                                                                                                |                                       |
| Group:                               | Atmospheric Pollution                                                                                                                      |                                       |
| Date of starting of Test: 26.03.2024 | <u>CHEMICAL TEST RESULT</u>                                                                                                                | Date of completion of Test 01.04.2024 |

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                         |                         |                         |                         |                         |                         |                         |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                         |                         |                         |                         |                         |                         |                         |
|         |                                                              |                                 |                                     | AAQ-1 Mines Quarry (CZ)  | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date |                         |                         |                         |                         |                         |                         |                         |
|         |                                                              |                                 |                                     | 01.03.24                 | 02.03.24                | 03.03.24                | 04.03.24                | 05.03.24                | 06.03.24                | 07.03.24                | 08.03.24                |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 46.51                    | 42.04                   | 45.78                   | 40.57                   | 39.46                   | 43.58                   | 45.75                   | 44.28                   |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 80.27                    | 76.58                   | 79.21                   | 74.15                   | 70.35                   | 75.21                   | 77.34                   | 75.41                   |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 14.39                    | 23.43                   | 11.35                   | 13.86                   | 14.82                   | 12.93                   | 15.46                   | 14.67                   |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 23.15                    | 21.39                   | 19.40                   | 20.72                   | 24.16                   | 20.69                   | 23.52                   | 20.83                   |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 0.96                     | 1.07                    | 1.14                    | 1.20                    | 1.03                    | 1.20                    | 1.08                    | 1.19                    |

Tested by:  
A. Chatterjee

Authorized Signatory  
P. Dutta (Technical Manager)

Note : 1) This report refers to the values obtained at the time of testing and results relate to the items tested.  
2) This Report shall not be reproduced in part or full without written permission of the management.  
3) Liability for return of samples ceases after 15 days from the date of test report.



GSTIN : 19AAECS3740C2ZJ



TC-8066

## TEST REPORT

|                               |                                                                                                                                            |                         |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| REPORT NO. : N- 1497          | ULR-TC806624000000499F                                                                                                                     | DATE - - 12.04.2024     |
| Name and Address of Customer: | <b>M/s. M.G. MOHANTY.</b><br><b>Patabeda Iron Mines ((14.000 Ha)</b><br><i>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha</i> |                         |
| Work order No. and Date:      | <b>MGM/WO/2023/24/11-164</b>                                                                                                               | <b>Dated:28/11/2023</b> |
| Sample receiving date:        | 22.03.2024                                                                                                                                 |                         |
| Sub:                          | Environmental monitoring                                                                                                                   |                         |
| Material:                     | Ambient Air                                                                                                                                |                         |
| Group:                        | Atmospheric Pollution                                                                                                                      |                         |

Date of starting of Test: 26.03.2024

CHEMICAL TEST RESULT

Date of completion of Test 01.04.2024

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                         |                         |                         |                         |                         |                         |                         |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                         |                         |                         |                         |                         |                         |                         |
|         |                                                              |                                 |                                     | AAQ-1 Mines Quarry (CZ)  | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date |                         |                         |                         |                         |                         |                         |                         |
|         |                                                              |                                 |                                     | 09.03.24                 | 10.03.24                | 11.03.24                | 12.03.24                | 13.03.24                | 14.03.24                | 15.03.24                | 16.03.24                |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 41.72                    | 48.19                   | 47.48                   | 43.16                   | 45.62                   | 47.32                   | 44.18                   | 46.17                   |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 74.58                    | 83.06                   | 80.65                   | 78.97                   | 79.23                   | 82.15                   | 76.39                   | 79.32                   |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 13.09                    | 16.57                   | 15.20                   | 14.03                   | 15.89                   | 16.43                   | 13.76.                  | 16.80                   |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 21.86                    | 24.34                   | 23.54                   | 23.51                   | 24.76                   | 25.61                   | 19.28                   | 26.78                   |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 1.06                     | 1.22                    | 1.08                    | 1.30                    | 1.09                    | 1.12                    | 1.16                    | 0.89                    |

Tested by:

*A. Chatterjee*  
A. Chatterjee

Authorized Signatory

*P. Dutta*  
P. Dutta (Technical Manager)

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TC-8066

## TEST REPORT

|                               |                                                                                                                                         |                         |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| REPORT NO. : N- 47            | ULR-TC806624000000525F                                                                                                                  | DATE - 15.04.2024       |
| Name and Address of Customer: | <p>M/s. M.G. MOHANTY.<br/> <b>Patabeda Iron Mines ((14.000 Ha)</b><br/> Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha</p> |                         |
| Work order No. and Date:      | <b>MGM/VO/2023/24/11-164</b>                                                                                                            | <b>Dated:28/11/2023</b> |
| Sample receiving date:        | <b>08.04.2024</b>                                                                                                                       |                         |
| Sub:                          | Environmental monitoring                                                                                                                |                         |
| Material:                     | Ambient Air                                                                                                                             |                         |
| Group:                        | Atmospheric Pollution                                                                                                                   |                         |

Date of starting of Test: **08.04.2024** CHEMICAL TEST RESULT

Date of completion of Test **13.04.2024**

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                         |                         |                         |                         |                         |                         |                         |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                         |                         |                         |                         |                         |                         |                         |
|         |                                                              |                                 |                                     | AAQ-1 Mines Quarry (CZ)  | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date |                         |                         |                         |                         |                         |                         |                         |
|         |                                                              |                                 |                                     | 17.03.24                 | 18.03.24                | 19.03.24                | 20.03.24                | 21.03.24                | 22.03.24                | 23.03.24                | 24.03.24                |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 48.65                    | 42.68                   | 43.51                   | 45.63                   | 44.26                   | 47.12                   | 45.18                   | 43.71                   |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 82.79                    | 71.96                   | 73.19                   | 75.89                   | 74.31                   | 80.93                   | 78.43                   | 76.31                   |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 17.50                    | 15.37                   | 16.28                   | 17.28                   | 13.89                   | 18.27                   | 16.59                   | 14.54                   |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 27.04                    | 24.82                   | 25.72                   | 26.51                   | 19.74                   | 26.34                   | 24.86                   | 22.82                   |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 0.92                     | 1.06                    | 0.98                    | 0.87                    | 0.92                    | 1.01                    | 0.94                    | 0.95                    |

Tested by:

A. Chatterjee

Authorized Signatory

P. Dutta (Technical Manager)

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TC-8066



(An ISO 9001 : 2015 Certified)

## TEST REPORT

|                                             |                                                                                                                                     |                                              |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| REPORT NO. : N- 47                          | ULR-TC806624000000525F                                                                                                              | DATE 15.04.2024                              |
| Name and Address of Customer:               | M/s. M.G. MOHANTY.<br><b>Patabeda Iron Mines ((14.000 Ha)</b><br><i>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha</i> |                                              |
| Work order No. and Date:                    | <b>MGM/WO/2023/24/11-164</b>                                                                                                        | <b>Dated:28/11/2023</b>                      |
| Sample receiving date:                      | <b>08.04.2024</b>                                                                                                                   |                                              |
| Sub:                                        | Environmental monitoring                                                                                                            |                                              |
| Material:                                   | Ambient Air                                                                                                                         |                                              |
| Group:                                      | Atmospheric Pollution                                                                                                               |                                              |
| Date of starting of Test: <b>08.04.2024</b> | <b>CHEMICAL TEST RESULT</b>                                                                                                         | Date of completion of Test <b>13.04.2024</b> |

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                         |                         |                         |                         |                         |                         |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                         |                         |                         |                         |                         |                         |
|         |                                                              |                                 |                                     | AAQ-1 Mines Quarry (CZ)  | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date |                         |                         |                         |                         |                         |                         |
|         |                                                              |                                 |                                     | 25.03.24                 | 26.03.24                | 27.03.24                | 28.03.24                | 29.03.24                | 30.03.24                | 31.03.24                |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 46.17                    | 48.60                   | 42.87                   | 45.07                   | 43.91                   | 39.10                   | 44.69                   |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 79.31                    | 80.74                   | 72.13                   | 76.84                   | 74.69                   | 69.85                   | 75.28                   |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 16.59                    | 18.38                   | 14.39                   | 15.44                   | 13.76                   | 12.57                   | 15.43                   |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 23.05                    | 26.42                   | 22.76                   | 20.32                   | 19.28                   | 18.93                   | 21.35                   |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 1.02                     | 0.96                    | 0.89                    | 0.95                    | 0.98                    | 1.10                    | 1.04                    |

Tested by:  
  
**A. Chatterjee**

Authorized Si1.10gnatory  
  
**P. Dutta (Technical Manager)**

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                                      |                                                                                                                                                |                                       |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| REPORT NO. : N- 1497                 | ULR-TC806624000000499F                                                                                                                         | DATE -- 12.04.2024                    |
| Name and Address of Customer:        | <p>M/s. M.G. MOHANTY.<br/> <b>Patabeda Iron Mines ((14.000 Ha)</b><br/> <i>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha</i></p> |                                       |
| Work order No. and Date:             | <b>MGM/WO/2023/24/11-164</b>                                                                                                                   | <b>Dated:28/11/2023</b>               |
| Sample receiving date:               | 22.03.2024                                                                                                                                     |                                       |
| Sub:                                 | Environmental monitoring                                                                                                                       |                                       |
| Material:                            | Ambient Air                                                                                                                                    |                                       |
| Group:                               | Atmospheric Pollution                                                                                                                          |                                       |
| Date of starting of Test: 26.03.2024 | <b>CHEMICAL TEST RESULT</b>                                                                                                                    | Date of completion of Test 01.04.2024 |

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result                  |                              |                              |                              |                              |                              |                              |                              |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS             |                              |                              |                              |                              |                              |                              |                              |
|         |                                                              |                                 |                                     | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date     |                              |                              |                              |                              |                              |                              |                              |
|         |                                                              |                                 |                                     | 01.03.24                     | 02.03.24                     | 03.03.24                     | 04.03.24                     | 05.03.24                     | 06.03.24                     | 07.03.24                     | 08.03.24                     |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 38.12                        | 42.60                        | 43.47                        | 39.14                        | 40.85                        | 45.96                        | 41.67                        | 43.62                        |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 68.31                        | 72.35                        | 75.89                        | 70.50                        | 71.62                        | 79.18                        | 73.43                        | 76.35                        |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 13.47                        | 14.96                        | 12.33                        | 12.47                        | 11.73                        | 15.02                        | 13.21                        | 14.06                        |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 20.59                        | 22.68                        | 18.78                        | 19.28                        | 17.39                        | 23.81                        | 19.59                        | 25.81                        |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 0.96                         | 1.02                         | 0.87                         | 1.02                         | 0.94                         | 1.01                         | 0.86                         | 0.91                         |

Tested by:

*A. Chatterjee*  
A. Chatterjee

Authorized Signatory

*P. Dutta*  
P. Dutta (Technical Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                                            |                                       |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| REPORT NO. : N- 1497          | ULR-TC806624000000499F                                                                                                                     | DATE -- 12.04.2024                    |
| Name and Address of Customer: | <b>M/s. M.G. MOHANTY.</b><br><b>Patabeda Iron Mines ((14.000 Ha)</b><br><i>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha</i> |                                       |
| Work order No. and Date:      | <b>MGM/VO/2023/24/11-164</b>                                                                                                               | <b>Dated:28/11/2023</b>               |
| Sample receiving date:        | 22.03.2024                                                                                                                                 |                                       |
| Sub:                          | Environmental monitoring                                                                                                                   |                                       |
| Material:                     | Ambient Air                                                                                                                                |                                       |
| Group:                        | Atmospheric Pollution                                                                                                                      |                                       |
| Date of starting of Test      | 26.03.2024                                                                                                                                 | Date of completion of Test 01.04.2024 |

### CHEMICAL TEST RESULT

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result                  |                              |                              |                              |                              |                              |                              |                              |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS             |                              |                              |                              |                              |                              |                              |                              |
|         |                                                              |                                 |                                     | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date     |                              |                              |                              |                              |                              |                              |                              |
|         |                                                              |                                 |                                     | 09.03.24                     | 10.03.24                     | 11.03.24                     | 12.03.24                     | 13.03.24                     | 14.03.24                     | 15.03.24                     | 16.03.24                     |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 46.18                        | 40.61                        | 42.58                        | 37.29                        | 41.75                        | 43.68                        | 40.33                        | 40.17                        |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 81.93                        | 69.83                        | 73.64                        | 64.52                        | 72.34                        | 75.46                        | 71.40                        | 72.31                        |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 16.75                        | 12.46                        | 14.75                        | 11.41                        | 13.82                        | 15.97                        | 12.54                        | 13.50                        |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 27.30                        | 20.31                        | 23.17                        | 19.76                        | 20.93                        | 24.89                        | 18.28                        | 20.98                        |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 0.92                         | 0.89                         | 0.91                         | 1.04                         | 0.92                         | 0.86                         | 0.92                         | 1.11                         |

Tested by:

A. Chatterjee

Authorized Signatory

P. Dutta (Technical Manager)

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# SUPERINTENDENCE COMPANY OF INDIA PRIVATE LIMITED

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GSTIN : 19AAECS3740C2ZJ



(An ISO 9001 : 2015 Certified)



TC-8066

## TEST REPORT

|                               |                                                                                                                       |                   |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------|
| REPORT NO. : N- 47            | ULR-TC806624000000525F                                                                                                | DATE - 15.04.2024 |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br>Patabeda Iron Mines ((14.000 Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                   |
| Work order No. and Date:      | MGM/WO/2023/24/11-164                                                                                                 | Dated:28/11/2023  |
| Sample receiving date:        | 08.04.2024                                                                                                            |                   |
| Sub:                          | Environmental monitoring                                                                                              |                   |
| Material:                     | Ambient Air                                                                                                           |                   |
| Group:                        | Atmospheric Pollution                                                                                                 |                   |

Date of starting of Test: 08.04.2024 CHEMICAL TEST RESULT

Date of completion of Test 13.04.2024

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result                  |                              |                              |                              |                              |                              |                              |                              |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS             |                              |                              |                              |                              |                              |                              |                              |
|         |                                                              |                                 |                                     | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date     |                              |                              |                              |                              |                              |                              |                              |
|         |                                                              |                                 |                                     | 17.03.24                     | 18.03.24                     | 19.03.24                     | 20.03.24                     | 21.03.24                     | 22.03.24                     | 23.03.24                     | 24.03.24                     |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 45.21                        | 39.41                        | 46.15                        | 43.53                        | 45.72                        | 44.13                        | 41.26                        | 43.12                        |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 80.15                        | 68.56                        | 75.84                        | 76.49                        | 79.40                        | 74.38                        | 73.87                        | 74.51                        |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 14.74                        | 12.67                        | 15.36                        | 14.37                        | 16.35                        | 14.79                        | 13.94                        | 13.79                        |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 22.39                        | 18.23                        | 23.98                        | 21.84                        | 24.98                        | 19.54                        | 18.65                        | 20.37                        |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 1.02                         | 1.08                         | 0.99                         | 1.13                         | 1.06                         | 1.14                         | 1.20                         | 1.08                         |

Tested by:

A. Chatterjee

Authorized Signatory

P. Dutta (Technical Manager)

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TC-8066

## TEST REPORT

|                               |                                                                                                                                            |                         |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| REPORT NO. : N- 47            | ULR-TC80662400000525F                                                                                                                      | DATE - 15.04.2024       |
| Name and Address of Customer: | <b>M/s. M.G. MOHANTY.</b><br><b>Patabeda Iron Mines ((14.000 Ha)</b><br><b>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha</b> |                         |
| Work order No. and Date:      | <b>MGM/WO/2023/24/11-164</b>                                                                                                               | <b>Dated:28/11/2023</b> |
| Sample receiving date:        | <b>08.04.2024</b>                                                                                                                          |                         |
| Sub:                          | Environmental monitoring                                                                                                                   |                         |
| Material:                     | Ambient Air                                                                                                                                |                         |
| Group:                        | Atmospheric Pollution                                                                                                                      |                         |

Date of starting of Test: **08.04.2024** CHEMICAL TEST RESULT Date of completion of Test **13.04.2024**

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result                  |                              |                              |                              |                              |                              |                              |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS             |                              |                              |                              |                              |                              |                              |
|         |                                                              |                                 |                                     | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date     |                              |                              |                              |                              |                              |                              |
|         |                                                              |                                 |                                     | 25.03.24                     | 26.03.24                     | 27.03.24                     | 28.03.24                     | 29.03.24                     | 30.03.24                     | 31.03.24                     |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 46.17                        | 40.45                        | 42.65                        | 48.21                        | 45.39                        | 43.85                        | 41.02                        |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 81.32                        | 72.61                        | 74.19                        | 83.81                        | 79.56                        | 76.10                        | 73.46                        |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 18.94                        | 14.83                        | 13.94                        | 17.58                        | 15.27                        | 14.78                        | 13.98                        |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART- 6,2006, RA-2017   | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 25.06                        | 23.78                        | 19.43                        | 24.13                        | 22.73                        | 21.59                        | 20.87                        |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 1.05                         | 1.13                         | 1.04                         | 0.96                         | 1.09                         | 1.12                         | 1.08                         |

Tested by:

A. Chatterjee

Authorized Signatory

P. Dutta (Technical Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                                                   |                             |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| REPORT NO. : N- 1497          | ULR-TC806624000000499F                                                                                                                            | DATE -- 12.04.2024          |
| Name and Address of Customer: | 82.67M/s. M.G. MOHANTY.<br><b>Patabed14.89a Iron ines ((14.000 Ha)</b><br><i>Patabeda, P.O. Malda, P21.24.S. Koira, Dist.: Sundergarh, Odisha</i> |                             |
| Work order No. and Date:      | <b>MGM/VO/2023/24/11-164</b>                                                                                                                      | <b>Da1.08ted:28/11/2023</b> |
| Sample receiving date:        | 22.03.2024                                                                                                                                        |                             |
| Sub:                          | Environmental monitoring                                                                                                                          |                             |
| Material:                     | Ambient Air                                                                                                                                       |                             |
| Group:                        | Atmospheric Pollution                                                                                                                             |                             |

Date of starting of Test: 26.03.2024

CHEMICAL TEST RESULT

Date of completion of Test 01.04.2024

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                 |                 |                 |                 |                 |                 |                 |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                 |                 |                 |                 |                 |                 |                 |
|         |                                                              |                                 |                                     | AAQ-3 Dump (CZ)          | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date |                 |                 |                 |                 |                 |                 |                 |
|         |                                                              |                                 |                                     | 01.03.24                 | 02.03.24        | 03.03.24        | 04.03.24        | 05.03.24        | 06.03.24        | 07.03.24        | 08.03.24        |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 45.61                    | 43.16           | 47.58           | 39.10           | 42.98           | 46.26           | 40.56           | 44.17           |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 76.20                    | 73.83           | 80.46           | 70.25           | 74.87           | 79.89           | 71.42           | 76.38           |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 13.58                    | 12.79           | 14.25           | 11.74           | 13.72           | 15.73           | 12.65           | 13.76           |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART- 6,2006, RA-2017   | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 19.32                    | 18.01           | 22.67           | 17.53           | 13.72           | 23.10           | 19.85           | 21.97           |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 0.83                     | 0.79            | 0.91            | 0.86            | 20.35           | 0.93            | 0.87            | 1.04            |

Tested by:

*A. Chatterjee*  
A. Chatterjee

Authorized Signatory

*P. Dutta*  
P. Dutta (Technical Manager)

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GSTIN : 19AAECS3740C2ZJ



TC-8066

## TEST REPORT

|                               |                                                                                                                       |                     |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------|---------------------|
| REPORT NO. : N- 1497          | ULR-TC806624000000499F                                                                                                | DATE - - 12.04.2024 |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br>Patabeda Iron Mines ((14.000 Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                     |
| Work order No. and Date:      | MGM/WO/2023/24/11-164                                                                                                 | Dated:28/11/2023    |
| Sample receiving date:        | 22.03.2024                                                                                                            |                     |
| Sub:                          | Environmental monitoring                                                                                              |                     |
| Material:                     | Ambient Air                                                                                                           |                     |
| Group:                        | Atmospheric Pollution                                                                                                 |                     |

Date of starting of Test: 26.03.2024

### CHEMICAL TEST RESULT

Date of completion of Test 01.04.2024

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                 |                 |                 |                 |                 |                 |                 |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                 |                 |                 |                 |                 |                 |                 |
|         |                                                              |                                 |                                     | AAQ-3 Dump (CZ)          | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date |                 |                 |                 |                 |                 |                 |                 |
|         |                                                              |                                 |                                     | 09.03.24                 | 10.03.24        | 11.03.24        | 12.03.24        | 13.03.24        | 14.03.24        | 15.03.24        | 16.03.24        |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 37.51                    | 40.25           | 41.32           | 38.51           | 43.76           | 40.27           | 39.45           | 44.12           |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 68.40                    | 72.02           | 73.05           | 69.40           | 74.35           | 71.36           | 70.20           | 76.31           |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 10.25                    | 14.26           | 12.54           | 11.64           | 13.91           | 12.54           | 11.54           | 14.75           |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART- 6,2006, RA-2017   | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 17.64                    | 22.57           | 20.39           | 19.82           | 20.63           | 19.43           | 18.46           | 22.41           |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 0.92                     | 0.92            | 0.89            | 1.01            | 0.94            | 0.86            | 0.93            | 1.06            |

Tested by:

A. Chatterjee

Authorized Signatory

P. Dutta (Technical Manager)

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GSTIN : 19AAECS3740C2ZJ



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TC-8066

## TEST REPORT

|                               |                                                                                                                              |                  |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------|
| REPORT NO. : N- 47            | ULR-TC806624000000525F                                                                                                       | DATE -15.04.2024 |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br><b>Patabeda Iron Mines ((14.000 Ha)</b><br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                  |
| Work order No. and Date:      | MGM/WO/2023/24/11-164                                                                                                        | Dated:28/11/2023 |
| Sample receiving date:        | 08.04.2024                                                                                                                   |                  |
| Sub:                          | Environmental monitoring                                                                                                     |                  |
| Material:                     | Ambient Air                                                                                                                  |                  |
| Group:                        | Atmospheric Pollution                                                                                                        |                  |

Date of starting of Test: 08.04.2024 CHEMICAL TEST RESULT Date of completion of Test 13.04.2024

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                 |                 |                 |                 |                 |                 |                 |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                 |                 |                 |                 |                 |                 |                 |
|         |                                                              |                                 |                                     | AAQ-3 Dump (CZ)          | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date |                 |                 |                 |                 |                 |                 |                 |
|         |                                                              |                                 |                                     | 17.03.24                 | 18.03.24        | 19.03.24        | 20.03.24        | 21.03.24        | 22.03.24        | 23.03.24        | 24.03.24        |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 40.32                    | 42.90           | 38.23           | 43.85           | 41.60           | 45.16           | 39.81           | 42.17           |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 72.86                    | 74.35           | 68.59           | 75.28           | 72.85           | 79.28           | 70.65           | 73.28           |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 12.74                    | 13.86           | 11.42           | 13.86           | 12.74           | 15.47           | 11.74           | 13.59           |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 19.52                    | 20.75           | 17.64           | 19.27           | 18.23           | 23.12           | 17.28           | 20.42           |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 0.89                     | 0.92            | 1.04            | 1.10            | 1.08            | 1.14            | 1.05            | 1.12            |

Tested by:

A. Chatterjee

Authorized Signatory

P. Dutta (Technical Manager)

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GSTIN : 19AAECS3740C2ZJ



TC-8066

## TEST REPORT

|                                     |                                                                                                                              |                                       |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| REPORT NO. : N- 47                  | ULR-TC806624000000525F                                                                                                       | DATE - 15.04.2024                     |
| Name and Address of Customer:       | M/s. M.G. MOHANTY.<br><b>Patabeda Iron Mines ((14.000 Ha)</b><br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                                       |
| Work order No. and Date:            | MGM/VO/2023/24/11-164                                                                                                        | Dated:28/11/2023                      |
| Sample receiving date:              | 08.04.2024                                                                                                                   |                                       |
| Sub:                                | Environmental monitoring                                                                                                     |                                       |
| Material:                           | Ambient Air                                                                                                                  |                                       |
| Group:                              | Atmospheric Pollution                                                                                                        |                                       |
| Date of starting of Test 08.04.2024 | CHEMICAL TEST RESULT                                                                                                         | Date of completion of Test 13.04.2024 |

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                 |                 |                 |                 |                 |                 |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                 |                 |                 |                 |                 |                 |
|         |                                                              |                                 |                                     | AAQ-3 Dump (CZ)          | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date |                 |                 |                 |                 |                 |                 |
|         |                                                              |                                 |                                     | 25.03.24                 | 26.03.24        | 27.03.24        | 28.03.24        | 29.03.24        | 30.03.24        | 31.03.24        |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 41.27                    | 45.19           | 40.56           | 36.21           | 42.58           | 44.28           | 46.51           |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 72.81                    | 76.28           | 71.28           | 68.13           | 73.82           | 74.35           | 80.45           |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 13.89                    | 15.30           | 12.83           | 11.74           | 13.17           | 14.86           | 16.27           |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 19.56                    | 23.65           | 18.49           | 17.59           | 20.73           | 22.17           | 24.53           |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 1.08                     | 0.96            | 1.12            | 1.09            | 1.04            | 1.10            | 0.98            |

Tested by:

A. Chatterjee

Authorized Signatory

P. Dutta (Technical Manager)

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TC-8066

## TEST REPORT

|                               |                                                                                                                                         |                         |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| REPORT NO. : N- 1497          | ULR-TC806624000000499F                                                                                                                  | DATE -- 12.04.2024      |
| Name and Address of Customer: | <p>M/s. M.G. MOHANTY,<br/> <b>Patabeda Iron Mines ((14.000 Ha)</b><br/> Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha</p> |                         |
| Work order No. and Date:      | <b>MGM/WO/2023/24/11-164</b>                                                                                                            | <b>Dated:28/11/2023</b> |
| Sample receiving date:        | 22.03.2024                                                                                                                              |                         |
| Sub:                          | Environmental monitoring                                                                                                                |                         |
| Material:                     | Ambient Air                                                                                                                             |                         |
| Group:                        | Atmospheric Pollution                                                                                                                   |                         |

Date of starting of Test: 26.03.2024

CHEMICAL TEST RESULT

Date of completion of Test 01.04.2024

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                      |                      |                      |                      |                      |                      |                      |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                      |                      |                      |                      |                      |                      |                      |
|         |                                                              |                                 |                                     | AAQ-4 Haul Road (CZ)     | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date |                      |                      |                      |                      |                      |                      |                      |
|         |                                                              |                                 |                                     | 01.03.24                 | 02.03.24             | 03.03.24             | 04.03.24             | 05.03.24             | 06.03.24             | 07.03.24             | 08.03.24             |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 45.10                    | 42.54                | 48.52                | 43.18                | 48.52                | 46.98                | 41.75                | 45.84                |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 79.48                    | 75.49                | 85.46                | 77.83                | 84.15                | 78.41                | 76.99                | 80.46                |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 16.31                    | 14.37                | 18.65                | 13.41                | 17.30                | 15.23                | 13.67                | 15.27                |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 24.67                    | 23.01                | 26.94                | 19.27                | 25.76                | 23.81                | 18.13                | 24.58                |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 1.29                     | 1.31                 | 1.16                 | 1.32                 | 1.40                 | 1.36                 | 1.43                 | 1.39                 |

Tested by:

A. Chatterjee

Authorized Signatory

P. Dutta (Technical Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                             |                         |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------|
| REPORT NO. : N- 1497          | ULR-TC806624000000499F                                                                                                      | DATE - - 12.04.2024     |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br><b>Patabeda Iron Mines (14.000 Ha)</b><br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                         |
| Work order No. and Date:      | <b>MGM/WO/2023/24/11-164</b>                                                                                                | <b>Dated:28/11/2023</b> |
| Sample receiving date:        | 22.03.2024                                                                                                                  |                         |
| Sub:                          | Environmental monitoring                                                                                                    |                         |
| Material:                     | Ambient Air                                                                                                                 |                         |
| Group:                        | Atmospheric Pollution                                                                                                       |                         |

Date of starting of Test 26.03.2024

CHEMICAL TEST RESULT

Date of completion of Test 01.04.2024

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                      |                      |                      |                      |                      |                      |                      |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                      |                      |                      |                      |                      |                      |                      |
|         |                                                              |                                 |                                     | AAQ-4 Haul Road (CZ)     | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date |                      |                      |                      |                      |                      |                      |                      |
|         |                                                              |                                 |                                     | 09.03.24                 | 10.03.24             | 11.03.24             | 12.03.24             | 13.03.24             | 14.03.24             | 15.03.24             | 16.03.24             |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 47.31                    | 48.61                | 46.97                | 42.16                | 47.81                | 45.38                | 44.52                | 46.17                |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 82.15                    | 84.30                | 80.21                | 75.42                | 82.75                | 79.85                | 76.35                | 80.32                |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 17.64                    | 16.05                | 15.79                | 13.27                | 16.57                | 14.97                | 13.27                | 16.41                |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART- 6,2006, RA-2017   | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 25.43                    | 24.86                | 21.38                | 19.63                | 25.49                | 22.64                | 18.63                | 26.89                |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 1.28                     | 1.34                 | 1.40                 | 1.29                 | 1.42                 | 1.38                 | 1.19                 | 1.28                 |

Tested by:

*A. Chatterjee*  
A. Chatterjee

Authorized Signatory

*P. Dutta*  
P. Dutta (Technical Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                                |                   |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------|
| REPORT NO. : N - 47           | ULR-TC806624000000525F                                                                                                         | DATE - 15.04.2024 |
| Name and Address of Customer: | <p>M/s. M.G. MOHANTY,<br/>Patabeda Iron Mines ((14.000 Ha)<br/>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha</p> |                   |
| Work order No. and Date:      | MGM/WO/2023/24/11-164                                                                                                          | Dated:28/11/2023  |
| Sample receiving date:        | 08.04.2024                                                                                                                     |                   |
| Sub:                          | Environmental monitoring                                                                                                       |                   |
| Material:                     | Ambient Air                                                                                                                    |                   |
| Group:                        | Atmospheric Pollution                                                                                                          |                   |

Date of starting of Test: 08.04.2024 CHEMICAL TEST RESULT

Date of completion of Test 13.04.2024

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result          |                      |                      |                      |                      |                      |                      |                      |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS     |                      |                      |                      |                      |                      |                      |                      |
|         |                                                              |                                 |                                     | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) |
|         |                                                              |                                 |                                     | 17.03.24             | 18.03.24             | 19.03.24             | 20.03.24             | 21.03.24             | 22.03.24             | 23.03.24             | 24.03.24             |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 42.56                | 47.12                | 41.57                | 45.62                | 46.15                | 43.67                | 44.38                | 48.19                |
| 02      | Particulate Matter (PM <sub>10</sub> ) (µg/m <sup>3</sup> )  | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 75.07                | 83.64                | 74.15                | 79.54                | 82.74                | 76.52                | 78.56                | 87.31                |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 15.45                | 17.43                | 15.86                | 17.43                | 15.43                | 14.25                | 16.47                | 18.43                |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART- 6,2006, RA-2017   | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 24.35                | 27.38                | 23.98                | 26.37                | 23.81                | 21.34                | 24.35                | 27.64                |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 1.34                 | 1.31                 | 1.26                 | 1.32                 | 1.23                 | 1.19                 | 1.24                 | 1.18                 |

Tested by:

A. Chatterjee

Authorized Signatory

P. Dutta (Technical Manager)

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# SUPERINTENDENCE COMPANY OF INDIA PRIVATE LIMITED

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GSTIN : 19AAECS3740C2ZJ



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TC-8066

## TEST REPORT

|                               |                                                                                                                             |                         |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------|
| REPORT NO. : N- 47            | ULR-TC806624000000525F                                                                                                      | DATE - 15.04.2024       |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br><b>Patabeda Iron Mines (14.000 Ha)</b><br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                         |
| Work order No. and Date:      | <b>MGM/WO/2023/24/11-164</b>                                                                                                | <b>Dated:28/11/2023</b> |
| Sample receiving date:        | <b>08.04.2024</b>                                                                                                           |                         |
| Sub:                          | Environmental monitoring                                                                                                    |                         |
| Material:                     | Ambient Air                                                                                                                 |                         |
| Group:                        | Atmospheric Pollution                                                                                                       |                         |

Date of starting of Test **08.04.2024** CHEMICAL TEST RESULT Date of completion of Test **13.04.2024**

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                      |                      |                      |                      |                      |                      |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                      |                      |                      |                      |                      |                      |
|         |                                                              |                                 |                                     | AAQ-4 Haul Road (CZ)     | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date |                      |                      |                      |                      |                      |                      |
|         |                                                              |                                 |                                     | 25.03.24                 | 26.03.24             | 27.03.24             | 28.03.24             | 29.03.24             | 30.03.24             | 31.03.24             |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 48.61                    | 45.37                | 42.81                | 46.51                | 47.92                | 49.51                | 44.78                |
| 02      | Particulate Matter (PM <sub>10</sub> ) (µg/m <sup>3</sup> )  | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 84.73                    | 76.84                | 75.15                | 82.40                | 85.64                | 86.38                | 79.52                |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 18.29                    | 16.52                | 17.67                | 18.29                | 15.78                | 17.89                | 14.24                |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 26.46                    | 24.38                | 25.73                | 25.13                | 23.47                | 24.63                | 20.13                |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 1.25                     | 1.36                 | 1.27                 | 1.40                 | 1.36                 | 1.29                 | 1.38                 |

Tested by:

A. Chatterjee

Authorized Signatory

P. Dutta (Technical Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                      |                     |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------|---------------------|
| REPORT NO. : N- 1497          | ULR-TC806624000000499F                                                                                               | DATE - - 12.04.2024 |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br>Patabeda Iron Mines (14.000 Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                     |
| Work order No. and Date:      | MGM/WO/2023/24/11-164                                                                                                | Dated:28/11/2023    |
| Sample receiving date:        | 22.03.2024                                                                                                           |                     |
| Sub:                          | Environmental monitoring                                                                                             |                     |
| Material:                     | Ambient Air                                                                                                          |                     |
| Group:                        | Atmospheric Pollution                                                                                                |                     |

Date of starting of Test: 26.03.2024 CHEMICAL TEST RESULT Date of completion of Test 01.04.2024

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                           |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|---------------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                           |
|         |                                                              |                                 |                                     | AAQ-5<br>Ganua Camp (BZ) | AAQ-6<br>Guruda camp (BZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date |                           |
|         |                                                              |                                 |                                     | 04.03.24                 | 11.03.24                  |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART-24                | 60 (µg/m <sup>3</sup> )<br>24 Hrs.  | 36.14                    | 38.12                     |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> )<br>24 Hrs. | 64.39                    | 68.25                     |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> )<br>24 Hrs.  | 11.08                    | 10.56                     |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6, 2006, RA-2017   | 80 (µg/m <sup>3</sup> )<br>24 Hrs.  | 17.84                    | 16.48                     |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> )<br>1 Hrs.    | 0.85                     | 0.93                      |

Tested by:

  
A. Chatterjee

Authorized Signatory

  
P. Dutta (Technical Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                     |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------|
| ULR-TC806624000000518F        |                                                                                                                     |
| Report No.: N - 48            | Date – 15.04.2024                                                                                                   |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br>Patabeda Iron Mines (14.000Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |
| Work Order No. and Date       | MGM/WO/2023/24/11-164 Dated:28/11/2023                                                                              |
| Date of Sample Received:      | 08.04.2024                                                                                                          |
| Sub:                          | Environment Monitoring                                                                                              |
| Material:                     | Fugitive Dust Emission                                                                                              |
| Group:                        | Atmospheric Pollution                                                                                               |

### FUGITIVE DUST EMISSION MONITORING CHEMICAL TEST

2Date of starting of test: 12.04.2024

Date of completion of test: 13.04.2024

| Sl. No. | Name of Tests                                   | Test Method                    | Permissible Limit as per OPCB     | Test Result              |
|---------|-------------------------------------------------|--------------------------------|-----------------------------------|--------------------------|
|         |                                                 |                                |                                   | NAME OF STATIONS         |
|         |                                                 |                                |                                   | FD-1<br>Screening Plant  |
|         |                                                 |                                |                                   | Sampling Collection Date |
|         |                                                 |                                |                                   | 18.03.2024               |
| 01      | Particulate Matter ( $\mu\text{g}/\text{m}^3$ ) | IS:5182, PART-4, 2006, RA-2012 | 1200 ( $\mu\text{g}/\text{m}^3$ ) | 769.2                    |

Tested by:

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Authorized Signatory

P. Dutta (Technical Manager)

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TC-8066

## TEST REPORT

|                               |                                                                                                                      |                     |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------|---------------------|
| REPORT NO. : N - 1498         | ULR-TC806624000000500F                                                                                               | DATE - - 12.04.2024 |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br>Patabeda Iron Mines (14.000 Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                     |
| Ref. no. and Date:            | MGM/VO/2023/24/11-164                                                                                                | Dated:28/11/2023    |
| Sample receiving date:        | 22.03.2024                                                                                                           |                     |
| Sub:                          | Environmental monitoring                                                                                             |                     |
| Material:                     | Noise Monitoring                                                                                                     |                     |
| Group:                        | Atmospheric Pollution                                                                                                |                     |

### TEST REPORT

| S. N. | Name of tests                    | Reference                  | Permissible limit as per:<br>Ambient Noise Level     |                     | Location Details (Core Zone) |                  |                  |                        |
|-------|----------------------------------|----------------------------|------------------------------------------------------|---------------------|------------------------------|------------------|------------------|------------------------|
| 1.    | Equivalent Sound level dB(A) Leq | SUP/SO P/4033S D & IS:9989 | Standard as per Noise Pollution Regulation Rule-2000 |                     | 1 <sup>st</sup> Week         |                  |                  |                        |
|       |                                  |                            |                                                      |                     | N-1<br>Mines Quarry          | N-2<br>Haul Road | N-3<br>Work Shop | N-4<br>Screening Plant |
|       |                                  |                            | Category of area Zone                                | Limits in dB(A) Leq | 01.03.2024                   | 01.03.2024       | 01.03.2024       | 01.03.2024             |
|       |                                  |                            | 1. Industrial                                        | 75                  | 71.4                         | 68.1             | 71.7             | 73.0                   |
|       |                                  |                            | 2. Commercial                                        | 65                  |                              |                  |                  |                        |
|       |                                  |                            | 3. Residential                                       | 55                  |                              |                  |                  |                        |
|       |                                  |                            | 4. Silent                                            | 50                  |                              |                  |                  |                        |

Tested by:

A. Chatterjee

Authorized Signatory

P. Dutta (Technical Manager)

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## TEST REPORT



TC-8066

|                               |                                                                                                                                |                         |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| REPORT NO. : N - 1498         | ULR-TC806624000000500F                                                                                                         | DATE - - 12.04.2024     |
| Name and Address of Customer: | <i>M/s. M.G. MOHANTY,<br/>Patabeda Iron Mines ((14.000 Ha)<br/>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha</i> |                         |
| Ref. no. and Date:            | <b>MGM/WO/2023/24/11-164</b>                                                                                                   | <b>Dated:28/11/2023</b> |
| Sample receiving date:        | 22.03.2024                                                                                                                     |                         |
| Sub:                          | Environmental monitoring                                                                                                       |                         |
| Material:                     | Noise Monitoring                                                                                                               |                         |
| Group:                        | Atmospheric Pollution                                                                                                          |                         |

### TEST REPORT

| S. N. | Name of tests                    | Reference                  | Permissible limit as per:<br>Ambient Noise Level     |                     | Location Details (core zone) |                  |                  |                        |
|-------|----------------------------------|----------------------------|------------------------------------------------------|---------------------|------------------------------|------------------|------------------|------------------------|
| 1.    | Equivalent Sound level dB(A) Leq | SUP/SO P/4033S D & IS:9989 | Standard as per Noise Pollution Regulation Rule-2000 |                     | 2 <sup>nd</sup> Week         |                  |                  |                        |
|       |                                  |                            | Category of area Zone                                | Limits in dB(A) Leq | N-1<br>Mines Quarry          | N-2<br>Haul Road | N-3<br>Work Shop | N-4<br>Screening Plant |
|       |                                  |                            |                                                      |                     | 08.03.2024                   | 08.03.2024       | 08.03.2024       | 08.03.2024             |
|       |                                  |                            |                                                      |                     | 70.1                         | 69.5             | 70.2             | 71.3                   |
|       |                                  |                            |                                                      |                     |                              |                  |                  |                        |
|       |                                  |                            |                                                      |                     |                              |                  |                  |                        |
|       |                                  |                            |                                                      |                     |                              |                  |                  |                        |

Tested by:

A. Chatterjee

Authorized Signatory

P. Dutta (Technical Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                       |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| ULR-TC806624000000562F        |                                                                                                                       |
| REPORT NO. : N - 49           | DATE - 19.04.2024                                                                                                     |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br>Patabeda Iron Mines ((14.000 Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |
| Ref. no. and Date:            | MGM/WO/2023/24/11-164 Dated:28/11/2023                                                                                |
| Sample receiving date:        | 08.04.2024                                                                                                            |
| Sub:                          | Environmental monitoring                                                                                              |
| Material:                     | Noise Monitoring                                                                                                      |
| Group:                        | Atmospheric Pollution                                                                                                 |

### TEST REPORT

| S. N. | Name of tests                    | Reference                  | Permissible limit as per:<br>Ambient Noise Level     |                     | Location Details (core zone) |                  |                  |                        |
|-------|----------------------------------|----------------------------|------------------------------------------------------|---------------------|------------------------------|------------------|------------------|------------------------|
| 1.    | Equivalent Sound level dB(A) Leq | SUP/SO P/4033S D & IS:9989 | Standard as per Noise Pollution Regulation Rule-2000 |                     | 3rd Week                     |                  |                  |                        |
|       |                                  |                            | Category of area Zone                                | Limits in dB(A) Leq | N-1<br>Mines Quarry          | N-2<br>Haul Road | N-3<br>Work Shop | N-4<br>Screening Plant |
|       |                                  |                            |                                                      |                     | 15.03.2023                   | 15.03.2023       | 15.03.2023       | 15.03.2023             |
|       |                                  |                            |                                                      |                     | 71.4                         | 66.2             | 73.3             | 73.2                   |
|       |                                  |                            |                                                      |                     |                              |                  |                  |                        |
|       |                                  |                            |                                                      |                     |                              |                  |                  |                        |
|       |                                  |                            |                                                      |                     |                              |                  |                  |                        |
|       |                                  |                            | 1. Industrial                                        | 75                  |                              |                  |                  |                        |
|       |                                  |                            | 2. Commercial                                        | 65                  |                              |                  |                  |                        |
|       |                                  |                            | 3. Residential                                       | 55                  |                              |                  |                  |                        |
|       |                                  |                            | 4. Silent                                            | 50                  |                              |                  |                  |                        |

Tested by:

  
A. Chatterjee

Authorized Signatory

  
P. Dutta (Technical Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                          |                                                                                                                       |  |
|-------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------|--|
| REPORT NO. : N - 49           |                          | ULR-TC806624000000562F                                                                                                |  |
| Name and Address of Customer: |                          | DATE -19.04.2024                                                                                                      |  |
|                               |                          | M/s. M.G. MOHANTY.<br>Patabeda Iron Mines ((14.000 Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |  |
| Ref. no. and Date:            | MGM/WO/2023/24/11-164    | Dated:28/11/2023                                                                                                      |  |
| Sample receiving date:        | 08.04.2024               |                                                                                                                       |  |
| Sub:                          | Environmental monitoring |                                                                                                                       |  |
| Material:                     | Noise Monitoring         |                                                                                                                       |  |
| Group:                        | Atmospheric Pollution    |                                                                                                                       |  |

### TEST REPORT

| S. N. | Name of tests                              | Reference                           | Permissible limit as per:<br>Ambient Noise Level            |                           | Location Details (Core Zone) |                  |                     |                           |
|-------|--------------------------------------------|-------------------------------------|-------------------------------------------------------------|---------------------------|------------------------------|------------------|---------------------|---------------------------|
| 1.    | Equivalence<br>Sound level<br>dB(A)<br>Leq | SUP/SO<br>P/4033S<br>D &<br>IS:9989 | Standard as per Noise<br>Pollution Regulation Rule-<br>2000 |                           | 4 <sup>th</sup> Week         |                  |                     |                           |
|       |                                            |                                     | Category of<br>area Zone                                    | Limits in<br>dB(A)<br>Leq | N-1<br>Mines Quarry          | N-2<br>Haul Road | N-3<br>Work<br>Shop | N-4<br>Screening<br>Plant |
|       |                                            |                                     |                                                             |                           | 22.03.2023                   | 22.03.2023       | 22.03.2023          | 22.03.2023                |
|       |                                            |                                     |                                                             |                           | 72.1                         | 67.2             | 72.5                | 71.3                      |
|       |                                            |                                     |                                                             |                           |                              |                  |                     |                           |
|       |                                            |                                     |                                                             |                           |                              |                  |                     |                           |
|       |                                            |                                     | 1. Industrial                                               | 75                        |                              |                  |                     |                           |
|       |                                            |                                     | 2. Commercial                                               | 65                        |                              |                  |                     |                           |
|       |                                            |                                     | 3. Residential                                              | 55                        |                              |                  |                     |                           |
|       |                                            |                                     | 4. Silent                                                   | 50                        |                              |                  |                     |                           |

Tested by:

  
A. Chatterjee

Authorized Signatory

  
P. Dutta (Technical Manager)

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GSTIN : 19AAECS3740C2ZJ

**TEST REPORT**



|                               |                                                                                                                              |                  |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------|
| ULR-TC806624000000562F        |                                                                                                                              | DATE -19.04.2024 |
| REPORT NO. : N -49            |                                                                                                                              |                  |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br><b>Patabeda Iron Mines ((14.000 Ha)</b><br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                  |
| Ref. no. and Date:            | MGM/WO/2023/24/11-164                                                                                                        | Dated:28/11/2023 |
| Sample receiving date:        | 08.04.2024                                                                                                                   |                  |
| Sub:                          | Environmental monitoring                                                                                                     |                  |
| Material:                     | Noise Monitoring                                                                                                             |                  |
| Group:                        | Atmospheric Pollution                                                                                                        |                  |

**TEST REPORT**

| S. N. | Name of tests                     | Reference                  | Permissible limit as per: Ambient Noise Level        |                     | Location Details (core zone) |               |              |                   |
|-------|-----------------------------------|----------------------------|------------------------------------------------------|---------------------|------------------------------|---------------|--------------|-------------------|
|       |                                   |                            |                                                      |                     | 5 <sup>th</sup> Week         |               |              |                   |
| 1.    | Equivalence Sound level dB(A) Leq | SUP/SO P/4033S D & IS:9989 | Standard as per Noise Pollution Regulation Rule-2000 |                     | N-1 Mines Quarry             | N-2 Haul Road | N-3 D.G. Set | N-4 Crusher Plant |
|       |                                   |                            | Category of area Zone                                | Limits in dB(A) Leq | 29.03.2023                   | 29.03.2023    | 29.03.2023   | 29.03.2023        |
|       |                                   |                            |                                                      |                     | 72.4                         | 68.2          | 70.3         | 73.5              |
|       |                                   |                            |                                                      |                     |                              |               |              |                   |
|       |                                   |                            |                                                      |                     |                              |               |              |                   |
|       |                                   |                            |                                                      |                     |                              |               |              |                   |
|       |                                   |                            | 1. Industrial                                        | 75                  | 72.4                         | 68.2          | 70.3         | 73.5              |
|       |                                   |                            | 2. Commercial                                        | 65                  |                              |               |              |                   |
|       |                                   |                            | 3. Residential                                       | 55                  |                              |               |              |                   |
|       |                                   |                            | 4. Silent *                                          | 50                  |                              |               |              |                   |

Tested by:

  
**A. Chatterjee**

Authorized Signatory

  
**P. Dutta**  
 (Technical Manager)

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TC-8066

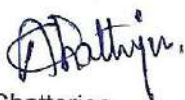
## TEST REPORT

|                               |                                                                                                                      |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------|
| ULR-TC806624000000500F        |                                                                                                                      |
| REPORT NO. : N- 1498          | DATE: - 12.04.2024                                                                                                   |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br>Patabeda Iron Mines (14.000 Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |
| Ref. no. and Date:            | MGM/WO/2023/24/11-164 Dated:28/11/2023                                                                               |
| Sample receiving date:        | 08.04.2024                                                                                                           |
| Sub:                          | Environmental monitoring                                                                                             |
| Material:                     | Noise Monitoring                                                                                                     |
| Group:                        | Atmospheric Pollution                                                                                                |

## TEST REPORT

| S.N. | Name of tests                       | Reference                       | Permissible limit as per:<br>Ambient Noise Level            |                        | Location Details (Buffer zone)                 |                                               |
|------|-------------------------------------|---------------------------------|-------------------------------------------------------------|------------------------|------------------------------------------------|-----------------------------------------------|
| 1.   | Equivalent Sound level<br>dB(A) Leq | SUP/SOP/4<br>033SD &<br>IS:9989 | Standard as per Noise<br>Pollution Regulation Rule-<br>2000 |                        | N- 5<br><u>Ganua camp</u><br><b>07.03.2024</b> | N- 6<br><u>Garuda camp</u><br><b>21.03.24</b> |
|      |                                     |                                 | Category of<br>area Zone                                    | Limits in<br>dB(A) Leq | Quarterly Report                               |                                               |
|      |                                     |                                 | 1. Industrial                                               | 75                     | <b>40.2</b>                                    | <b>41.7</b>                                   |
|      |                                     |                                 | 2. Commercial                                               | 65                     |                                                |                                               |
|      |                                     |                                 | 3. Residential                                              | 55                     |                                                |                                               |
|      |                                     |                                 | 4. Silent                                                   | 50                     |                                                |                                               |

Tested by:



A. Chatterjee

Authorized Signatory



P. Dutta

(Technical Manager)

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# SUPERINTENDENCE COMPANY OF INDIA PRIVATE LIMITED

## LABORATORY :

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Website : www.superintendencecoindia.com

GSTIN : 19AAECS3740C2ZJ



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TC-8066

## TEST REPORT

|                               |                                                                                                                            |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| ULR-TC806624000000496F        |                                                                                                                            |
| Report No. N- 1499            | Date: 12.04.2024                                                                                                           |
| Name and Address of Customer: | M/s. M.G. MOHANTY,<br>Patabeda Iron Mines <b>(14.000Ha)</b><br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |
| Work-order no. and Date:      | MGM/WO/2023/24/11-164 Dated:28/11/2023                                                                                     |
| Sample receiving date:        | 22.03.2024                                                                                                                 |
| Sub:                          | Water monitoring                                                                                                           |
| Material:                     | Ground Water.                                                                                                              |
| Group:                        | Water                                                                                                                      |

### CHEMICAL REPORT

Date of starting of Test 22.03.2024

Date of completion of Test:10.04.2024

| Sl. No. | Specific Test Performed                                   | Test Method                             | Permissible limit<br>IS:10500/2<br>012<br>( max) | Test Result                                                    |
|---------|-----------------------------------------------------------|-----------------------------------------|--------------------------------------------------|----------------------------------------------------------------|
|         |                                                           |                                         |                                                  | GW-1<br>Mines,( Bore Well)<br>Date of Collection<br>14.03.2024 |
| 1       | pH                                                        | IS :3025,P-11, R.A 2009                 | 6.5 – 8.5                                        | 6.5                                                            |
| 2       | Colour(Hazen unit)                                        | APHA, 23rd Edn, 2120 B                  | 15                                               | <1.0                                                           |
| 3       | Total Hardness as CaCO <sub>3</sub> ,mg/l                 | IS 3025 (P-21), R.A. 2006               | 600                                              | 44                                                             |
| 4       | Alkalinity as CaCO <sub>3</sub> ,mg/l                     | IS 3025 (P-23), R.A. 2014               | 600                                              | 44                                                             |
| 5       | Chlorides as Cl , mg/l                                    | IS 3025, P-32                           | 1000                                             | 8                                                              |
| 6       | Calcium as Ca, mg/l                                       | APHA 23rd EDN 3500 Ca B                 | 200                                              | 11.2                                                           |
| 7       | Magnesium as Mg, mg/l                                     | APHA 23rd EDN 3500 Mg B                 | 100                                              | 3.88                                                           |
| 8       | Residual Free Chlorine, mg/l                              | IS 3025, P-34                           | 1.0                                              | <1.0                                                           |
| 9       | Sulphate as SO <sub>4</sub> ,mg/l                         | APHA, 23rd Edn, 4500 SO <sub>4</sub> E  | 400                                              | <1.0                                                           |
| 10      | Nitrate as NO <sub>3</sub> , mg/l                         | APHA, 23rd Edn, 4500 NO <sub>3</sub> -B | 45                                               | 1.6                                                            |
| 11      | Iron as Fe,mg/l                                           | APHA, 23rd Edn, 3111 B                  | 0.3                                              | 0.243                                                          |
| 12      | Copper as Cu,mg/l                                         | APHA, 23rd Edn, 3111 B & C              | 1.5                                              | <0.05                                                          |
| 13      | Manganese as Mn,mg/l                                      | APHA, 23rd Edn, 3111 B                  | 0.3                                              | <0.03                                                          |
| 14      | Phenolic Compounds C <sub>6</sub> H <sub>5</sub> OH, mg/l | APHA, 23rd Edn, 5530 D                  | 0.002                                            | <0.002                                                         |
| 15      | Zinc as Zn, mg/l                                          | APHA, 23rd Edn, 3111 B & C              | 15.0                                             | <0.01                                                          |
| 16      | Cadmium as Cd, mg/l                                       | APHA, 23rd Edn, 3111 B & C              | 0.003                                            | <0.003                                                         |
| 17      | Arsenic as As, mg/l                                       | APHA, 23rd Edn, 3120 B                  | 0.05                                             | <0.05                                                          |
| 18      | Cyanide as CN, mg/l                                       | APHA, 23rd Edn, 4500 E                  | 0.05                                             | <0.05                                                          |
| 19      | Lead as pb                                                | --                                      | -                                                | <0.01                                                          |
| 20      | Fluoride as F, mg/l                                       | APHA, 23rd Edn, 4500 F – D              | 1.5                                              | 0.169                                                          |
| 21      | Total Dissolved solids (mg/l)                             | IS :3025, P-16, RA-2012                 | 2000                                             | 50                                                             |
| 22      | Aluminium as Al mg/l                                      | APHA 23rd Edn 3500 Al-B                 | 0.2                                              | <0.2                                                           |
| 23      | Boron as B mg/l                                           | APHA 23rd Edn 4500 B-B                  | 1.0                                              | <1.0                                                           |
| 24      | Mercury as Hg, mg/l                                       | IS 3025, P-48, Mercury Analyser         | 0.001                                            | <0.001                                                         |
| 25      | Turbidity (NTU)                                           | IS 3025 (P-10), R.A. 2006               | 5                                                | <1.0                                                           |
| 26      | Total Chromium as Cr <sup>+6</sup> , mg/l                 | APHA, 23rd Edn, 3500 B                  | 0.05                                             | <0.05                                                          |

Tested by

A. CHATTERJEE

Authorised Signatory

P. DUTTA (Technical Manager)

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Website : www.superintendencecoindia.com

GSTIN : 19AAECS3740C2ZJ



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TC-8066

## TEST REPORT

|                               |                                                                                                                                                |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Report No. N- 1499            |                                                                                                                                                |
| Name and Address of Customer: | <b>Date:</b> 12.04.2024<br>M/s. M.G. MOHANTY.<br>Patabeda Iron Mines (14.000Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |
| Work-order no. and Date:      | <b>MGM/WO/2023/24/11-164 Dated:28/11/2023</b>                                                                                                  |
| Sample receiving date:        | <b>22.03.2024</b>                                                                                                                              |
| Sub:                          | Water monitoring                                                                                                                               |
| Material:                     | Drinking Water.                                                                                                                                |
| Group:                        | Water                                                                                                                                          |

Date of starting of Test **22.03.2024**

### CHEMICAL REPORT

Date of completion of Test: 03.04.2024

| Sl. No. | Specific Test Performed | Test Method               | Permissible limit<br>IS:10500/2012<br>( max)) | Test Result                                                             |
|---------|-------------------------|---------------------------|-----------------------------------------------|-------------------------------------------------------------------------|
|         |                         |                           |                                               | <b>GW1<br/>Mines,( Bore Well)<br/>Date of Collection<br/>14.03.2024</b> |
| 27      | Temperature °C          | APHA, 23rd Edn, 2550 B    | -                                             | <b>17 °C</b>                                                            |
| 28      | Mineral oil ,mg/l       | IS :3025,P-39, R.A 2009   | 0.5                                           | <0.5                                                                    |
| 29      | Odour                   | IS 3025 (P-06), R.A. 1983 | Agreeable                                     | Agreeable                                                               |
| 30      | Taste                   | IS 3025 (P-07), R.A. 1984 | Agreeable                                     | Agreeable                                                               |

Tested by:

A. CHATTERJEE

Authorised Signatory

P. Dutta (Technical Manager)

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TC-8066

## TEST REPORT

|                               |                                                                                                                            |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Report No. N- 1499            | Date: 12.04.2024                                                                                                           |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br>Patabeda Iron Mines <b>(14.000Ha)</b><br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |
| Work-order no. and Date:      | <b>MGM/WO/2023/24/11-164</b> Dated: <b>28/11/2023</b>                                                                      |
| Sample receiving date:        | 22.03.2024                                                                                                                 |
| Sub:                          | Water monitoring                                                                                                           |
| Material:                     | Drinking Water.                                                                                                            |

### TEST RESULT OF BACTERIOLOGICAL

Date of starting of Test: **22.03.2024**

Date of completion of Test: 03.04.2024

| Sl. No. | Specific Test Performed     | Test Method        | Permissible Limits as per 10500:2012     | Test Result                                                                |
|---------|-----------------------------|--------------------|------------------------------------------|----------------------------------------------------------------------------|
|         |                             |                    |                                          | <b>GW1 Mines, ( Bore Well)</b><br><br>Date of Collection <b>14.03.2024</b> |
| 1       | Coliform Organism / 100 ml. | As per IS: 1622-81 | Shall not be detectable in 100 ml sample | Not found / 100ml                                                          |
| 2       | E. Coli / 100ml.            |                    | Shall not be detectable in 100 ml sample | Not found / 100ml                                                          |

Tested by:

*R Dasgupta*  
R Dasgupta

*H. Ray*  
H. Ray

*Antara Das*  
Antara Das

Authorised Signatory

*P. Dutta*  
P. Dutta (Technical Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                  |                         |
|-------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------|
| <b>Report No N - 1500</b>     | <b>ULR-TC806624000000497F</b>                                                                                    | <b>DATE -12.04.2024</b> |
| Name and Address of Customer: | M/s. M.G. MOHANTY, Patabeda Iron Mines (14.000Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                         |
| Work-order no. and Date:      | <b>MGM/WO/2023/24/11-164</b>                                                                                     | <b>Dated:28/11/2023</b> |
| Sample receiving date:        | 22.03.2024                                                                                                       |                         |
| Sub:                          | Water monitoring                                                                                                 |                         |
| Material:                     | Surface Water                                                                                                    |                         |
| Group:                        | Water                                                                                                            |                         |

### CHEMICAL REPORT

Date of starting of Test 22.03.2024

Date of completion of Test: 10.04.2024

| Sl. No. | Specific Test Performed      | Test Method                    | Test Result                                                                        |                                                                                      |
|---------|------------------------------|--------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|         |                              |                                | SW1<br>Up-Stream<br>(Kakarpani Nallaha)<br>Date of Collection<br><b>14.03.2024</b> | SW2<br>Down-Stream<br>(Kakarpani Nallaha)<br>Date of collection<br><b>14.03.2024</b> |
| 1       | pH at 25°C                   | IS :3025,P-11, R.A 2009        |                                                                                    |                                                                                      |
| 2       | Turbidity(NTU)               | IS 3025 (P-10), RA2006         | 6.7                                                                                | 6.8                                                                                  |
| 3       | Alkalinity as CaCo3 mg/l     | IS 3025 (P-23), RA2014         | 2.3                                                                                | 3.1                                                                                  |
| 4       | Chloride as Cl mg/l          | IS 3025 (P-32), RA2009         | 52                                                                                 | 36                                                                                   |
| 5       | Total Hardness as CaCo3 mg/l | IS 3025 (P-21), RA2006         | 8                                                                                  | 8                                                                                    |
| 6       | Calcium as Ca mg/l           | APHA 23rd EDN 3500Ca B         | 32                                                                                 | 36                                                                                   |
| 7       | Magnesium as Mg mg/l         | APHA 23rd EDN 3500 Mg B        | 9.3                                                                                | 8.0                                                                                  |
| 8       | Sulphate as So4 mg/l         | APHA 23rd EDN 4500 SO4 E       | 1.94                                                                               | 3.4                                                                                  |
| 9       | Nitrate as No3 mg/l          | APHA 23rd EDN 4500 NO3 B       | <1.0                                                                               | 4.0                                                                                  |
| 10      | Fluoride as F mg/l           | APHA 23rd EDN 4500 F D         | 1.6                                                                                | 3.5                                                                                  |
| 11      | Total dissolve Solids mg/l   | IS 3025 (P-16), RA2012         | <0.1                                                                               | <0.1                                                                                 |
| 12      | Total Suspended Solids mg/l  | APHA 23rd EDN 2540 D           | 34                                                                                 | 34                                                                                   |
| 13      | D.O.                         | APHA 23rd EDN 4500 O-C         | 8                                                                                  | 12                                                                                   |
| 14      | Iron as Fe mg/l              | APHA 23rd EDN 3111 B           | 3.9                                                                                | 3.8                                                                                  |
| 15      | Copper as Cu mg/l            | APHA 23rd EDN 3111 B & C       | 0.262                                                                              | 0.345                                                                                |
| 16      | Zinc as Zn mg/l              | APHA 23rd EDN 3111 B & C       | <0.05                                                                              | <0.01                                                                                |
| 17      | Lead as Pb mg/l              | APHA 23rd EDN 3120 B           | <0.01                                                                              | <0.01                                                                                |
| 18      | Cadmium as Cd mg/l           | APHA 23rd EDN 3111 B & C       | <0.01                                                                              | <0.01                                                                                |
| 19      | Arsenic as As mg/l           | APHA 23rd EDN 3120 B           | <0.01                                                                              | <0.01                                                                                |
| 20      | Mercury as Hg mg/l           | IS 3025 (P-48)MURCURY ANALYSER | <0.05                                                                              | <0.05                                                                                |
| 21      | Chromium as Cr +6mg/l        | APHA 23rd EDN 3500 B           | <0.01                                                                              | <0.01                                                                                |
| 22      | Phenolic compound mg/l       | APHA 23rd EDN 5530 D           | <0.05                                                                              | <0.05                                                                                |
|         |                              |                                | <0.002                                                                             | <0.002                                                                               |

Tested by:

A. CHATTERJEE

Authorized Signatory

( P. Dutta (Technical Manager)

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## TEST REPORT

|                               |                                                                                                                     |                   |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------|-------------------|
| Report No. N- 1500            |                                                                                                                     | DATE - 12.04.2024 |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br>Patabeda Iron Mines (14.000Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                   |
| Work-order no. and Date:      | MGM/WO/2023/24/11-164                                                                                               | Dated:28/11/2023  |
| Sample receiving date:        | 22.03.2024                                                                                                          |                   |
| Sub:                          | Water monitoring                                                                                                    |                   |
| Material:                     | Surface Water                                                                                                       |                   |
| Group:                        | Water                                                                                                               |                   |

Date of starting of Test 22.03.2024

### CHEMICAL REPORT

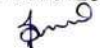
Date of completion of test :10.04.2024

| Sl. No. | Specific Test Performed     | Test Method                                      | Test Result                             |                                           |
|---------|-----------------------------|--------------------------------------------------|-----------------------------------------|-------------------------------------------|
|         |                             |                                                  | SW1<br>Up-Stream<br>(Kakarpani Nallaha) | SW2<br>Down-Stream<br>(Kakarpani Nallaha) |
|         |                             |                                                  | Date of Collection<br>14.03.2024        | Date of Collection<br>14.03.2024          |
| 23      | Temperature                 | APHA 23 <sup>rd</sup> EDN 2550 B                 | 17°C                                    | 18°C                                      |
| 24      | Residual Free Chlorine mg/l | IS 3025 (P-26), RA2009                           | <1.0                                    | <1.0                                      |
| 25      | COD mg/l                    | APHA 23 <sup>rd</sup> EDN 5220 B                 | 6                                       | 8                                         |
| 26      | Oil and Grease mg/l         | IS 3025 (P-39), RA2009                           | 2.4                                     | 148                                       |
| 27      | Aluminium as Al mg/l        | APHA 23 <sup>rd</sup> EDN 3500 Al-B              | <0.2                                    | <0.2                                      |
| 28      | Boron as B mg/l             | APHA 23 <sup>rd</sup> EDN 4500 B-B               | <1.0                                    | <1.0                                      |
| 29      | Manganese as Mn mg/l        | APHA 23 <sup>rd</sup> EDN 3111 B                 | <0.03                                   | <0.03                                     |
| 30      | Nickel as Ni mg/l           | APHA 23 <sup>rd</sup> EDN 3111 B & C             | <0.02                                   | <0.02                                     |
| 31      | Cyanide as CN mg/l          | APHA 23 <sup>rd</sup> EDN 4500 E                 | <0.05                                   | <0.05                                     |
| 32      | Sulphide as S mg/l          | APHA 23 <sup>rd</sup> EDN 4500 S <sup>2</sup> -F | N.T                                     | N.T                                       |
| 33      | Free Ammonia as N mg/l      | IS 3025 (P-34)                                   | N.T                                     | N.T                                       |
| 34      | Kjeldahl Nitrogen as N mg/l | IS 3025 (P-34)                                   | 8                                       | 11                                        |
| 35      | Ammonia as N mg/l           | IS 3025 (P-34)                                   | <0.02                                   | <0.02                                     |

Tested by:

  
A. CHATTERJEE

Authorized Signatory

  
P. Dutta (Technical Manager)

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GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                            |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| ULR-TC806624000000498F        |                                                                                                                            |
| Report No. N- 1501            | Date 12.04.2024                                                                                                            |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br>Patabeda Iron Mines <b>(14.000Ha)</b><br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |
| Work-order no. and Date:      | MGM/WO/2023/24/11-164 Dated:28/11/2023                                                                                     |
| Sample receiving date:        | 22.03.2024                                                                                                                 |
| Sub:                          | EFFLUENT WATER REPORT (ETP, STP OUTLET)                                                                                    |
| Material:                     | Effluent Water                                                                                                             |
| Group:                        | Pollution and environment                                                                                                  |

### CHEMICAL REPORT

Date of starting of Test 22.03.2024

Date of completion of Test: 11.04.2024

| Sl. No. | Name of Parameter                               | Test Methods                | CPCB Prescribed Limit for Inland Surface water (Max) |         | Results                   |                           |
|---------|-------------------------------------------------|-----------------------------|------------------------------------------------------|---------|---------------------------|---------------------------|
|         |                                                 |                             | ETP                                                  | STP     | ETP - 14 Outlet Water     | STP - 14 Outlet Water     |
|         |                                                 |                             |                                                      |         | Date of Collection        | Date of Collection        |
| 1       | pH                                              | IS 3025(P-11) R.A.2009      | 5.5-9.0                                              | 5.5-9.0 | 14.03.2024<br>7.1 at 19°C | 14.03.2024<br>7.6 at 20°C |
| 2       | Total Dissolve Solids mg/l                      | IS 3025(P-16) R.A.2006      | N/S                                                  | 2100    | 280                       | 283                       |
| 3       | Total suspended solids mg/l                     | IS 3025(P-17) 1984 R.A.2012 | 100                                                  | 200     | 26                        | 45                        |
| 4       | Chemical Oxygen Demand mg/l                     | APHA 23rd EDN 5220 B        | 250                                                  | N/S     | 8                         | 10                        |
| 5       | Bio Chemical Oxygen Demand 3 days at 27° C mg/l | IS 3025(P-44),1993 R.A 1999 | 30                                                   | 30      | <3.0                      | <3.0                      |
| 6       | Oil and Grease mg/l                             | IS 3025(P-39), R.A.2009     | 10                                                   | N/S     | 3.0                       | N/R                       |
| 7       | Iron as Fe mg/l                                 | APHA 23rd EDN 3111 B        | 3.0                                                  | 3.0     | 0.862                     | 0.432                     |
| 8       | Manganese as Mn mg/l                            | APHA 23rd EDN 3111 B        | 2.0                                                  | 2.0     | 0.116                     | <0.03                     |
| 9       | Chloride as cl mg/l                             | IS 3025, P-32               | N/S                                                  | N/S     | N/R                       | 30                        |

Tested by:

A. CHATTERJEE

Authorized Signatory

P. Dutta (Technical Manager)

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# SUPERINTENDENCE COMPANY OF INDIA PRIVATE LIMITED

## LABORATORY :

PLOT NO. Y-23, BLOCK-EP, SECTOR-V, SALT LAKE CITY, KOLKATA-700 091  
☎ : (033) 2357-4671 / 4681 / 5039 / 5042 • Fax : (033) 2357- 4806  
E-mail : supind2019@gmail.com / supind50@yahoo.co.in  
Website : www.superintendencecoindia.com



GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                            |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Report No. N- 1501            | Date 12.04.2024                                                                                                            |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br>Patabeda Iron Mines <b>(14.000Ha)</b><br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |
| Work-order no. and Date:      | <b>MGM/WO/2023/24/11-164</b> Dated:28/11/2023                                                                              |
| Sample receiving date:        | 21.03.2024                                                                                                                 |
| Sub:                          | EFFLUENT WATER MONITORING REPORT (STP OUTLET)                                                                              |
| Material:                     | Effluent Water Monitoring                                                                                                  |
| Group:                        | Pollution and environment                                                                                                  |

### TEST RESULT OF BACTERIOLOGICAL

| Date of starting of Test: 22.03.2024 |                          | Date of completion of Test 10.04.2024 |                                |                                          |
|--------------------------------------|--------------------------|---------------------------------------|--------------------------------|------------------------------------------|
| Sl. No.                              | Specific Test Performed  | Test Method                           | Permissible Limits as per OPCB | Test Result                              |
|                                      |                          |                                       |                                | STP 14 Out-let Water<br>DATE- 14.03.2024 |
| 1                                    | Fecal Coliform (MPN/100) | As per IS: 1622-1981                  | <1000                          | 900cfu/100ml                             |

Tested by:

R. Dasgupta

H. Ray

Antara Das

Authorised Signatory

P. Dutta (Technical Manager)

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**SUPERINTENDENCE CO. OF INDIA (P) LTD.**

**ENVIRONMENTAL BASELINE DATA GENERATION  
AT**

**M/S – M.G.MOHANTY  
PROJECT: Patabeda Iron Mines (14.000 Ha)**

**Work Order no.: MGM/WO/2023/24/11-164**

**Dated: 28/11/2023**

**NAME OF WORK:  
ENVIRONMENTAL MONITORING**

**REPORT  
FOR THE MONTH OF FEBRUARY 2024**

\*\*\*\*\*

**REPORT SUBMITTED BY:**

**SUPERINTENDENCE CO. OF INDIA (P) LTD**

**Y-23, Block EP, Sector V, Salt Lake City-7000 91  
Ph. No. : (033) - 2357-1492/4670/4671/4681**

**Fax: 033- 2357-4806**

**E-mail: supind50@yahoo.co.in**

**Website: www.superintendence.co**





# SUPERINTENDENCE COMPANY OF INDIA PRIVATE LIMITED

(An ISO 9001 : 2015 Certified)

Regional office : Plot No. Y-23, Block-EP, Sector-V, Salt Lake City, Kolkata-700 091, Phone : (033) 2357-4671/4681/4873/5039/5042

Fax : (033) 2357-4806, E-mail : supind2019@gmail.com, supind50@yahoo.co.in, Website : www.superintendencecoindia.com

Ref.: SUENV/ M.G. MOHANTY(14.000 Ha) /SP/KB /347

Date: 18.03.2024

To  
**The Mines Manager,**  
M/s. M.G. Mohanty.  
Patabeda Iron Mines (14.000 Ha)  
Patabeda, P.O. Malda, P.S. Koira,  
Dist.: Sundergarh, Odisha

Sub: Submission of Test Report for the Month of **FEBRUARY 2023**

Work Order no & Dated.: **MGM/WO/2023/24/11-164**

**Dated:28/11/2023**

Dear Sir,

We are submitting herewith test reports for the month of **FEBRUARY 2023** as follows:

- Ambient Air Monitoring (5 Parameters).
- Fugitive Dust
- Noise Monitoring
- Surface Water Quality
- ETP & STP Out Let Treated Water

Thanking you,

With Regards,

**Superintendence Co. of India (P) Ltd.**

**S. Paul**  
**(ADDL.DIRECTOR)**  
Encl: as above



TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                                      |                                                                                                                                            |                                       |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| REPORT NO. : N- 1344                 | ULR-TC806624000000348F                                                                                                                     | DATE - 15.03.2024                     |
| Name and Address of Customer:        | <b>M/s. M.G. MOHANTY.</b><br><b>Patabeda Iron Mines ((14.000 Ha)</b><br><b>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha</b> |                                       |
| Work order No. and Date:             | <b>MGM/VO/2023/24/11-164</b>                                                                                                               | <b>Dated:28/11/2023</b>               |
| Sample receiving date:               | 21.02.2024                                                                                                                                 |                                       |
| Sub:                                 | Environmental monitoring                                                                                                                   |                                       |
| Material:                            | Ambient Air                                                                                                                                |                                       |
| Group:                               | Atmospheric Pollution                                                                                                                      |                                       |
| Date of starting of Test: 23.02.2024 | <b>CHEMICAL TEST RESULT</b>                                                                                                                | Date of completion of Test 01.03.2024 |

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                         |                         |                         |                         |                         |                         |                         |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                         |                         |                         |                         |                         |                         |                         |
|         |                                                              |                                 |                                     | AAQ-1 Mines Quarry (CZ)  | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date |                         |                         |                         |                         |                         |                         |                         |
|         |                                                              |                                 |                                     | 01.02.24                 | 02.02.24                | 03.02.24                | 04.02.24                | 05.01.24                | 06.02.24                | 07.02.24                | 08.02.24                |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 46.21                    | 49.58                   | 42.56                   | 48.73                   | 52.34                   | 43.59                   | 47.56                   | 45.89                   |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 75.03                    | 82.47                   | 74.47                   | 81.51                   | 85.26                   | 76.45                   | 79.74                   | 78.26                   |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 14.89                    | 16.65                   | 13.25                   | 15.82                   | 12.88                   | 16.34                   | 15.37                   | 14.64                   |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 20.70                    | 21.94                   | 19.34                   | 21.45                   | 18.63                   | 20.82                   | 23.93                   | 20.27                   |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 1.08                     | 1.06                    | 0.98                    | 1.12                    | 1.04                    | 0.97                    | 1.03                    | 1.15                    |

Tested by:

A. Chatterjee

Authorized Signatory

J.N.BERA  
(Quality Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                                            |                         |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| REPORT NO. : N- 1344          | ULR-TC806624000000348F                                                                                                                     | DATE - 15.03.2024       |
| Name and Address of Customer: | <b>M/s. M.G. MOHANTY.</b><br><b>Patabeda Iron Mines ((14.000 Ha)</b><br><b>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha</b> |                         |
| Work order No. and Date:      | <b>MGM/WO/2023/24/11-164</b>                                                                                                               | <b>Dated:28/11/2023</b> |
| Sample receiving date:        | 21.02.2024                                                                                                                                 |                         |
| Sub:                          | Environmental monitoring                                                                                                                   |                         |
| Material:                     | Ambient Air                                                                                                                                |                         |
| Group:                        | Atmospheric Pollution                                                                                                                      |                         |

Date of starting of Test: 23.02.2024 **CHEMICAL TEST RESULT** Date of completion of Test 01.03.2024

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                         |                         |                         |                         |                         |                         |                         |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                         |                         |                         |                         |                         |                         |                         |
|         |                                                              |                                 |                                     | AAQ-1 Mines Quarry (CZ)  | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date |                         |                         |                         |                         |                         |                         |                         |
|         |                                                              |                                 |                                     | 09.02.24                 | 10.02.24                | 11.02.24                | 12.02.24                | 13.02.24                | 14.02.24                | 15.02.24                | 16.02.24                |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 45.89                    | 44.61                   | 48.69                   | 45.62                   | 42.37                   | 40.87                   | 46.78                   | 40.51                   |
| 02      | Particulate Matter (PM <sub>10</sub> ) (µg/m <sup>3</sup> )  | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 78.26                    | 75.85                   | 80.74                   | 76.85                   | 72.42                   | 70.25                   | 76.35                   | 72.49                   |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 14.64                    | 14.26                   | 18.23                   | 12.34                   | 12.34                   | 13.54                   | 15.24                   | 14.32                   |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 20.72                    | 21.57                   | 24.51                   | 19.76                   | 18.76                   | 20.43                   | 22.83                   | 23.28                   |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 1.15                     | 1.06                    | 0.97                    | 1.10                    | 1.09                    | 0.98                    | 1.12                    | 1.08                    |

Tested by:

A. Chatterjee

Authorized Signatory

J.N BERA  
(Quality Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                       |                   |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------|
| REPORT NO. : N- 1410          | ULR-TC806624000000349F                                                                                                | DATE - 15.03.2024 |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br>Patabeda Iron Mines ((14.000 Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                   |
| Work order No. and Date:      | MGM/VO/2023/24/11-164                                                                                                 | Dated:28/11/2023  |
| Sample receiving date:        | 06.03.2024                                                                                                            |                   |
| Sub:                          | Environmental monitoring                                                                                              |                   |
| Material:                     | Ambient Air                                                                                                           |                   |
| Group:                        | Atmospheric Pollution                                                                                                 |                   |

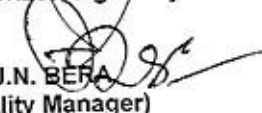
Date of starting of Test: 09.03.2024 CHEMICAL TEST RESULT Date of completion of Test 15.03.2024

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                         |                         |                         |                         |                         |                         |                         |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                         |                         |                         |                         |                         |                         |                         |
|         |                                                              |                                 |                                     | AAQ-1 Mines Quarry (CZ)  | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date |                         |                         |                         |                         |                         |                         |                         |
|         |                                                              |                                 |                                     | 17.02.24                 | 18.02.24                | 19.02.24                | 20.02.24                | 21.02.24                | 22.02.24                | 23.02.24                | 24.02.24                |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 36.54                    | 43.62                   | 42.31                   | 45.27                   | 39.56                   | 41.42                   | 44.56                   | 43.72                   |
| 02      | Particulate Matter (PM <sub>10</sub> ) (µg/m <sup>3</sup> )  | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 70.21                    | 76.13                   | 78.45                   | 80.52                   | 69.17                   | 73.85                   | 75.17                   | 77.35                   |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 12.36                    | 15.08                   | 13.89                   | 16.89                   | 13.25                   | 14.59                   | 15.38                   | 16.27                   |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6, 2006, RA-2017   | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 18.57                    | 24.57                   | 19.76                   | 25.38                   | 19.74                   | 23.43                   | 23.84                   | 24.93                   |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 0.89                     | 0.10                    | 0.94                    | 0.87                    | 1.03                    | 1.10                    | 1.21                    | 1.07                    |

Tested by:

  
A. Chatterjee

Authorized Signatory

  
J.N. BERA  
(Quality Manager)

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TC-8066

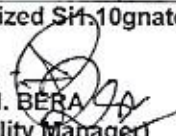
GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                                      |                                                                                                                       |                                       |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| REPORT NO. : N- 1410                 | ULR-TC806624000000349F                                                                                                | DATE 15.03.2024                       |
| Name and Address of Customer:        | M/s. M.G. MOHANTY.<br>Patabeda Iron Mines ((14.000 Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                                       |
| Work order No. and Date:             | MGM/WO/2023/24/11-164                                                                                                 | Dated:28/11/2023                      |
| Sample receiving date:               | 06.03.2024                                                                                                            |                                       |
| Sub:                                 | Environmental monitoring                                                                                              |                                       |
| Material:                            | Ambient Air                                                                                                           |                                       |
| Group:                               | Atmospheric Pollution                                                                                                 |                                       |
| Date of starting of Test: 09.03.2024 | CHEMICAL TEST RESULT                                                                                                  | Date of completion of Test 15.03.2024 |

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                         |                         |                         |                         |   |   |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|-------------------------|-------------------------|-------------------------|-------------------------|---|---|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                         |                         |                         |                         |   |   |
|         |                                                              |                                 |                                     | AAQ-1 Mines Quarry (CZ)  | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | - | - |
|         |                                                              |                                 |                                     | Sampling Collection Date |                         |                         |                         |                         |   |   |
|         |                                                              |                                 |                                     | 25.02.24                 | 26.02.24                | 27.02.24                | 28.02.24                | 29.02.24                | - | - |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 46.51                    | 40.89                   | 42.95                   | 37.24                   | 43.85                   | - | - |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 80.47                    | 72.56                   | 75.30                   | 69.83                   | 76.91                   | - | - |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 16.23                    | 13.42                   | 15.78                   | 12.57                   | 76.42                   | - | - |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6, 2006, RA-2017   | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 24.05                    | 19.64                   | 21.45                   | 19.32                   | 14.63                   | - | - |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 1.04                     | 0.98                    | 1.12                    | 1.08                    | 22.47                   | - | - |

Tested by:  
**FOR. Mylon.**  
**A. Chatterjee**

Authorized Signatory  
  
**J.N. BERA**  
 (Quality Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                                            |                         |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| REPORT NO. : N- 1344          | ULR-TC806624000000348F                                                                                                                     | DATE -15.03.2024        |
| Name and Address of Customer: | <b>M/s. M.G. MOHANTY.</b><br><b>Patabeda Iron Mines ((14.000 Ha)</b><br><b>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha</b> |                         |
| Work order No. and Date:      | <b>MGM/WO/2023/24/11-164</b>                                                                                                               | <b>Dated:28/11/2023</b> |
| Sample receiving date:        | 21.02.2024                                                                                                                                 |                         |
| Sub:                          | Environmental monitoring                                                                                                                   |                         |
| Material:                     | Ambient Air                                                                                                                                |                         |
| Group:                        | Atmospheric Pollution                                                                                                                      |                         |

Date of starting of Test: 23.02.2024

CHEMICAL TEST RESULT

Date of completion of Test 01.03.2024

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result                  |                              |                              |                              |                              |                              |                              |                              |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS             |                              |                              |                              |                              |                              |                              |                              |
|         |                                                              |                                 |                                     | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) |
|         |                                                              |                                 |                                     | 01.02.24                     | 02.02.24                     | 03.02.24                     | 04.02.24                     | 05.01.24                     | 06.02.24                     | 07.02.24                     | 08.02.24                     |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 42.51                        | 46.89                        | 40.37                        | 39.72                        | 43.24                        | 45.67                        | 47.59                        | 41.72                        |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 75.60                        | 80.45                        | 70.53                        | 69.36                        | 74.15                        | 76.26                        | 79.35                        | 70.31                        |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 14.27                        | 16.24                        | 12.45                        | 11.88                        | 13.92                        | 15.38                        | 18.46                        | 15.28                        |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART- 6,2006, RA-2017   | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 20.33                        | 23.06                        | 19.64                        | 18.59                        | 20.73                        | 21.81                        | 24.84                        | 21.43                        |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 1.14                         | 1.06                         | 1.20                         | 1.08                         | 1.21                         | 1.13                         | 1.09                         | 1.13                         |

Tested by:

A. Chatterjee

Authorized Signatory

J.N BERA  
(Quality Manager)

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GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                       |                   |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------|
| REPORT NO. : N- 1344          | ULR-TC806624000000348F                                                                                                | DATE - 15.03.2024 |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br>Patabeda Iron Mines ((14.000 Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                   |
| Work order No. and Date:      | MGM/WO/2023/24/11-164                                                                                                 | Dated:28/11/2023  |
| Sample receiving date:        | 21.02.2024                                                                                                            |                   |
| Sub:                          | Environmental monitoring                                                                                              |                   |
| Material:                     | Ambient Air                                                                                                           |                   |
| Group:                        | Atmospheric Pollution                                                                                                 |                   |

Date of starting of Test: 23.02.2024

CHEMICAL TEST RESULT

Date of completion of Test 01.03.2024

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result                  |                              |                              |                              |                              |                              |                              |                              |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS             |                              |                              |                              |                              |                              |                              |                              |
|         |                                                              |                                 |                                     | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date     |                              |                              |                              |                              |                              |                              |                              |
|         |                                                              |                                 |                                     | 09.02.24                     | 10.02.24                     | 11.02.24                     | 12.02.24                     | 13.02.24                     | 14.02.24                     | 15.02.24                     | 16.02.24                     |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 43.57                        | 42.61                        | 43.51                        | 40.74                        | 38.57                        | 45.31                        | 41.65                        | 43.51                        |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 74.61                        | 75.07                        | 76.40                        | 70.59                        | 67.04                        | 78.18                        | 72.24                        | 76.48                        |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 14.86                        | 16.43                        | 12.36                        | 13.98                        | 11.42                        | 14.20                        | 14.62                        | 14.27                        |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART- 6,2006, RA-2017   | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 20.74                        | 22.82                        | 19.85                        | 20.23                        | 18.63                        | 20.56                        | 21.99                        | 21.63                        |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 1.07                         | 0.99                         | 1.06                         | 1.12                         | 1.07                         | 1.14                         | 1.03                         | 0.98                         |

Tested by:

A. Chatterjee

Authorized Signatory

J.N BERA  
(Quality Manager)

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GSTIN : 19AAECS3740C2ZJ

## TEST REPORT



|                                       |                                                                                                                       |                   |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------|
| REPORT NO. : N- 1410                  | ULR-TC806624000000349F                                                                                                | DATE - 15.03.2024 |
| Name and Address of Customer:         | M/s. M.G. MOHANTY.<br>Patabeda Iron Mines ((14.000 Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                   |
| Work order No. and Date:              | MGM/WO/2023/24/11-164                                                                                                 | Dated:28/11/2023  |
| Sample receiving date:                | 06.03.2024                                                                                                            |                   |
| Sub:                                  | Environmental monitoring                                                                                              |                   |
| Material:                             | Ambient Air                                                                                                           |                   |
| Group:                                | Atmospheric Pollution                                                                                                 |                   |
| Date of starting of Test: 09.03.2024  |                                                                                                                       |                   |
| CHEMICAL TEST RESULT                  |                                                                                                                       |                   |
| Date of completion of Test 15.03.2024 |                                                                                                                       |                   |

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result                  |                              |                              |                              |                              |                              |                              |                              |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS             |                              |                              |                              |                              |                              |                              |                              |
|         |                                                              |                                 |                                     | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date     |                              |                              |                              |                              |                              |                              |                              |
|         |                                                              |                                 |                                     | 17.02.24                     | 18.02.24                     | 19.02.24                     | 20.02.24                     | 21.02.24                     | 22.02.24                     | 23.02.24                     | 24.02.24                     |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART-24                | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 40.79                        | 36.24                        | 45.37                        | 42.65                        | 41.64                        | 43.57                        | 44.82                        | 41.59                        |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 71.37                        | 68.55                        | 80.12                        | 78.46                        | 75.85                        | 78.93                        | 79.43                        | 73.47                        |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 15.83                        | 13.89                        | 16.23                        | 15.27                        | 14.78                        | 15.45                        | 16.27                        | 14.23                        |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 23.42                        | 19.76                        | 23.51                        | 22.52                        | 20.34                        | 23.71                        | 24.35                        | 20.35                        |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 0.96                         | 1.04                         | 1.12                         | 1.08                         | 0.89                         | 0.94                         | 1.02                         | 1.10                         |

Tested by:  
FOR. *[Signature]*  
A. Chatterjee

Authorized Signatory  
*[Signature]*  
J.N. BERA  
(Quality Manager)

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GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

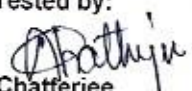
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|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| REPORT NO. : N- 1410          | ULR-TC806624000000181349F                                                                                                                  | DATE - 15.03.2024       |
| Name and Address of Customer: | <b>M/s. M.G. MOHANTY,</b><br><b>Patabeda Iron Mines ((14.000 Ha)</b><br><b>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha</b> |                         |
| Work order No. and Date:      | <b>MGM/WO/2023/24/11-164</b>                                                                                                               | <b>Dated:28/11/2023</b> |
| Sample receiving date:        | <b>06.03.2024</b>                                                                                                                          |                         |
| Sub:                          | Environmental monitoring                                                                                                                   |                         |
| Material:                     | Ambient Air                                                                                                                                |                         |
| Group:                        | Atmospheric Pollution                                                                                                                      |                         |

Date of starting of Test: **09.03.2024**

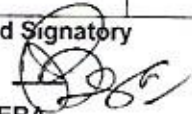
**CHEMICAL TEST RESULT**

Date of completion of Test **15.03.2024**

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result                  |                              |                              |                              |                              |  |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|--|
|         |                                                              |                                 |                                     | NAME OF STATIONS             |                              |                              |                              |                              |  |
|         |                                                              |                                 |                                     | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) |  |
|         |                                                              |                                 |                                     | 25.02.24                     | 26.02.24                     | 27.02.24                     | 28.02.24                     | 29.02.24                     |  |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 46.27                        | 40.51                        | 42.86                        | 47.15                        | 45.61                        |  |
| 02      | Particulate Matter (PM <sub>10</sub> ) (µg/m <sup>3</sup> )  | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 80.31                        | 75.43                        | 76.57                        | 82.39                        | 79.58                        |  |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 18.15                        | 16.27                        | 15.42                        | 17.83                        | 16.25                        |  |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 24.74                        | 23.15                        | 21.34                        | 24.57                        | 22.84                        |  |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 1.01                         | 0.98                         | 1.12                         | 1.06                         | 1.05                         |  |

Tested by:  
  
**A. Chatterjee**

Authorized Signatory

  
**J.N. BERA**  
 (Quality Manager)

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# SUPERINTENDENCE COMPANY OF INDIA PRIVATE LIMITED

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Website : www.superintendencecoindia.com



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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                                     |                      |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| REPORT NO. : N- 1344          | ULR-TC806624000000348F                                                                                                              | DATE - 15.03.2024    |
| Name and Address of Customer: | 82.67M/s. M.G. MOHANTY.<br>Patabed14.89a Iron ines ((14.000 Ha)<br>Patabeda, P.O. Malda, P21.24.S. Koira, Dist.: Sundergarh, Odisha |                      |
| Work order No. and Date:      | MGM/WO/2023/24/11-164                                                                                                               | Da1.08ted:28/11/2023 |
| Sample receiving date:        | 21.02.2024                                                                                                                          |                      |
| Sub:                          | Environmental monitoring                                                                                                            |                      |
| Material:                     | Ambient Air                                                                                                                         |                      |
| Group:                        | Atmospheric Pollution                                                                                                               |                      |

Date of starting of Test: 23.02.2024

CHEMICAL TEST RESULT

Date of completion of Test 01.03.2024

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                 |                 |                 |                 |                 |                 |                 |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                 |                 |                 |                 |                 |                 |                 |
|         |                                                              |                                 |                                     | AAQ-3 Dump (CZ)          | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date |                 |                 |                 |                 |                 |                 |                 |
|         |                                                              |                                 |                                     | 01.02.24                 | 02.02.24        | 03.02.24        | 04.02.24        | 05.01.24        | 06.02.24        | 07.02.24        | 08.02.24        |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 48.61                    | 52.42           | 46.28           | 47.71           | 43.21           | 45.08           | 51.24           | 49.57           |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 76.23                    | 84.65           | 79.56           | 78.38           | 74.85           | 76.87           | 82.32           | 80.43           |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 14.06                    | 16.74           | 13.40           | 15.47           | 14.34           | 13.69           | 17.95           | 16.28           |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 20.57                    | 22.93           | 19.85           | 20.52           | 19.83           | 20.43           | 23.86           | 22.39           |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 0.99                     | 1.16            | 1.04            | 0.93            | 1.08            | 1.15            | 1.04            | 1.12            |

Tested by:

A. Chatterjee

Authorized Signatory

J.N BERA  
(Quality Manager)

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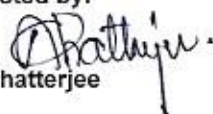
GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

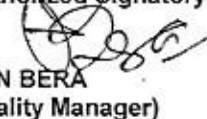
|                                      |                                                                                                                                            |                                       |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| REPORT NO. : N- 1344                 | ULR-TC806624000000348F                                                                                                                     | DATE - 15.03.2024                     |
| Name and Address of Customer:        | <b>M/s. M.G. MOHANTY.</b><br><b>Patabeda Iron Mines ((14.000 Ha)</b><br><b>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha</b> |                                       |
| Work order No. and Date:             | <b>MGM/VO/2023/24/11-164</b>                                                                                                               | <b>Dated:28/11/2023</b>               |
| Sample receiving date:               | 21.02.2024                                                                                                                                 |                                       |
| Sub:                                 | Environmental monitoring                                                                                                                   |                                       |
| Material:                            | Ambient Air                                                                                                                                |                                       |
| Group:                               | Atmospheric Pollution                                                                                                                      |                                       |
| Date of starting of Test: 23.02.2024 | <b>CHEMICAL TEST RESULT</b>                                                                                                                | Date of completion of Test 01.03.2024 |

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                 |                 |                 |                 |                 |                 |                 |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                 |                 |                 |                 |                 |                 |                 |
|         |                                                              |                                 |                                     | AAQ-3 Dump (CZ)          | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date |                 |                 |                 |                 |                 |                 |                 |
|         |                                                              |                                 |                                     | 09.02.24                 | 10.02.24        | 11.02.24        | 12.02.24        | 13.02.24        | 14.02.24        | 15.02.24        | 16.02.24        |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 47.56                    | 46.51           | 42.89           | 48.50           | 45.72           | 47.59           | 43.75           | 46.13           |
| 02      | Particulate Matter (PM <sub>10</sub> ) (µg/m <sup>3</sup> )  | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 79.45                    | 79.46           | 73.04           | 80.28           | 76.45           | 78.42           | 72.82           | 80.80           |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 15.24                    | 16.28           | 13.72           | 15.19           | 14.34           | 15.23           | 13.75           | 17.35           |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6, 2006, RA-2017   | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 20.82                    | 22.37           | 20.67           | 21.86           | 19.86           | 20.38           | 19.34           | 25.84           |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 1.03                     | 0.96            | 1.02            | 1.08            | 0.89            | 1.01            | 0.97            | 1.01            |

Tested by:

  
A. Chatterjee

Authorized Signatory

  
J.N BERA  
(Quality Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                                      |                                                                                                                       |                                       |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| REPORT NO. : N- 1410                 | ULR-TC806624000000349F                                                                                                | DATE -15.03.2024                      |
| Name and Address of Customer:        | M/s. M.G. MOHANTY.<br>Patabeda Iron Mines ((14.000 Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                                       |
| Work order No. and Date:             | MGM/WO/2023/24/11-164                                                                                                 | Dated:28/11/2023                      |
| Sample receiving date:               | 06.03.2024                                                                                                            |                                       |
| Sub:                                 | Environmental monitoring                                                                                              |                                       |
| Material:                            | Ambient Air                                                                                                           |                                       |
| Group:                               | Atmospheric Pollution                                                                                                 |                                       |
| Date of starting of Test: 09.03.2024 | CHEMICAL TEST RESULT                                                                                                  | Date of completion of Test 15.03.2024 |

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result      |                 |                 |                 |                 |                 |                 |                 |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS |                 |                 |                 |                 |                 |                 |                 |
|         |                                                              |                                 |                                     | AAQ-3 Dump (CZ)  | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) |
|         |                                                              |                                 |                                     | 17.02.24         | 18.02.24        | 19.02.24        | 20.02.24        | 21.02.24        | 22.02.24        | 23.02.24        | 24.02.24        |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 42.31            | 40.62           | 43.57           | 45.07           | 41.50           | 39.57           | 43.16           | 44.52           |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs     | 76.10            | 70.85           | 74.32           | 74.32           | 70.49           | 69.45           | 74.38           | 76.23           |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 14.20            | 13.24           | 15.19           | 15.19           | 13.81           | 12.34           | 14.73           | 15.85           |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 20.57            | 9.36            | 23.48           | 23.48           | 22.73           | 20.82           | 22.41           | 23.78           |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 0.94             | 1.02            | 0.89            | 0.89            | 1.04            | 0.87            | 0.91            | 1.03            |

Tested by:

A. Chatterjee

Authorized Signatory

J.N. BERA  
(Quality Manager)

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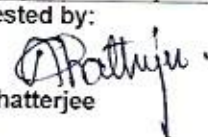


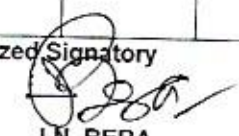
GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                                     |                                                                                                                       |                                       |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| REPORT NO. : N- 1410                | ULR-TC806624000000349F                                                                                                | DATE - 15.03.2024                     |
| Name and Address of Customer:       | M/s. M.G. MOHANTY,<br>Patabeda Iron Mines ((14.000 Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                                       |
| Work order No. and Date:            | MGM/VO/2023/24/11-164                                                                                                 | Dated:28/11/2023                      |
| Sample receiving date:              | 06.03.2024                                                                                                            |                                       |
| Sub:                                | Environmental monitoring                                                                                              |                                       |
| Material:                           | Ambient Air                                                                                                           |                                       |
| Group:                              | Atmospheric Pollution                                                                                                 |                                       |
| Date of starting of Test 09.03.2024 | CHEMICAL TEST RESULT                                                                                                  | Date of completion of Test 15.03.2024 |

| Sl. No.    | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                 |                 |                 |                 |  |  |
|------------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|-----------------|-----------------|-----------------|-----------------|--|--|
|            |                                                              |                                 |                                     | NAME OF STATIONS         |                 |                 |                 |                 |  |  |
|            |                                                              |                                 |                                     | AAQ-3 Dump (CZ)          | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) |  |  |
|            |                                                              |                                 |                                     | Sampling Collection Date |                 |                 |                 |                 |  |  |
|            |                                                              |                                 |                                     | 25.02.24                 | 26.02.24        | 27.02.24        | 28.02.24        | 29.02.24        |  |  |
| 01         | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> )<br>24 Hrs.  | 42.51                    | 40.87           | 43.12           | 38.17           | 43.26           |  |  |
| 02         | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> )<br>24 Hrs. | 74.23                    | 70.54           | 76.35           | 69.83           | 74.58           |  |  |
| 03         | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> )<br>24 Hrs.  | 16.32                    | 14.35           | 15.24           | 12.69           | 14.67           |  |  |
| 04         | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> )<br>24 Hrs.  | 22.16                    | 21.76           | 23.50           | 20.78           | 21.72           |  |  |
| 05         | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> )<br>1 Hrs.    | 1.02                     | 0.94            | 1.13            | 1.04            | 0.92            |  |  |
| Tested by: |                                                              |                                 |                                     |                          |                 |                 |                 |                 |  |  |

Tested by:  
  
 A. Chatterjee

Authorized Signatory  
  
 J.N. BERA  
 (Quality Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                                            |                         |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| REPORT NO. : N- 1344          | ULR-TC806624000000348F                                                                                                                     | DATE - 15.03.2024       |
| Name and Address of Customer: | <b>M/s. M.G. MOHANTY,</b><br><b>Patabeda Iron Mines ((14,000 Ha)</b><br><i>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha</i> |                         |
| Work order No. and Date:      | <b>MGM/VO/2023/24/11-164</b>                                                                                                               | <b>Dated:28/11/2023</b> |
| Sample receiving date:        | 21.02.2024                                                                                                                                 |                         |
| Sub:                          | Environmental monitoring                                                                                                                   |                         |
| Material:                     | Ambient Air                                                                                                                                |                         |
| Group:                        | Atmospheric Pollution                                                                                                                      |                         |

Date of starting of Test: 23.02.2024

CHEMICAL TEST RESULT

Date of completion of Test 01.03.2024

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                      |                      |                      |                      |                      |                      |                      |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                      |                      |                      |                      |                      |                      |                      |
|         |                                                              |                                 |                                     | AAQ-4 Haul Road (CZ)     | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date |                      |                      |                      |                      |                      |                      |                      |
|         |                                                              |                                 |                                     | 01.02.24                 | 02.02.24             | 03.02.24             | 04.02.24             | 05.01.24             | 06.02.24             | 07.02.24             | 08.02.24             |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 49.51                    | 52.82                | 46.27                | 50.72                | 48.93                | 53.41                | 49.83                | 54.18                |
| 02      | Particulate Matter (PM <sub>10</sub> ) (µg/m <sup>3</sup> )  | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 80.47                    | 83.79                | 76.35                | 81.35                | 79.69                | 82.60                | 80.25                | 86.09                |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 16.20                    | 18.58                | 15.04                | 17.46                | 16.78                | 19.25                | 16.50                | 18.54                |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 24.35                    | 26.41                | 20.83                | 25.58                | 22.91                | 27.34                | 24.36                | 26.83                |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 1.32                     | 1.40                 | 1.31                 | 1.50                 | 1.23                 | 1.36                 | 1.45                 | 1.24                 |

Tested by:

*A. Chatterjee*  
A. Chatterjee

Authorized Signatory

*J.N BERA*  
J.N BERA  
(Quality Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                                            |                         |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| REPORT NO. : N- 1344          | ULR-TC806624000000348F                                                                                                                     | DATE - 15.03.2024       |
| Name and Address of Customer: | <b>M/s. M.G. MOHANTY.</b><br><b>Patabeda Iron Mines ((14.000 Ha)</b><br><i>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha</i> |                         |
| Work order No. and Date:      | <b>MGM/WO/2023/24/11-164</b>                                                                                                               | <b>Dated:28/11/2023</b> |
| Sample receiving date:        | 21.02.2024                                                                                                                                 |                         |
| Sub:                          | Environmental monitoring                                                                                                                   |                         |
| Material:                     | Ambient Air                                                                                                                                |                         |
| Group:                        | Atmospheric Pollution                                                                                                                      |                         |

Date of starting of Test 23.02.2024

CHEMICAL TEST RESULT

Date of completion of Test 01.03.2024

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                      |                      |                      |                      |                      |                      |                      |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                      |                      |                      |                      |                      |                      |                      |
|         |                                                              |                                 |                                     | AAQ-4 Haul Road (CZ)     | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date |                      |                      |                      |                      |                      |                      |                      |
|         |                                                              |                                 |                                     | 09.02.24                 | 10.02.24             | 11.02.24             | 12.02.24             | 13.02.24             | 14.02.24             | 15.02.24             | 16.02.24             |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 53.71                    | 52.17                | 56.32                | 50.54                | 48.15                | 51.33                | 52.61                | 48.57                |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 80.47                    | 83.03                | 86.26                | 80.23                | 78.72                | 80.89                | 84.23                | 82.32                |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 16.20                    | 18.54                | 19.85                | 17.56                | 15.54                | 19.34                | 18.30                | 18.15                |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 24.35                    | 23.45                | 26.14                | 24.38                | 21.48                | 27.42                | 26.52                | 26.54                |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 1.32                     | 1.29                 | 1.30                 | 1.29                 | 1.40                 | 1.34                 | 1.41                 | 1.34                 |

Tested by:

A. Chatterjee

Authorized Signatory

J.N BERA  
(Quality Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                                       |                                                                                                                       |                   |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------|
| REPORT NO. : N - 1410                 | ULR-TC806624000000349F                                                                                                | DATE - 15.03.2024 |
| Name and Address of Customer:         | M/s. M.G. MOHANTY,<br>Patabeda Iron Mines ((14.000 Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                   |
| Work order No. and Date:              | MGM/VO/2023/24/11-164                                                                                                 | Dated:28/11/2023  |
| Sample receiving date:                | 06.03.2024                                                                                                            |                   |
| Sub:                                  | Environmental monitoring                                                                                              |                   |
| Material:                             | Ambient Air                                                                                                           |                   |
| Group:                                | Atmospheric Pollution                                                                                                 |                   |
| Date of starting of Test: 09.03.2024  |                                                                                                                       |                   |
| CHEMICAL TEST RESULT                  |                                                                                                                       |                   |
| Date of completion of Test 15.03.2024 |                                                                                                                       |                   |

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result          |                      |                      |                      |                      |                      |                      |                      |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS     |                      |                      |                      |                      |                      |                      |                      |
|         |                                                              |                                 |                                     | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) |
|         |                                                              |                                 |                                     | 17.02.24             | 18.02.24             | 19.02.24             | 20.02.24             | 21.02.24             | 22.02.24             | 23.02.24             | 24.02.24             |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 45.12                | 47.51                | 42.19                | 48.67                | 45.32                | 43.75                | 47.12                | 49.27                |
| 02      | Particulate Matter (PM <sub>10</sub> ) (µg/m <sup>3</sup> )  | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 78.31                | 80.56                | 75.42                | 79.84                | 76.53                | 74.29                | 82.37                | 84.35                |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 15.20                | 17.86                | 14.58                | 19.45                | 18.71                | 19.78                | 20.53                | 19.84                |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART- 6,2006, RA-2017   | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 25.48                | 24.37                | 22.36                | 30.24                | 28.67                | 29.37                | 31.48                | 28.52                |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 1.29                 | 1.32                 | 1.40                 | 1.34                 | 1.28                 | 1.33                 | 1.41                 | 1.36                 |

Tested by:

A. Chatterjee

Authorized Signatory

J.N. BERA  
(Quality Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

**TEST REPORT**

|                               |                                                                                                                      |                                       |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| REPORT NO. : N- 1410          | ULR-TC806624000000349F                                                                                               | DATE - 15.03.2024                     |
| Name and Address of Customer: | M/s. M.G. MOHANTY,<br>Patabeda Iron Mines (14.000 Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                                       |
| Work order No. and Date:      | MGM/WO/2023/24/11-164                                                                                                | Dated:28/11/2023                      |
| Sample receiving date:        | 06.03.2024                                                                                                           |                                       |
| Sub:                          | Environmental monitoring                                                                                             |                                       |
| Material:                     | Ambient Air                                                                                                          |                                       |
| Group:                        | Atmospheric Pollution                                                                                                |                                       |
| Date of starting of Test      | 09.03.2024                                                                                                           | DATE OF COMPLETION OF TEST 15.03.2024 |

**CHEMICAL TEST RESULT**

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result          |                      |                      |                      |                      |  |  |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|--|--|
|         |                                                              |                                 |                                     | NAME OF STATIONS     |                      |                      |                      |                      |  |  |
|         |                                                              |                                 |                                     | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) |  |  |
|         |                                                              |                                 |                                     | 25.02.24             | 26.02.24             | 27.02.24             | 28.02.24             | 29.02.24             |  |  |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 48.21                | 46.17                | 50.32                | 47.58                | 49.13                |  |  |
| 02      | Particulate Matter (PM <sub>10</sub> ) (µg/m <sup>3</sup> )  | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 80.50                | 79.51                | 86.23                | 80.45                | 84.39                |  |  |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 19.23                | 16.05                | 20.41                | 19.26                | 18.45                |  |  |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 27.41                | 25.74                | 29.63                | 28.64                | 26.56                |  |  |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 1.26                 | 1.31                 | 1.24                 | 1.32                 | 1.36                 |  |  |

Tested by:

A. Chatterjee

Authorized Signatory

J.N. BERA  
(Quality Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                                           |                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| REPORT NO. : N- 1344          | ULR-TC806624000000348F                                                                                                                    | DATE - 15.03.2024       |
| Name and Address of Customer: | <b>M/s. M.G. MOHANTY.</b><br><b>Patabeda Iron Mines (14.000 Ha)</b><br><i>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha</i> |                         |
| Work order No. and Date:      | <b>MGM/WO/2023/24/11-164</b>                                                                                                              | <b>Dated:28/11/2023</b> |
| Sample receiving date:        | 21.02.2024                                                                                                                                |                         |
| Sub:                          | Environmental monitoring                                                                                                                  |                         |
| Material:                     | Ambient Air                                                                                                                               |                         |
| Group:                        | Atmospheric Pollution                                                                                                                     |                         |

Date of starting of Test: 23.02.2024

CHEMICAL TEST RESULT

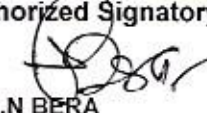
Date of completion of Test 01.03.2024

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                           |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|---------------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                           |
|         |                                                              |                                 |                                     | AAQ-5<br>Ganua Camp (BZ) | AAQ-6<br>Guruda camp (BZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date |                           |
|         |                                                              |                                 |                                     | 05.02.24                 | 12.02.2024                |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART-24                | 60 (µg/m <sup>3</sup> )<br>24 Hrs.  | 46.31                    | 44.52                     |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> )<br>24 Hrs. | 78.54                    | 72.12                     |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> )<br>24 Hrs.  | 14.65                    | 15.61                     |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> )<br>24 Hrs.  | 21.71                    | 23.47                     |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> )<br>1 Hrs.    | 1.05                     | 1.16                      |

Tested by:

  
A. Chatterjee

Authorized Signatory

  
J.N BERA  
(Quality Manager)

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GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                     |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------|
| ULR-TC806624000000350F        |                                                                                                                     |
| Report No.: N - 1411          | Date – 15.03.2024                                                                                                   |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br>Patabeda Iron Mines (14.000Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |
| Work Order No. and Date       | MGM/WO/2023/24/11-164 Dated:28/11/2023                                                                              |
| Date of Sample Received:      | 06.03.2024                                                                                                          |
| Sub:                          | Environment Monitoring                                                                                              |
| Material:                     | Fugitive Dust Emission                                                                                              |
| Group:                        | Atmospheric Pollution                                                                                               |

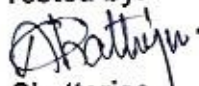
### FUGITIVE DUST EMISSION MONITORING CHEMICAL TEST

2Date of starting of test: 09.03.2024

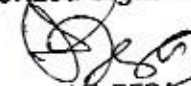
Date of completion of test: 15.03.2024

| Sl. No. | Name of Tests                           | Test Method                    | Permissible Limit as per OPCB | Test Result              |
|---------|-----------------------------------------|--------------------------------|-------------------------------|--------------------------|
|         |                                         |                                |                               | NAME OF STATIONS         |
|         |                                         |                                |                               | FD-1<br>Screening Plant  |
|         |                                         |                                |                               | Sampling Collection Date |
|         |                                         |                                |                               | 19.02.2024               |
| 01      | Particulate Matter (µg/m <sup>3</sup> ) | IS:5182, PART-4, 2006, RA-2012 | 1200 (µg/m <sup>3</sup> )     | 711.6                    |

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GSTIN : 19AAECS3740C2ZJ

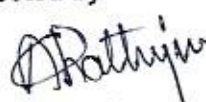
## TEST REPORT

|                               |                                                                                                                      |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------|
| REPORT NO. : N - 1345         | ULR-TC806624000000351F DATE - 15.03.2024                                                                             |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br>Patabeda Iron Mines (14.000 Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |
| Ref. no. and Date:            | MGM/WO/2023/24/11-164 Dated:28/11/2023                                                                               |
| Sample receiving date:        | 21.02.2024                                                                                                           |
| Sub:                          | Environmental monitoring                                                                                             |
| Material:                     | Noise Monitoring                                                                                                     |
| Group:                        | Atmospheric Pollution                                                                                                |

### TEST REPORT

| S. N. | Name of tests                    | Reference                  | Permissible limit as per:<br>Ambient Noise Level     |                     | Location Details (Core Zone) |                  |                  |                        |
|-------|----------------------------------|----------------------------|------------------------------------------------------|---------------------|------------------------------|------------------|------------------|------------------------|
|       |                                  |                            |                                                      |                     | 1 <sup>st</sup> Week         |                  |                  |                        |
| 1.    | Equivalent Sound level dB(A) Leq | SUP/SO P/4033S D & IS:9989 | Standard as per Noise Pollution Regulation Rule-2000 |                     | N-1<br>Mines Quarry          | N-2<br>Haul Road | N-3<br>Work Shop | N-4<br>Screening Plant |
|       |                                  |                            | Category of area Zone                                | Limits in dB(A) Leq | 02.02.2024                   | 02.02.2024       | 02.02.2024       | 02.02.2024             |
|       |                                  |                            |                                                      | 1. Industrial       | 70.2                         | 67.7             | 72.4             | 72.3                   |
|       |                                  |                            |                                                      | 2. Commercial       |                              |                  |                  |                        |
|       |                                  |                            |                                                      | 3. Residential      |                              |                  |                  |                        |
|       |                                  |                            |                                                      | 4. Silent           |                              |                  |                  |                        |

Tested by:

  
A. Chatterjee

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(Quality Manager)

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GSTIN : 19AAECS3740C2ZJ

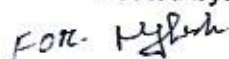
## TEST REPORT

|                               |                                                                                                                       |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------|
|                               | ULR-TC806624000000351F                                                                                                |
| REPORT NO. : N - 1345         | DATE - 07.03.2024                                                                                                     |
| Name and Address of Customer: | M/s. M.G. MOHANTY,<br>Patabeda Iron Mines ((14.000 Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |
| Ref. no. and Date:            | MGM/WO/2023/24/11-164 Dated:28/11/2023                                                                                |
| Sample receiving date:        | 21.02.2024                                                                                                            |
| Sub:                          | Environmental monitoring                                                                                              |
| Material:                     | Noise Monitoring                                                                                                      |
| Group:                        | Atmospheric Pollution                                                                                                 |

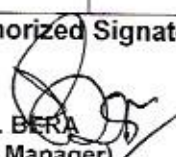
### TEST REPORT

| S. N. | Name of tests                              | Reference                           | Permissible limit as per:<br>Ambient Noise Level            |                           | Location Details (core zone) |                  |                  |                           |
|-------|--------------------------------------------|-------------------------------------|-------------------------------------------------------------|---------------------------|------------------------------|------------------|------------------|---------------------------|
| 1.    | Equivalence<br>Sound level<br>dB(A)<br>Leq | SUP/SO<br>P/4033S<br>D &<br>IS:9989 | Standard as per Noise<br>Pollution Regulation Rule-<br>2000 |                           | 2 <sup>nd</sup> Week         |                  |                  |                           |
|       |                                            |                                     | Category of<br>area Zone                                    | Limits in<br>dB(A)<br>Leq | N-1<br>Mines Quarry          | N-2<br>Haul Road | N-3<br>Work Shop | N-4<br>Screening<br>Plant |
|       |                                            |                                     |                                                             |                           | 09.02.2024                   | 09.02.2024       | 09.02.2024       | 09.02.2024                |
|       |                                            |                                     |                                                             |                           | 69.2                         | 68.3             | 71.6             | 70.5                      |
|       |                                            |                                     |                                                             |                           |                              |                  |                  |                           |
|       |                                            |                                     |                                                             |                           |                              |                  |                  |                           |
|       |                                            |                                     | 1. Industrial                                               | 75                        |                              |                  |                  |                           |
|       |                                            |                                     | 2. Commercial                                               | 65                        |                              |                  |                  |                           |
|       |                                            |                                     | 3. Residential                                              | 55                        |                              |                  |                  |                           |
|       |                                            |                                     | 4. Silent                                                   | 50                        |                              |                  |                  |                           |

Tested by:

For.   
A. Chatterjee

Authorized Signatory

  
J.N. BERA  
(Quality Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                       |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| ULR-TC806624000000352F        |                                                                                                                       |
| REPORT NO. : N - 1412         | DATE - 15.03.2024                                                                                                     |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br>Patabeda Iron Mines ((14.000 Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |
| Ref. no. and Date:            | MGM/WO/2023/24/11-164 Dated:28/11/2023                                                                                |
| Sample receiving date:        | 06.03.2024                                                                                                            |
| Sub:                          | Environmental monitoring                                                                                              |
| Material:                     | Noise Monitoring                                                                                                      |
| Group:                        | Atmospheric Pollution                                                                                                 |

### TEST REPORT

| S. N. | Name of tests                    | Reference                  | Permissible limit as per: Ambient Noise Level        |                     | Location Details (core zone) |               |               |                     |
|-------|----------------------------------|----------------------------|------------------------------------------------------|---------------------|------------------------------|---------------|---------------|---------------------|
| 1.    | Equivalent Sound level dB(A) Leq | SUP/SO P/4033S D & IS:9989 | Standard as per Noise Pollution Regulation Rule-2000 |                     | 3rd Week                     |               |               |                     |
|       |                                  |                            | Category of area Zone                                | Limits in dB(A) Leq | N-1 Mines Quarry             | N-2 Haul Road | N-3 Work Shop | N-4 Screening Plant |
|       |                                  |                            |                                                      |                     | 16.02.2023                   | 16.02.2023    | 16.02.2023    | 16.02.2023          |
|       |                                  |                            |                                                      |                     | 70.2                         | 68.3          | 72.4          | 72.6                |
|       |                                  |                            |                                                      |                     |                              |               |               |                     |
|       |                                  |                            |                                                      |                     |                              |               |               |                     |
|       |                                  |                            | 1. Industrial                                        | 75                  |                              |               |               |                     |
|       |                                  |                            | 2. Commercial                                        | 65                  |                              |               |               |                     |
|       |                                  |                            | 3. Residential                                       | 55                  |                              |               |               |                     |
|       |                                  |                            | 4. Silent                                            | 50                  |                              |               |               |                     |

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# SUPERINTENDENCE COMPANY OF INDIA PRIVATE LIMITED

LABORATORY :

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Website : www.superintendencecoindia.com



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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

ULR-TC806624000000352F

|                               |                                                                                                                       |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| REPORT NO. : N - 1412         | DATE -15.02.2024                                                                                                      |
| Name and Address of Customer: | M/s. M.G. MOHANTY,<br>Patabeda Iron Mines ((14.000 Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |
| Ref. no. and Date:            | MGM/WO/2023/24/11-164 Dated:28/11/2023                                                                                |
| Sample receiving date:        | 02.02.2024                                                                                                            |
| Sub:                          | Environmental monitoring                                                                                              |
| Material:                     | Noise Monitoring                                                                                                      |
| Group:                        | Atmospheric Pollution                                                                                                 |

### TEST REPORT

| S. N. | Name of tests                    | Reference                  | Permissible limit as per:<br>Ambient Noise Level     |                     | Location Details (Core Zone) |               |               |                     |
|-------|----------------------------------|----------------------------|------------------------------------------------------|---------------------|------------------------------|---------------|---------------|---------------------|
| 1.    | Equivalent Sound level dB(A) Leq | SUP/SO P/4033S D & IS:9989 | Standard as per Noise Pollution Regulation Rule-2000 |                     | 4 <sup>th</sup> Week         |               |               |                     |
|       |                                  |                            | Category of area Zone                                | Limits in dB(A) Leq | N-1 Mines Quarry             | N-2 Haul Road | N-3 Work Shop | N-4 Screening Plant |
|       |                                  |                            |                                                      |                     | 24.02.2024                   | 24.02.2024    | 24.02.2024    | 24.02.2024          |
|       |                                  |                            |                                                      |                     | 71.4                         | 66.5          | 71.0          | 70.2                |
|       |                                  |                            |                                                      |                     |                              |               |               |                     |
|       |                                  |                            |                                                      |                     |                              |               |               |                     |
|       |                                  |                            |                                                      |                     |                              |               |               |                     |
|       |                                  |                            | 1. Industrial                                        | 75                  |                              |               |               |                     |
|       |                                  |                            | 2. Commercial                                        | 65                  |                              |               |               |                     |
|       |                                  |                            | 3. Residential                                       | 55                  |                              |               |               |                     |
|       |                                  |                            | 4. Silent                                            | 50                  |                              |               |               |                     |

Tested by:

A. Chatterjee

Authorized Signatory

J.N. BERA  
(Quality Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                      |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------|
| ULR-TC806624000000352F        |                                                                                                                      |
| REPORT NO. : N- 1412          | DATE: 15.03.2024                                                                                                     |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br>Patabeda Iron Mines (14.000 Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |
| Ref. no. and Date:            | MGM/WO/2023/24/11-164 Dated:28/11/2023                                                                               |
| Sample receiving date:        | 06.03..2024                                                                                                          |
| Sub:                          | Environmental monitoring                                                                                             |
| Material:                     | Noise Monitoring                                                                                                     |
| Group:                        | Atmospheric Pollution                                                                                                |

### TEST REPORT

| S.N. | Name of tests                          | Reference                       | Permissible limit as per:<br>Ambient Noise Level            |                        | Location Details (Buffer zone)   |                                   |
|------|----------------------------------------|---------------------------------|-------------------------------------------------------------|------------------------|----------------------------------|-----------------------------------|
|      |                                        |                                 | Standard as per Noise<br>Pollution Regulation Rule-<br>2000 |                        | N- 5<br>Ganua camp<br>08.02.2024 | N- 6<br>Garuda camp<br>22.02.2024 |
| 1.   | Equivalent<br>Sound level<br>dB(A) Leq | SUP/SOP/4<br>033SD &<br>IS:9989 | Category of<br>area Zone                                    | Limits in<br>dB(A) Leq | Quarterly Report                 |                                   |
|      |                                        |                                 | 1. Industrial                                               | 75                     | 42.6                             | 41.3                              |
|      |                                        |                                 | 2. Commercial                                               | 65                     |                                  |                                   |
|      |                                        |                                 | 3. Residential                                              | 55                     |                                  |                                   |
|      |                                        |                                 | 4. Silent                                                   | 50                     |                                  |                                   |

Tested by:

FOR: *[Signature]*

A. Chatterjee

Authorized Signatory

*[Signature]*

J.N. BERA  
(Quality Manager)

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TC-8066

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 Website : www.superintendencecoindia.com

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                  |                  |
|-------------------------------|------------------------------------------------------------------------------------------------------------------|------------------|
| Report No N - 1346            | ULR-TC806624000000353F                                                                                           | DATE -15.03.2024 |
| Name and Address of Customer: | M/s. M.G. MOHANTY, Patabeda Iron Mines (14.000Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                  |
| Work-order no. and Date:      | MGM/WO/2023/24/11-164                                                                                            | Dated:28/11/2023 |
| Sample receiving date:        | 21.02.2024                                                                                                       |                  |
| Sub:                          | Water monitoring                                                                                                 |                  |
| Material:                     | Surface Water                                                                                                    |                  |
| Group:                        | Water                                                                                                            |                  |

## CHEMICAL REPORT

Date of starting of Test 21.02.2024

Date of completion of Test: 11.03.2024

| Sl. No. | Specific Test Performed                  | Test Method                          | Test Result                             |                                           |
|---------|------------------------------------------|--------------------------------------|-----------------------------------------|-------------------------------------------|
|         |                                          |                                      | SW1<br>Up-Stream<br>(Kakarpani Nallaha) | SW2<br>Down-Stream<br>(Kakarpani Nallaha) |
|         |                                          |                                      | Date of Collection<br>14.02.2024        | Date of collection<br>14.02.2024          |
| 1       | pH at 25°C                               | IS :3025,P-11, R.A 2009              | 8.29                                    | 7.54                                      |
| 2       | Turbidity(NTU)                           | IS 3025 (P-10), RA2006               | 1.9                                     | 5.2                                       |
| 3       | Alkalinity as CaCO <sub>3</sub> mg/l     | IS 3025 (P-23), RA2014               | 40                                      | 40                                        |
| 4       | Chloride as Cl mg/l                      | IS 3025 (P-32), RA2009               | 4                                       | 4                                         |
| 5       | Total Hardness as CaCO <sub>3</sub> mg/l | IS 3025 (P-21), RA2006               | 32                                      | 34                                        |
| 6       | Calcium as Ca mg/l                       | APHA 23rd EDN 3500Ca B               | 32                                      | 36                                        |
| 7       | Magnesium as Mg mg/l                     | APHA 23rd EDN 3500 Mg B              | 4.66                                    | 2.91                                      |
| 8       | Sulphate as SO <sub>4</sub> mg/l         | APHA 23rd EDN 4500 SO <sub>4</sub> E | <1.0                                    | 3.0                                       |
| 9       | Nitrate as NO <sub>3</sub> mg/l          | APHA 23rd EDN 4500 NO <sub>3</sub> B | 2.7                                     | 3.2                                       |
| 10      | Fluoride as F mg/l                       | APHA 23rd EDN 4500 F D               | <0.1                                    | <0.1                                      |
| 11      | Total dissolve Solids mg/l               | IS 3025 (P-16), RA2012               | 34                                      | 38                                        |
| 12      | Total Suspended Solids mg/l              | APHA 23rd EDN 2540 D                 | 4                                       | 8                                         |
| 13      | D.O.                                     | APHA 23rd EDN 4500 O-C               | 3.8                                     | 3.6                                       |
| 14      | Iron as Fe mg/l                          | APHA 23rd EDN 3111 B                 | 0.292                                   | 0.311                                     |
| 15      | Copper as Cu mg/l                        | APHA 23rd EDN 3111 B & C             | <0.05                                   | <0.05                                     |
| 16      | Zinc as Zn mg/l                          | APHA 23rd EDN 3111 B & C             | <0.01                                   | <0.01                                     |
| 17      | Lead as Pb mg/l                          | APHA 23rd EDN 3120 B                 | <0.01                                   | <0.01                                     |
| 18      | Cadmium as Cd mg/l                       | APHA 23rd EDN 3111 B & C             | <0.01                                   | <0.01                                     |
| 19      | Arsenic as As mg/l                       | APHA 23rd EDN 3120 B                 | <0.01                                   | <0.01                                     |
| 20      | Mercury as Hg mg/l                       | IS 3025 (P-48)MURCURY ANALYSER       | <0.01                                   | <0.01                                     |
| 21      | Chromium as Cr +6mg/l                    | APHA 23rd EDN 3500 B                 | <0.05                                   | <0.05                                     |
| 22      | Phenolic compound mg/l                   | APHA 23rd EDN 5530 D                 | <0.002                                  | <0.002                                    |

Tested by:

A. CHATTERJEE

Authorized Signatory

J.N. BERA  
(Quality Manager)

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GSTIN : 19AAECS3740C2ZJ



TC-8066

## TEST REPORT

|                               |                                                                                                                            |                   |  |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------|-------------------|--|
| Report No. N- 1346            |                                                                                                                            | DATE - 15.03.2024 |  |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br>Patabeda Iron Mines <u>(14.000Ha)</u><br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                   |  |
| Work-order no. and Date:      | MGM/VO/2023/24/11-164                                                                                                      | Dated:28/11/2023  |  |
| Sample receiving date:        | 21.02.2024                                                                                                                 |                   |  |
| Sub:                          | Water monitoring                                                                                                           |                   |  |
| Material:                     | Surface Water                                                                                                              |                   |  |
| Group:                        | Water                                                                                                                      |                   |  |

Date of starting of Test 21.02.2024

### CHEMICAL REPORT

Date of completion of test : 11.03.2024

| Sl. No. | Specific Test Performed     | Test Method                                      | Test Result                             |                                           |
|---------|-----------------------------|--------------------------------------------------|-----------------------------------------|-------------------------------------------|
|         |                             |                                                  | SW1<br>Up-Stream<br>(Kakarpani Nallaha) | SW2<br>Down-Stream<br>(Kakarpani Nallaha) |
|         |                             |                                                  | Date of Collection<br>14.02.2024        | Date of Collection<br>14.02.2024          |
| 23      | Temperature                 | APHA 23 <sup>rd</sup> EDN 2550 B                 | 20°C                                    | 21°C                                      |
| 24      | Residual Free Chlorine mg/l | IS 3025 (P-26), RA2009                           | <1.0                                    | <1.0                                      |
| 25      | COD mg/l                    | APHA 23 <sup>rd</sup> EDN 5220 B                 | 18                                      | 20                                        |
| 26      | Oil and Grease mg/l         | IS 3025 (P-39), RA2009                           | 1.6                                     | 1.8                                       |
| 27      | Aluminium as Al mg/l        | APHA 23 <sup>rd</sup> EDN 3500 Al-B              | <0.2                                    | <0.2                                      |
| 28      | Boron as B mg/l             | APHA 23 <sup>rd</sup> EDN 4500 B-B               | <1.0                                    | <1.0                                      |
| 29      | Manganese as Mn mg/l        | APHA 23 <sup>rd</sup> EDN 3111 B                 | <0.03                                   | <0.03                                     |
| 30      | Nickel as Ni mg/l           | APHA 23 <sup>rd</sup> EDN 3111 B & C             | <0.02                                   | <0.02                                     |
| 31      | Cyanide as CN mg/l          | APHA 23 <sup>rd</sup> EDN 4500 E                 | <0.05                                   | <0.05                                     |
| 32      | Sulphide as S mg/l          | APHA 23 <sup>rd</sup> EDN 4500 S <sup>2</sup> -F | N.T                                     | N.T                                       |
| 33      | Free Ammonia as N mg/l      | IS 3025 (P-34)                                   | N.T                                     | N.T                                       |
| 34      | Kjeldahl Nitrogen as N mg/l | IS 3025 (P-34)                                   | 8                                       | 10                                        |
| 35      | Ammonia as N mg/l           | IS 3025 (P-34)                                   | <0.02                                   | <0.02                                     |

Tested by:

A. CHATTERJEE

Authorized Signatory

J.N. BERA  
(Quality Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                            |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| ULR-TC806624000000354F        |                                                                                                                            |
| Report No. N- 1347            | Date 15.03.2024                                                                                                            |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br>Patabeda Iron Mines <b>(14.000Ha)</b><br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |
| Work-order no. and Date:      | MGM/WO/2023/24/11-164 Dated:28/11/2023                                                                                     |
| Sample receiving date:        | 21.02.2024                                                                                                                 |
| Sub:                          | EFFLUENT WATER REPORT (ETP, STP OUTLET)                                                                                    |
| Material:                     | Effluent Water                                                                                                             |
| Group:                        | Pollution and environment                                                                                                  |

### CHEMICAL REPORT

Date of starting of Test 21.02.2024

Date of completion of Test: 11.03.2024

| Sl. No. | Name of Parameter                               | Test Methods                | CPCB Prescribed Limit for Inland Surface water (Max) |         | Results              |                      |
|---------|-------------------------------------------------|-----------------------------|------------------------------------------------------|---------|----------------------|----------------------|
|         |                                                 |                             | ETP                                                  | STP     | ETP -14 Outlet Water | STP- 14 Outlet Water |
|         |                                                 |                             |                                                      |         | Date of Collection   | Date of Collection   |
|         |                                                 |                             |                                                      |         | 14.02.2024           | 14.02.2024           |
| 1       | pH                                              | IS 3025(P-11) R.A.2009      | 5.5-9.0                                              | 5.5-9.0 | 6.62 at 25°C         | 7.47 at 25°C         |
| 2       | Total Dissolve Solids mg/l                      | IS 3025(P-16) R.A.2006      | N/S                                                  | 2100    | 32                   | 187                  |
| 3       | Total suspended solids mg/l                     | IS 3025(P-17) 1984 R.A.2012 | 100                                                  | 200     | 1.0                  | 4.0                  |
| 4       | Chemical Oxygen Demand mg/l                     | APHA 23rd EDN 5220 B        | 250                                                  | N/S     | 8                    | 940                  |
| 5       | Bio Chemical Oxygen Demand 3 days at 27° C mg/l | IS 3025(P-44),1993 R.A 1999 | 30                                                   | 30      | <3.0                 | <3.0                 |
| 6       | Oil and Grease mg/l                             | IS 3025(P-39), R.A.2009     | 10                                                   | N/S     | 1.6                  | N/R                  |
| 7       | Iron as Fe mg/l                                 | APHA 23rd EDN 3111 B        | 3.0                                                  | 3.0     | 0.926                | 0.432                |
| 8       | Manganese as Mn mg/l                            | APHA 23rd EDN 3111 B        | 2.0                                                  | 2.0     | <0.03                | <0.03                |
| 9       | Chloride as cl mg/l                             | IS 3025, P-32               | N/S                                                  | N/S     | N/R                  | 20                   |

Tested by:

A. CHATTERJEE

Authorized Signatory

J.N. BERA  
(Quality Manager)

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# SUPERINTENDENCE COMPANY OF INDIA PRIVATE LIMITED

## LABORATORY :

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GSTIN : 19AAECS3740C2ZJ



[An ISO 9001 : 2015 Certified]

## TEST REPORT

|                               |                                                                                                                            |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Report No. N- 1347            | Date 15.03.2024                                                                                                            |
| Name and Address of Customer: | M/s. M.G. MOHANTY,<br>Patabeda Iron Mines <b>(14.000Ha)</b><br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |
| Work-order no. and Date:      | MGM/WO/2023/24/11-164 Dated:28/11/2023                                                                                     |
| Sample receiving date:        | 21.02.2024                                                                                                                 |
| Sub:                          | EFFLUENT WATER MONITORING REPORT (STP OUTLET)                                                                              |
| Material:                     | Effluent Water Monitoring                                                                                                  |
| Group:                        | Pollution and environment                                                                                                  |

### TEST RESULT OF BACTERIOLOGICAL

| Date of starting of Test: 21.02.2024 |                          |                      | Date of completion of Test     | 06.03.2024                               |
|--------------------------------------|--------------------------|----------------------|--------------------------------|------------------------------------------|
| Sl. No.                              | Specific Test Performed  | Test Method          | Permissible Limits as per OPCB | Test Result                              |
|                                      |                          |                      |                                | STP 14 Out-let Water<br>DATE- 14.02.2024 |
| 1                                    | Fecal Coliform (MPN/100) | As per IS: 1622-1981 | <1000                          | 950cfu/100ml                             |

Tested by:

Authorised Signatory

For

R. Dasgupta

H. Ray

J.N. BERA  
(Quality Manager)

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**SUPERINTENDENCE CO. OF INDIA (P) LTD.**

**ENVIRONMENTAL BASELINE DATA GENERATION  
AT**

**M/S – M.G.MOHANTY  
PROJECT: Patabeda Iron Mines (14.000 Ha)**

**Work Order no.: MGM/WO/2023/24/11-164**

**Dated: 28/11/2023**

**REPORT  
REPORT FOR THE MONTH OF JANUARY 2024**

\*\*\*\*\*

**Branch Office :** AT/P.O : NALDA , DIST : KEONJHAR, ODISHA – 758 042  
TEL #: 06767 – 212562, 211456,  
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E-mail: supindnalda@rediffmail.com

**Regional Office:** Plot No.: Y23, Block EP, Sector V, Salt Lake City-7000 91  
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Fax: 033- 2357-4806  
E-mail: supindkolkata@vsnl.net / supind50yahoo.co.in  
Website: www.superintendence.co

**Regd. Office:** “Everest House”, 7<sup>th</sup> floor, 46C, Chowringhee Road,  
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Website: www.superintendence.co



# SUPERINTENDENCE COMPANY OF INDIA PRIVATE LIMITED

(An ISO 9001 : 2015 Certified)

Regional office : Plot No. Y-23, Block EP, Sector-V, Salt Lake City, Kolkata-700 091, Phone : (033) 2357-4671/4681/4873/5039/5042

Fax : (033) 2357-4806, E-mail : supind2019@gmail.com, supind50@yahoo.co.in, Website : www.superintendencecoindia.com

Ref.: SUENV/ M.G. MOHANTY(14.000 Ha) /SP/KB /332

Date: 08.02.2024

To  
**The Mines Manager,**  
M/s. M.G. Mohanty.  
Patabeda Iron Mines (14.000 Ha)  
Patabeda, P.O. Malda, P.S. Koira,  
Dist.: Sundergarh, Odisha

Sub: Submission of Test Report for the Month of **JANUARY 2023**

Work Order no & Dated.: **MGM/WO/2023/24/11-164**

**Dated:28/11/2023**

Dear Sir,

We are submitting herewith test reports for the month of **JANUARY 2023** as follows:

- a. Ambient Air Monitoring (5 Parameters).
- b. Fugitive Dust
- c. Noise Monitoring
- d. Surface Water Quality
- e. ETP & STP Out Let Treated Water

Thanking you,

With Regards,

**Superintendence Co. of India (P) Ltd.**

**S. Paul**  
**(ADDL DIRECTOR)**  
Encl: as above





TC-8066

## TEST REPORT

|                               |                                                                                                                                            |                         |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| REPORT NO. : N- 1176          | ULR-TC806624000000160F                                                                                                                     | DATE - 07.02.2024       |
| Name and Address of Customer: | <b>M/s. M.G. MOHANTY.</b><br><b>Patabeda Iron Mines ((14.000 Ha)</b><br><b>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha</b> |                         |
| Work order No. and Date:      | <b>MGM/WO/2023/24/11-164</b>                                                                                                               | <b>Dated:28/11/2023</b> |
| Sample receiving date:        | 16.01.2024                                                                                                                                 |                         |
| Sub:                          | Environmental monitoring                                                                                                                   |                         |
| Material:                     | Ambient Air                                                                                                                                |                         |
| Group:                        | Atmospheric Pollution                                                                                                                      |                         |

Date of starting of Test: 16.01.2024

CHEMICAL TEST RESULT

Date of completion of Test 20.01.2024

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                         |                         |                         |                         |                         |                         |                         |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                         |                         |                         |                         |                         |                         |                         |
|         |                                                              |                                 |                                     | AAQ-1 Mines Quarry (CZ)  | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date |                         |                         |                         |                         |                         |                         |                         |
|         |                                                              |                                 |                                     | 01.01.24                 | 02.01.24                | 03.01.24                | 04.01.24                | 05.01.24                | 06.01.24                | 07.01.24                | 08.01.24                |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 48..25                   | 42.81                   | 46.52                   | 49.37                   | 40.56                   | 45.68                   | 47.81                   | 50.49                   |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 80.32                    | 74.63                   | 76.43                   | 78.62                   | 70.84                   | 74.85                   | 78.46                   | 79.52                   |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 14.56                    | 16.75                   | 13.24                   | 15.73                   | 13.45                   | 15.79                   | 14.27                   | 18.45                   |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 19.82                    | 20.34                   | 17.56                   | 18.21                   | 20.53                   | 22.52                   | 19.35                   | 26.34                   |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 0.96                     | 1.02                    | 0.95                    | 0.89                    | 0.86                    | 0.95                    | 1.04                    | 0.92                    |

Tested by:

A. Chatterjee

Authorized Signatory

P. Dutta (Technical Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                                            |                         |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| REPORT NO. : N- 1176          | ULR-TC806624000000160F                                                                                                                     | DATE - 07.02.2024       |
| Name and Address of Customer: | <b>M/s. M.G. MOHANTY,</b><br><b>Patabeda Iron Mines ((14.000 Ha)</b><br><b>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha</b> |                         |
| Work order No. and Date:      | <b>MGM/WO/2023/24/11-164</b>                                                                                                               | <b>Dated:28/11/2023</b> |
| Sample receiving date:        | 16.01.2024                                                                                                                                 |                         |
| Sub:                          | Environmental monitoring                                                                                                                   |                         |
| Material:                     | Ambient Air                                                                                                                                |                         |
| Group:                        | Atmospheric Pollution                                                                                                                      |                         |

Date of starting of Test: 16.01.2024

### CHEMICAL TEST RESULT

Date of completion of Test 20.01.2024

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                         |                         |                         |                         |                         |                         |                         |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                         |                         |                         |                         |                         |                         |                         |
|         |                                                              |                                 |                                     | AAQ-1 Mines Quarry (CZ)  | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date |                         |                         |                         |                         |                         |                         |                         |
|         |                                                              |                                 |                                     | 09.01.24                 | 10.01.24                | 11.01.24                | 12.01.24                | 13.01.24                | 14.01.24                | 15.01.24                | 16.01.24                |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 43.26                    | 46.41                   | 48.65                   | 42.53                   | 49.52                   | 47.51                   | 46.27                   | 40.39                   |
| 02      | Particulate Matter (PM <sub>10</sub> ) (µg/m <sup>3</sup> )  | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 72.82                    | 77.98                   | 79.89                   | 72.86                   | 80.65                   | 76.48                   | 78.52                   | 70.91                   |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 15.67                    | 14.26                   | 13.42                   | 12.38                   | 14.72                   | 13.56                   | 15.41                   | 12.63                   |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 23.73                    | 20.37                   | 18.24                   | 17.94                   | 19.23                   | 18.27                   | 19.37                   | 14.27                   |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 0.87                     | 0.89                    | 0.93                    | 0.94                    | 1.06                    | 0.02                    | 1.08                    | 0.91                    |

Tested by:

A. Chatterjee

Authorized Signatory

P. Dutta (Technical Manager)

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TC-8066

## TEST REPORT

|                               |                                                                                                                                            |                         |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| REPORT NO. : N- 1262          | ULR-TC806624000000181F                                                                                                                     | DATE - 08.02.2024       |
| Name and Address of Customer: | <b>M/s. M.G. MOHANTY.</b><br><b>Patabeda Iron Mines ((14.000 Ha)</b><br><b>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundargarh, Odisha</b> |                         |
| Work order No. and Date:      | <b>MGM/WO/2023/24/11-164</b>                                                                                                               | <b>Dated:28/11/2023</b> |
| Sample receiving date:        | <b>02.02.2024</b>                                                                                                                          |                         |
| Sub:                          | Environmental monitoring                                                                                                                   |                         |
| Material:                     | Ambient Air                                                                                                                                |                         |
| Group:                        | Atmospheric Pollution                                                                                                                      |                         |

Date of starting of Test: **02.02.2024** CHEMICAL TEST RESULT

Date of completion of Test **08.02.2024**

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                         |                         |                         |                         |                         |                         |                         |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                         |                         |                         |                         |                         |                         |                         |
|         |                                                              |                                 |                                     | AAQ-1 Mines Quarry (CZ)  | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date |                         |                         |                         |                         |                         |                         |                         |
|         |                                                              |                                 |                                     | 17.01.24                 | 18.01.24                | 19.01.24                | 20.01.24                | 21.01.24                | 22.01.24                | 23.01.24                | 24.01.24                |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 47.54                    | 43.57                   | 48.73                   | 42.53                   | 45.29                   | 39.45                   | 32.56                   | 10.61                   |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 80.42                    | 74.59                   | 82.37                   | 74.25                   | 76.58                   | 68.24                   | 58.42                   | 24.59                   |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 16.25                    | 14.68                   | 16.98                   | 13.64                   | 14.67                   | 11.46                   | 9.85                    | 4.26                    |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 20.76                    | 16.82                   | 21.86                   | 16.72                   | 19.83                   | 15.78                   | 13.28                   | 7.87                    |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 0.98                     | 1.04                    | 1.10                    | 1.08                    | 1.04                    | 0.93                    | 0.61                    | 0.27                    |

Tested by:

A. Chatterjee

Authorized Signatory

P. Dutta (Technical Manager)

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TC-8066

## TEST REPORT

|                               |                                                                                                                       |                   |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------|
| REPORT NO. : N- 1262          | ULR-TC806624000000181F                                                                                                | DATE - 08.02.2024 |
| Name and Address of Customer: | M/s. M.G. MOHANTY,<br>Patabeda Iron Mines ((14.000 Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                   |
| Work order No. and Date:      | MGM/WO/2023/24/11-164                                                                                                 | Dated:28/11/2023  |
| Sample receiving date:        | 02.02.2024                                                                                                            |                   |
| Sub:                          | Environmental monitoring                                                                                              |                   |
| Material:                     | Ambient Air                                                                                                           |                   |
| Group:                        | Atmospheric Pollution                                                                                                 |                   |

Date of starting of Test: 02.02.2024 CHEMICAL TEST RESULT

Date of completion of Test 08.02.2024

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                         |                         |                         |                         |                         |                         |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                         |                         |                         |                         |                         |                         |
|         |                                                              |                                 |                                     | AAQ-1 Mines Quarry (CZ)  | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date |                         |                         |                         |                         |                         |                         |
|         |                                                              |                                 |                                     | 25.01.24                 | 26. 01.24               | 27. 01.24               | 28. 01.24               | 29. 01.24               | 30. 01.24               | 31. 01.24               |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 26.54                    | 42.51                   | 46.53                   | 43.92                   | 40.26                   | 45.91                   | 42.16                   |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 53.48                    | 71.45                   | 78.79                   | 74.51                   | 69.87                   | 76.28                   | 72.38                   |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 10.27                    | 12.34                   | 15.86                   | 13.45                   | 12.73                   | 14.85                   | 15.46                   |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 14.39                    | 16.42                   | 19.57                   | 17.34                   | 17.32                   | 18.74                   | 20.57                   |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 0.79                     | 0.01                    | 1.13                    | 1.04                    | 1.18                    | 1.16                    | 1.02                    |

Tested by:

A. Chatterjee

Authorized Signatory

P. Dutta (Technical Manager)

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TC-8066

## TEST REPORT

|                                      |                                                                                                                       |                                       |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| REPORT NO. : N- 1176                 | ULR-TC806624000000160F                                                                                                | DATE -07.02.2024                      |
| Name and Address of Customer:        | M/s. M.G. MOHANTY.<br>Patabeda Iron Mines ((14.000 Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                                       |
| Work order No. and Date:             | MGM/WO/2023/24/11-164                                                                                                 | Dated:28/11/2023                      |
| Sample receiving date:               | 16.01.2024                                                                                                            |                                       |
| Sub:                                 | Environmental monitoring                                                                                              |                                       |
| Material:                            | Ambient Air                                                                                                           |                                       |
| Group:                               | Atmospheric Pollution                                                                                                 |                                       |
| Date of starting of Test: 16.01.2024 | CHEMICAL TEST RESULT                                                                                                  | Date of completion of Test 20.01.2024 |

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result                  |                              |                              |                              |                              |                              |                              |                              |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS             |                              |                              |                              |                              |                              |                              |                              |
|         |                                                              |                                 |                                     | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) |
|         |                                                              |                                 |                                     | 01.01.24                     | 02.01.24                     | 03.01.24                     | 04.01.24                     | 05.01.24                     | 06.01.24                     | 07.01.24                     | 08.01.24                     |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 50.41                        | 46.51                        | 48.17                        | 43.42                        | 45.97                        | 40.73                        | 44.18                        | 47.35                        |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 82.67                        | 80.49                        | 79.82                        | 74.88                        | 76.84                        | 70.39                        | 75.46                        | 76.41                        |
| 03      | Sulphur Di oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 14.89                        | 15.36                        | 12.93                        | 16.63                        | 14.26                        | 11.24                        | 13.27                        | 14.58                        |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART- 6,2006, RA-2017   | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 21.24                        | 20.57                        | 17.35                        | 22.79                        | 20.38                        | 16.52                        | 19.24                        | 18.32                        |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 1.08                         | 1.12                         | 0.94                         | 1.05                         | 0.96                         | 1.17                         | 1.02                         | 1.15                         |

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TC-8066

## TEST REPORT

|                               |                                                                                                                                            |                         |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| REPORT NO. : N- 1176          | ULR-TC806624000000160F                                                                                                                     | DATE - 07.02.2024       |
| Name and Address of Customer: | <b>M/s. M.G. MOHANTY.</b><br><b>Patabeda Iron Mines ((14.000 Ha)</b><br><b>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha</b> |                         |
| Work order No. and Date:      | <b>MGM/WO/2023/24/11-164</b>                                                                                                               | <b>Dated:28/11/2023</b> |
| Sample receiving date:        | 16.01.2024                                                                                                                                 |                         |
| Sub:                          | Environmental monitoring                                                                                                                   |                         |
| Material:                     | Ambient Air                                                                                                                                |                         |
| Group:                        | Atmospheric Pollution                                                                                                                      |                         |

Date of starting of Test: 16.01.2024

### CHEMICAL TEST RESULT

Date of completion of Test 20.01.2024

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result                  |                              |                              |                              |                              |                              |                              |                              |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS             |                              |                              |                              |                              |                              |                              |                              |
|         |                                                              |                                 |                                     | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) |
|         |                                                              |                                 |                                     | 09.01.24                     | 10.01.24                     | 11.01.24                     | 12.01.24                     | 13.01.24                     | 14.01.24                     | 15.01.24                     | 16.01.24                     |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 41.67                        | 46.51                        | 43.26                        | 40.15                        | 49.37                        | 47.56                        | 40.64                        | 38.56                        |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 71.43                        | 78.64                        | 73.68                        | 70.94                        | 79.23                        | 74.27                        | 69.86                        | 66.47                        |
| 03      | Sulphur Dioxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )      | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 12.35                        | 14.35                        | 12.53                        | 10.43                        | 13.64                        | 15.74                        | 11.25                        | 17.63                        |
| 04      | Nitrogen Dioxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182 PART- 6,2006, RA-2017   | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 19.89                        | 20.34                        | 16.54                        | 15.46                        | 20.95                        | 21.82                        | 16.42                        | 14.25                        |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 1.03                         | 0.94                         | 0.89                         | 1.02                         | 0.93                         | 0.96                         | 0.92                         | 1.06                         |

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TC-8066

## TEST REPORT

|                                       |                                                                                                                       |                   |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------|
| REPORT NO. : N- 1262                  | ULR-TC806624000000181F                                                                                                | DATE - 08.02.2024 |
| Name and Address of Customer:         | M/s. M.G. MOHANTY.<br>Patabeda Iron Mines ((14.000 Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                   |
| Work order No. and Date:              | MGM/WO/2023/24/11-164                                                                                                 | Dated:28/11/2023  |
| Sample receiving date:                | 02.02.2024                                                                                                            |                   |
| Sub:                                  | Environmental monitoring                                                                                              |                   |
| Material:                             | Ambient Air                                                                                                           |                   |
| Group:                                | Atmospheric Pollution                                                                                                 |                   |
| Date of starting of Test: 02.02.2024  |                                                                                                                       |                   |
| CHEMICAL TEST RESULT                  |                                                                                                                       |                   |
| Date of completion of Test 08.02.2024 |                                                                                                                       |                   |

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result                  |                              |                              |                              |                              |                              |                              |                              |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS             |                              |                              |                              |                              |                              |                              |                              |
|         |                                                              |                                 |                                     | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date     |                              |                              |                              |                              |                              |                              |                              |
|         |                                                              |                                 |                                     | 17.01.24                     | 18.01.24                     | 19.01.24                     | 20.01.24                     | 21.01.24                     | 22.01.24                     | 23.01.24                     | 24.01.24                     |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART-24                | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 43.62                        | 44.52                        | 42.31                        | 43.65                        | 45.27                        | 39.52                        | 32.41                        | 9.52                         |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 72.58                        | 74.23                        | 71.48                        | 70.64                        | 76.38                        | 64.53                        | 59.26                        | 21.45                        |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 13.47                        | 12.35                        | 12.34                        | 13.82                        | 14.54                        | 10.67                        | 9.37                         | 4.4.24                       |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 17.24                        | 15.79                        | 16.52                        | 19.46                        | 20.85                        | 15.72                        | 13.74                        | 7.36                         |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 0.87                         | 0.90                         | 1.02                         | 1.08                         | 0.95                         | 0.83                         | 0.62                         | 0.23                         |

Tested by:  
A. Chatterjee

Authorized Signatory  
P. Dutta (Technical Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                       |                   |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------|
| REPORT NO. : N- 1262          | ULR-TC806624000000181F                                                                                                | DATE - 08.02.2024 |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br>Patabeda Iron Mines ((14.000 Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                   |
| Work order No. and Date:      | MGM/WO/2023/24/11-164                                                                                                 | Dated:28/11/2023  |
| Sample receiving date:        | 02.02.2024                                                                                                            |                   |
| Sub:                          | Environmental monitoring                                                                                              |                   |
| Material:                     | Ambient Air                                                                                                           |                   |
| Group:                        | Atmospheric Pollution                                                                                                 |                   |

Date of starting of Test: 02.02.2024

CHEMICAL TEST RESULT

Date of completion of Test 08.02.2024

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result                  |                              |                              |                              |                              |                              |                              |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS             |                              |                              |                              |                              |                              |                              |
|         |                                                              |                                 |                                     | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) |
|         |                                                              |                                 |                                     | 25.01.24                     | 26.01.24                     | 27.01.24                     | 28.01.24                     | 29.01.24                     | 30.01.24                     | 31.01.24                     |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 29.87                        | 44.52                        | 40.56                        | 45.35                        | 42.37                        | 41.23                        | 43.16                        |
| 02      | Particulate Matter (PM <sub>10</sub> ) (µg/m <sup>3</sup> )  | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 47.19                        | 78.45                        | 70.67                        | 79.14                        | 74.52                        | 72.48                        | 76.34                        |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 10.23                        | 15.21                        | 12.79                        | 14.86                        | 13.64                        | 12.52                        | 14.92                        |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 15.38                        | 10.39                        | 16.22                        | 19.48                        | 18.75                        | 17.89                        | 18.45                        |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 0.63                         | 0.94                         | 1.08                         | 0.95                         | 1.02                         | 1.04                         | 0.96                         |

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TC-8066

## TEST REPORT

|                               |                                                                                                                                     |                      |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| REPORT NO. : N- 1176          | ULR-TC806624000000160F                                                                                                              | DATE -.07.02.2024    |
| Name and Address of Customer: | 82.67M/s. M.G. MOHANTY,<br>Patabed14.89a Iron ines ((14.000 Ha)<br>Patabeda, P.O. Malda, P21.24.S. Koira, Dist.: Sundergarh, Odisha |                      |
| Work order No. and Date:      | MGM/WO/2023/24/11-164                                                                                                               | Da1.08ted:28/11/2023 |
| Sample receiving date:        | 16.01.2024                                                                                                                          |                      |
| Sub:                          | Environmental monitoring                                                                                                            |                      |
| Material:                     | Ambient Air                                                                                                                         |                      |
| Group:                        | Atmospheric Pollution                                                                                                               |                      |

Date of starting of Test: 16.01.2024

CHEMICAL TEST RESULT

Date of completion of Test 20.01.2024

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                 |                 |                 |                 |                 |                 |                 |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                 |                 |                 |                 |                 |                 |                 |
|         |                                                              |                                 |                                     | AAQ-3 Dump (CZ)          | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date |                 |                 |                 |                 |                 |                 |                 |
|         |                                                              |                                 |                                     | 01.01.24                 | 02.01.24        | 03.01.24        | 04.01.24        | 05.01.24        | 06.01.24        | 07.01.24        | 08.01.24        |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 46.51                    | 42.72           | 48.47           | 45.21           | 40.76           | 49.61           | 47.68           | 41.82           |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 76.23                    | 72.39           | 79.54           | 78.53           | 70.35           | 80.73           | 75.46           | 74.56           |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 12.34                    | 10.93           | 13.82           | 14.35           | 11.94           | 15.24           | 13.27           | 12.45           |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 17.85                    | 15.18           | 19.64           | 20.81           | 18.92           | 21.49           | 19.62           | 18.24           |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 0.97                     | 0.88            | 1.06            | 0.94            | 0.92            | 0.89            | 0.93            | 1.04            |

Tested by:

A. Chatterjee

Authorized Signatory

P. Dutta (Technical Manager)

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TC-8066

## TEST REPORT

|                               |                                                                                                                                            |                         |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| REPORT NO. : N- 1176          | ULR-TC806624000000160F                                                                                                                     | DATE - 07.02.2024       |
| Name and Address of Customer: | <b>M/s. M.G. MOHANTY.</b><br><b>Patabeda Iron Mines ((14.000 Ha)</b><br><b>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha</b> |                         |
| Work order No. and Date:      | <b>MGM/WO/2023/24/11-164</b>                                                                                                               | <b>Dated:28/11/2023</b> |
| Sample receiving date:        | 16.01.2024                                                                                                                                 |                         |
| Sub:                          | Environmental monitoring                                                                                                                   |                         |
| Material:                     | Ambient Air                                                                                                                                |                         |
| Group:                        | Atmospheric Pollution                                                                                                                      |                         |

Date of starting of Test: 16.01.2024

### CHEMICAL TEST RESULT

Date of completion of Test 20.01.2024

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                 |                 |                 |                 |                 |                 |                 |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                 |                 |                 |                 |                 |                 |                 |
|         |                                                              |                                 |                                     | AAQ-3 Dump (CZ)          | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date |                 |                 |                 |                 |                 |                 |                 |
|         |                                                              |                                 |                                     | 09.01.24                 | 10.01.24        | 11.01.24        | 12.01.24        | 13.01.24        | 14.01.24        | 15.01.24        | 16.01.24        |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 45.32                    | 46.49           | 43.93           | 49.57           | 47.66           | 40.85           | 39.61           | 42.35           |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 77.98                    | 75.18           | 71.51           | 77.45           | 74.59           | 69.78           | 69.52           | 74.16           |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 13.83                    | 13.74           | 12.45           | 15.23           | 15.42           | 11.24           | 10.43           | 13.78           |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 20.67                    | 20.32           | 18.64           | 21.38           | 20.33           | 16.42           | 14.25           | 17.42           |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 0.96                     | 0.88            | 0.86            | 0.94            | 0.92            | 0.89            | 0.92            | 0.84            |

Tested by:

*A. Chatterjee*  
A. Chatterjee

Authorized Signatory

*P. Dutta*  
P. Dutta (Technical Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                                |                   |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------|
| REPORT NO. : N- 1262          | ULR-TC806624000000181F                                                                                                         | DATE - 08.02.2024 |
| Name and Address of Customer: | <p>M/s. M.G. MOHANTY,<br/>Patabeda Iron Mines ((14.000 Ha)<br/>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha</p> |                   |
| Work order No. and Date:      | MGM/WO/2023/24/11-164                                                                                                          | Dated:28/11/2023  |
| Sample receiving date:        | 02.02.2024                                                                                                                     |                   |
| Sub:                          | Environmental monitoring                                                                                                       |                   |
| Material:                     | Ambient Air                                                                                                                    |                   |
| Group:                        | Atmospheric Pollution                                                                                                          |                   |

Date of starting of Test: 02.02.2024 CHEMICAL TEST RESULT Date of completion of Test 08.02.2024

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                 |                 |                 |                 |                 |                 |                 |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                 |                 |                 |                 |                 |                 |                 |
|         |                                                              |                                 |                                     | AAQ-3 Dump (CZ)          | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date |                 |                 |                 |                 |                 |                 |                 |
|         |                                                              |                                 |                                     | 17.01.24                 | 18.01.24        | 19.01.24        | 20.01.24        | 21.01.24        | 22.01.24        | 23.01.24        | 24.01.24        |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 37.29                    | 40.76           | 32.14           | 40.37           | 43.18           | 32.34           | 26.47           | 12.61           |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 68.34                    | 71.28           | 58.32           | 70.53           | 76.89           | 61.56           | 54.35           | 23.46           |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 10.53                    | 11.52           | 10.23           | 12.49           | 14.72           | 11.92           | 9.29            | 5.28            |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 15.84                    | 16.45           | 14.58           | 10.26           | 19.45           | 16.78           | 13.47           | 9.32            |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 0.80                     | 0.73            | 0.78            | 0.95            | 0.92            | 0.74            | 0.62            | 0.26            |

Tested by:

A. Chatterjee

Authorized Signatory

P. Dutta (Technical Manager)

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TC-8066

## TEST REPORT

|                               |                                                                                                                       |                   |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------|
| REPORT NO. : N- 1262          | ULR-TC806624000000181F                                                                                                | DATE - 08.02.2024 |
| Name and Address of Customer: | M/s. M.G. MOHANTY,<br>Patabeda Iron Mines ((14.000 Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                   |
| Work order No. and Date:      | MGM/VO/2023/24/11-164                                                                                                 | Dated:28/11/2023  |
| Sample receiving date:        | 02.02.2024                                                                                                            |                   |
| Sub:                          | Environmental monitoring                                                                                              |                   |
| Material:                     | Ambient Air                                                                                                           |                   |
| Group:                        | Atmospheric Pollution                                                                                                 |                   |

Date of starting of Test 02.02.2024 CHEMICAL TEST RESULT

Date of completion of Test 08.02.2024

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                 |                 |                 |                 |                 |                 |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                 |                 |                 |                 |                 |                 |
|         |                                                              |                                 |                                     | AAQ-3 Dump (CZ)          | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date |                 |                 |                 |                 |                 |                 |
|         |                                                              |                                 |                                     | 25.01.24                 | 26. 01.24       | 27. 01.24       | 28. 01.24       | 29. 01.24       | 30. 01.24       | 31. 01.24       |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 26.84                    | 36.84           | 38.23           | 40.32           | 37.65           | 41.37           | 44.17           |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 54.19                    | 66.92           | 69.45           | 70.53           | 68.74           | 72.53           | 74.53           |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 10.73                    | 11.67           | 12.58           | 12.45           | 11.42           | 13.85           | 14.35           |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 14.28                    | 16.74           | 17.84           | 16.26           | 16.28           | 18.74           | 20.49           |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 0.84                     | 0.80            | 0.79            | 0.85            | 0.87            | 0.90            | 0.89            |

Tested by:

A. Chatterjee

Authorized Signatory

P. Dutta (Technical Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                                            |                         |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| REPORT NO. : N- 1176          | ULR-TC806624000000160F                                                                                                                     | DATE - 07.02.2024       |
| Name and Address of Customer: | <b>M/s. M.G. MOHANTY.</b><br><b>Patabeda Iron Mines ((14.000 Ha)</b><br><b>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha</b> |                         |
| Work order No. and Date:      | <b>MGM/WO/2023/24/11-164</b>                                                                                                               | <b>Dated:28/11/2023</b> |
| Sample receiving date:        | 16.01.2024                                                                                                                                 |                         |
| Sub:                          | Environmental monitoring                                                                                                                   |                         |
| Material:                     | Ambient Air                                                                                                                                |                         |
| Group:                        | Atmospheric Pollution                                                                                                                      |                         |

Date of starting of Test: 16.01.2024

CHEMICAL TEST RESULT

Date of completion of Test 20.01.2024

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                      |                      |                      |                      |                      |                      |                      |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                      |                      |                      |                      |                      |                      |                      |
|         |                                                              |                                 |                                     | AAQ-4 Haul Road (CZ)     | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date |                      |                      |                      |                      |                      |                      |                      |
|         |                                                              |                                 |                                     | 01.01.24                 | 02.01.24             | 03.01.24             | 04.01.24             | 05.01.24             | 06.01.24             | 07.01.24             | 08.01.24             |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART-24                | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 48.65                    | 52.73                | 46.54                | 49.72                | 54.37                | 50.38                | 53.46                | 47.31                |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 79.43                    | 84.39                | 80.43                | 78.58                | 86.43                | 81.57                | 85.64                | 79.46                |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 14.37                    | 16.47                | 13.26                | 15.45                | 16.24                | 15.23                | 17.82                | 13.27                |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6, 2006, RA-2017   | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 20.54                    | 22.51                | 19.67                | 20.39                | 23.82                | 20.35                | 23.75                | 18.53                |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 1.16                     | 1.23                 | 1.08                 | 1.17                 | 1.24                 | 1.02                 | 1.15                 | 1.20                 |

Tested by:

A. Chatterjee

Authorized Signatory

P. Dutta (Technical Manager)

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TC-8066

## TEST REPORT

|                               |                                                                                                                                            |                         |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| REPORT NO. : N- 1176          | ULR-TC806624000000160F                                                                                                                     | DATE - 07.02.2024       |
| Name and Address of Customer: | <b>M/s. M.G. MOHANTY.</b><br><b>Patabeda Iron Mines ((14.000 Ha)</b><br><b>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha</b> |                         |
| Work order No. and Date:      | <b>MGM/WO/2023/24/11-164</b>                                                                                                               | <b>Dated:28/11/2023</b> |
| Sample receiving date:        | 16.01.2024                                                                                                                                 |                         |
| Sub:                          | Environmental monitoring                                                                                                                   |                         |
| Material:                     | Ambient Air                                                                                                                                |                         |
| Group:                        | Atmospheric Pollution                                                                                                                      |                         |

Date of starting of Test 16.01.2024

### CHEMICAL TEST RESULT

Date of completion of Test 20.01.2024

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result          |                      |                      |                      |                      |                      |                      |                      |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS     |                      |                      |                      |                      |                      |                      |                      |
|         |                                                              |                                 |                                     | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) |
|         |                                                              |                                 |                                     | 09.01.24             | 10.01.24             | 11.01.24             | 12.01.24             | 13.01.24             | 14.01.24             | 15.01.24             | 16.01.24             |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 45.94                | 50.61                | 46.52                | 52.47                | 49.34                | 53.81                | 48.21                | 45.96                |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 76.58                | 82.43                | 77.46                | 84.38                | 79.42                | 85.78                | 81.19                | 76.48                |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 14.47                | 14.24                | 12.35                | 15.25                | 13.26                | 16.33                | 16.38                | 17.25                |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART- 6,2006, RA-2017   | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 20.63                | 20.37                | 18.62                | 18.89                | 18.67                | 21.92                | 21.57                | 22.64                |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 1.13                 | 1.16                 | 1.08                 | 1.24                 | 1.16                 | 1.09                 | 1.13                 | 1.04                 |

Tested by:

A. Chatterjee

Authorized Signatory

P. Dutta (Technical Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                                           |                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| REPORT NO. : N- 1262          | ULR-TC806624000000181F                                                                                                                    | DATE - 08.02.2024       |
| Name and Address of Customer: | <b>M/s. M.G. MOHANTY,</b><br><b>Patabeda Iron Mines (14.000 Ha)</b><br><i>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha</i> |                         |
| Work order No. and Date:      | <b>MGM/WO/2023/24/11-164</b>                                                                                                              | <b>Dated:28/11/2023</b> |
| Sample receiving date:        | <b>02.02.2024</b>                                                                                                                         |                         |
| Sub:                          | Environmental monitoring                                                                                                                  |                         |
| Material:                     | Ambient Air                                                                                                                               |                         |
| Group:                        | Atmospheric Pollution                                                                                                                     |                         |

Date of starting of Test **02.02.2024** CHEMICAL TEST RESULT Date of completion of Test **08.02.2024**

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                      |                      |                      |                      |                      |                      |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                      |                      |                      |                      |                      |                      |
|         |                                                              |                                 |                                     | AAQ-4 Haul Road (CZ)     | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date |                      |                      |                      |                      |                      |                      |
|         |                                                              |                                 |                                     | 25.01.24                 | 26. 01.24            | 27. 01.24            | 28. 01.24            | 29. 01.24            | 30. 01.24            | 31. 01.24            |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 39.54                    | 48.52                | 47.19                | 42.51                | 45.26                | 49.35                | 46.74                |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 68.46                    | 82.45                | 83.67                | 76.47                | 78.57                | 84.54                | 80.23                |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 11.67                    | 16.21                | 15.74                | 13.82                | 14.63                | 17.49                | 16.35                |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART- 6,2006, RA-2017   | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 16.73                    | 21.35                | 20.59                | 19.45                | 21.78                | 23.68                | 21.57                |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 0.74                     | 1.08                 | 1.02                 | 1.15                 | 1.24                 | 1.16                 | 1.23                 |

Tested by:

*A. Chatterjee*  
A. Chatterjee

Authorized Signatory

*P. Dutta*  
P. Dutta (Technical Manager)

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TC-8066

## TEST REPORT

|                               |                                                                                                                                           |                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| REPORT NO. : N- 1262          | ULR-TC806624000000181F                                                                                                                    | DATE - 08.02.2024       |
| Name and Address of Customer: | <b>M/s. M.G. MOHANTY.</b><br><b>Patabeda Iron Mines (14.000 Ha)</b><br><i>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha</i> |                         |
| Work order No. and Date:      | <b>MGM/WO/2023/24/11-164</b>                                                                                                              | <b>Dated:28/11/2023</b> |
| Sample receiving date:        | <b>02.02.2024</b>                                                                                                                         |                         |
| Sub:                          | Environmental monitoring                                                                                                                  |                         |
| Material:                     | Ambient Air                                                                                                                               |                         |
| Group:                        | Atmospheric Pollution                                                                                                                     |                         |

Date of starting of Test: **02.02.2024** **CHEMICAL TEST RESULT**

Date of completion of Test **08.02.2024**

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                           |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|---------------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                           |
|         |                                                              |                                 |                                     | AAQ-5<br>Ganua Camp (BZ) | AAQ-6<br>Guruda camp (BZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date |                           |
|         |                                                              |                                 |                                     | <b>08.01.24</b>          | <b>22.01.24</b>           |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART-24                | 60 (µg/m <sup>3</sup> )<br>24 Hrs.  | <b>46.12</b>             | <b>37.41</b>              |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> )<br>24 Hrs. | <b>72.96</b>             | <b>67.28</b>              |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> )<br>24 Hrs.  | <b>13.48</b>             | <b>12.57</b>              |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> )<br>24 Hrs.  | <b>20.57</b>             | <b>17.42</b>              |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> )<br>1 Hrs.    | <b>0.89</b>              | <b>0.95</b>               |

Tested by:

A. Chatterjee

Authorized Signatory

P. Dutta (Technical Manager)

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# SUPERINTENDENCE COMPANY OF INDIA PRIVATE LIMITED

LABORATORY :

PLOT NO. Y-23, BLOCK-EP, SECTOR-V, SALT LAKE CITY, KOLKATA-700 091

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Website : www.superintendencecoindia.com

GSTIN : 19AAECS3740C2ZJ



(An ISO 9001 : 2015 Certified)



TC-8066

## TEST REPORT

|                               |                                                                                                                     |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------|
| ULR-TC806624000000161F        |                                                                                                                     |
| Report No.: N - 1177          | Date – 07.02.2024                                                                                                   |
| Name and Address of Customer: | M/s. M.G. MOHANTY,<br>Patabeda Iron Mines (14.000Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |
| Work Order No. and Date       | MGM/WO/2023/24/11-164 Dated:28/11/2023                                                                              |
| Date of Sample Received:      | 16.01.2024                                                                                                          |
| Sub:                          | Environment Monitoring                                                                                              |
| Material:                     | Fugitive Dust Emission                                                                                              |
| Group:                        | Atmospheric Pollution                                                                                               |

### FUGITIVE DUST EMISSION MONITORING CHEMICAL TEST

2Date of starting of test: 18.01.2024

Date of completion of test:20.01.2024

| Sl. No. | Name of Tests                                   | Test Method                    | Permissible Limit as per OPCB     | Test Result              |
|---------|-------------------------------------------------|--------------------------------|-----------------------------------|--------------------------|
|         |                                                 |                                |                                   | NAME OF STATIONS         |
|         |                                                 |                                |                                   | FD-1<br>Screening Plant  |
|         |                                                 |                                |                                   | Sampling Collection Date |
|         |                                                 |                                |                                   | 13.01.2024               |
| 01      | Particulate Matter ( $\mu\text{g}/\text{m}^3$ ) | IS:5182, PART-4, 2006, RA-2012 | 1200 ( $\mu\text{g}/\text{m}^3$ ) | 708.6                    |

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Authorized Signatory

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                      |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------|
| ULR-TC806624000000162F        |                                                                                                                      |
| REPORT NO. : N - 1178         | DATE - 07.02.2024                                                                                                    |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br>Patabeda Iron Mines (14.000 Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |
| Ref. no. and Date:            | MGM/WO/2023/24/11-164 Dated:28/11/2023                                                                               |
| Sample receiving date:        | 16.01.2024                                                                                                           |
| Sub:                          | Environmental monitoring                                                                                             |
| Material:                     | Noise Monitoring                                                                                                     |
| Group:                        | Atmospheric Pollution                                                                                                |

## TEST REPORT

| S. N. | Name of tests                    | Reference                  | Permissible limit as per Ambient Noise Level         |                     | Location Details (Core Zone) |               |               |                     |
|-------|----------------------------------|----------------------------|------------------------------------------------------|---------------------|------------------------------|---------------|---------------|---------------------|
| 1.    | Equivalent Sound level dB(A) Leq | SUP/SO P/4033S D & IS:9989 | Standard as per Noise Pollution Regulation Rule-2000 |                     | 1 <sup>st</sup> Week         |               |               |                     |
|       |                                  |                            | Category of area Zone                                | Limits in dB(A) Leq | N-1 Mines Quarry             | N-2 Haul Road | N-3 Work Shop | N-4 Screening Plant |
|       |                                  |                            |                                                      |                     | 05.01.2024                   | 05.01.2024    | 05.01.2024    | 05.01.2024          |
|       |                                  |                            |                                                      |                     | 69.5                         | 64.2          | 70.1          | 71.2                |
|       |                                  |                            |                                                      |                     |                              |               |               |                     |
|       |                                  |                            |                                                      |                     |                              |               |               |                     |
|       |                                  |                            |                                                      |                     |                              |               |               |                     |

Tested by:

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Authorized Signatory

P. Dutta

(Technical Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                       |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| ULR-TC806624000000162F        |                                                                                                                       |
| REPORT NO. : N - 1178         | DATE - 07.02.2024                                                                                                     |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br>Patabeda Iron Mines ((14.000 Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |
| Ref. no. and Date:            | MGM/WO/2023/24/11-164 Dated:28/11/2023                                                                                |
| Sample receiving date:        | 16.01.2024                                                                                                            |
| Sub:                          | Environmental monitoring                                                                                              |
| Material:                     | Noise Monitoring                                                                                                      |
| Group:                        | Atmospheric Pollution                                                                                                 |

### TEST REPORT

| S. N. | Name of tests                    | Reference                  | Permissible limit as per:<br>Ambient Noise Level     |                     | Location Details (core zone) |                  |                  |                        |
|-------|----------------------------------|----------------------------|------------------------------------------------------|---------------------|------------------------------|------------------|------------------|------------------------|
| 1.    | Equivalent Sound level dB(A) Leq | SUP/SO P/4033S D & IS:9989 | Standard as per Noise Pollution Regulation Rule-2000 |                     | 2 <sup>nd</sup> Week         |                  |                  |                        |
|       |                                  |                            | Category of area Zone                                | Limits in dB(A) Leq | N-1<br>Mines Quarry          | N-2<br>Haul Road | N-3<br>Work Shop | N-4<br>Screening Plant |
|       |                                  |                            |                                                      |                     | 12.01.2024                   | 12.01.2024       | 12.01.2024       | 12.01.2024             |
|       |                                  |                            |                                                      |                     | 68.3                         | 69.2             | 72.1             | 70.6                   |
|       |                                  |                            |                                                      | 1. Industrial       |                              |                  |                  |                        |
|       |                                  |                            |                                                      | 2. Commercial       |                              |                  |                  |                        |
|       |                                  |                            |                                                      | 3. Residential      |                              |                  |                  |                        |
|       |                                  |                            |                                                      | 4. Silent           |                              |                  |                  |                        |

Tested by:

A. Chatterjee

Authorized Signatory

P. Dutta

(Technical Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

ULR-TC806624000000184F

REPORT NO. : N - 1263

DATE - 08.02.2024

Name and Address of  
Customer:

*M/s. M.G. MOHANTY.*  
**Patabeda Iron Mines ((14.000 Ha)**  
*Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha*

Ref. no. and Date:

**MGM/WO/2023/24/11-164**

**Dated:28/11/2023**

Sample receiving date:

02.02.2024

Sub:

Environmental monitoring

Material:

Noise Monitoring

Group:

Atmospheric Pollution

### TEST REPORT

| S. N. | Name of tests                             | Reference                           | Permissible limit as per:<br>Ambient Noise Level            |                           | Location Details (core zone) |                  |                     |                           |
|-------|-------------------------------------------|-------------------------------------|-------------------------------------------------------------|---------------------------|------------------------------|------------------|---------------------|---------------------------|
| 1.    | Equivalent<br>Sound level<br>dB(A)<br>Leq | SUP/SO<br>P/4033S<br>D &<br>IS:9989 | Standard as per Noise<br>Pollution Regulation Rule-<br>2000 |                           | 3rd Week                     |                  |                     |                           |
|       |                                           |                                     | Category of<br>area Zone                                    | Limits in<br>dB(A)<br>Leq | N-1<br>Mines Quarry          | N-2<br>Haul Road | N-3<br>Work<br>Shop | N-4<br>Screening<br>Plant |
|       |                                           |                                     |                                                             |                           | 19.01.2023                   | 19.01.2023       | 19.01.2023          | 19.01.2023                |
|       |                                           |                                     |                                                             |                           | 69.4                         | 70.0             | 71.4                | 70.4                      |
|       |                                           |                                     |                                                             | 1. Industrial             |                              |                  |                     |                           |
|       |                                           |                                     |                                                             | 2. Commercial             |                              |                  |                     |                           |
|       |                                           |                                     |                                                             | 3. Residential            |                              |                  |                     |                           |
|       |                                           |                                     |                                                             | 4. Silent                 |                              |                  |                     |                           |

Tested by:

*A. Chatterjee*  
A. Chatterjee

Authorized Signatory

*P. Dutta*  
P. Dutta

(Technical Manager)

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GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                       |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| ULR-TC806624000000184F        |                                                                                                                       |
| REPORT NO. : N - 1263         | DATE - 08.02.2024                                                                                                     |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br>Patabeda Iron Mines ((14.000 Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |
| Ref. no. and Date:            | MGM/WO/2023/24/11-164 Dated:28/11/2023                                                                                |
| Sample receiving date:        | 02.02.2024                                                                                                            |
| Sub:                          | Environmental monitoring                                                                                              |
| Material:                     | Noise Monitoring                                                                                                      |
| Group:                        | Atmospheric Pollution                                                                                                 |

## TEST REPORT

| S. N. | Name of tests                              | Reference                           | Permissible limit as per:<br>Ambient Noise Level            |                           | Location Details (Core Zone) |                  |                     |                           |
|-------|--------------------------------------------|-------------------------------------|-------------------------------------------------------------|---------------------------|------------------------------|------------------|---------------------|---------------------------|
| 1.    | Equivalence<br>Sound level<br>dB(A)<br>Leq | SUP/SO<br>P/4033S<br>D &<br>IS:9989 | Standard as per Noise<br>Pollution Regulation Rule-<br>2000 |                           | 4 <sup>th</sup> Week         |                  |                     |                           |
|       |                                            |                                     | Category of<br>area Zone                                    | Limits in<br>dB(A)<br>Leq | N-1<br>Mines Quarry          | N-2<br>Haul Road | N-3<br>Work<br>Shop | N-4<br>Screening<br>Plant |
|       |                                            |                                     |                                                             |                           | 27.01.2024                   | 27.01.2024       | 27.01.2024          | 27.01.2024                |
|       |                                            |                                     |                                                             |                           | 68.4                         | 68.3             | 70.1                | 69.3                      |
|       |                                            |                                     |                                                             |                           |                              |                  |                     |                           |
|       |                                            |                                     |                                                             |                           |                              |                  |                     |                           |
|       |                                            |                                     | 1. Industrial                                               | 75                        |                              |                  |                     |                           |
|       |                                            |                                     | 2. Commercial                                               | 65                        |                              |                  |                     |                           |
|       |                                            |                                     | 3. Residential                                              | 55                        |                              |                  |                     |                           |
|       |                                            |                                     | 4. Silent                                                   | 50                        |                              |                  |                     |                           |

Tested by:

A. Chatterjee

Authorized Signatory

P. Dutta

(Technical Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

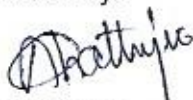
## TEST REPORT

|                               |                                                                                                                      |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------|
| ULR-TC806624000000184F        |                                                                                                                      |
| REPORT NO. : N- 1263          | DATE: 08.02.2024                                                                                                     |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br>Patabeda Iron Mines (14.000 Ha)<br>Patabeda, P.O. Malda, P.S. Koirā, Dist.: Sundergarh, Odisha |
| Ref. no. and Date:            | MGM/VO/2023/24/11-164 Dated:28/11/2023                                                                               |
| Sample receiving date:        | 02.02..2024                                                                                                          |
| Sub:                          | Environmental monitoring                                                                                             |
| Material:                     | Noise Monitoring                                                                                                     |
| Group:                        | Atmospheric Pollution                                                                                                |

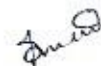
### TEST REPORT

| S.N. | Name of tests                    | Reference                       | Permissible limit as per:<br>Ambient Noise Level     |                     | Location Details (Buffer zone)   |                                   |
|------|----------------------------------|---------------------------------|------------------------------------------------------|---------------------|----------------------------------|-----------------------------------|
| 1.   | Equivalent Sound level dB(A) Leq | SUP/SOP/4<br>033SD &<br>IS:9989 | Standard as per Noise Pollution Regulation Rule-2000 |                     | N- 5<br>Ganua camp<br>08.01.2024 | N- 6<br>Garuda camp<br>22.01.2024 |
|      |                                  |                                 | Category of area Zone                                | Limits in dB(A) Leq | Quarterly Report                 |                                   |
|      |                                  |                                 | 1. Industrial                                        | 75                  | 46.2                             | 43.4                              |
|      |                                  |                                 | 2. Commercial                                        | 65                  |                                  |                                   |
|      |                                  |                                 | 3. Residential                                       | 55                  |                                  |                                   |
|      |                                  |                                 | 4. Silent                                            | 50                  |                                  |                                   |

Tested by:

  
A. Chatterjee

Authorized Signatory

  
P. Dutta

(Technical Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                                      |                                                                                                                                |                         |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| <b>Report No N - 1179</b>            | <b>ULR-TC806624000000163F</b>                                                                                                  | <b>DATE -07.02.2024</b> |
| <b>Name and Address of Customer:</b> | <i>M/s. M.G. MOHANTY, Patabeda Iron Mines (14,000Ha)</i><br><i>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha</i> |                         |
| <b>Work-order no. and Date:</b>      | <b>MGM/WO/2023/24/11-164</b>                                                                                                   | <b>Dated:28/11/2023</b> |
| <b>Sample receiving date:</b>        | <b>16.01.2024</b>                                                                                                              |                         |
| <b>Sub:</b>                          | Water monitoring                                                                                                               |                         |
| <b>Material:</b>                     | Surface Water                                                                                                                  |                         |
| <b>Group:</b>                        | Water                                                                                                                          |                         |

### CHEMICAL REPORT

Date of starting of Test **16.01.2024**

Date of completion of Test: **06.02.2024**

| Sl. No. | Specific Test Performed                  | Test Method                          | Test Result                             |                                           |
|---------|------------------------------------------|--------------------------------------|-----------------------------------------|-------------------------------------------|
|         |                                          |                                      | SW1<br>Up-Stream<br>(Kakarpani Nallaha) | SW2<br>Down-Stream<br>(Kakarpani Nallaha) |
|         |                                          |                                      | Date of Collection<br>13.01.2024        | Date of collection<br>13.01.2024          |
| 1       | pH                                       | IS :3025,P-11, R.A 2009              | 7.64                                    | 7.34                                      |
| 2       | Turbidity(NTU)                           | IS 3025 (P-10), RA2006               | 1.1                                     | 3.0                                       |
| 3       | Alkalinity as CaCo <sub>3</sub> mg/l     | IS 3025 (P-23), RA2014               | 24                                      | 28                                        |
| 4       | Chloride as Cl mg/l                      | IS 3025 (P-32), RA2009               | 4                                       | 4                                         |
| 5       | Total Hardness as CaCo <sub>3</sub> mg/l | IS 3025 (P-21), RA2006               | 34                                      | 32                                        |
| 6       | Calcium as Ca mg/l                       | APHA 23rd EDN 3500Ca B               | 6.4                                     | 9.6                                       |
| 7       | Magnesium as Mg mg/l                     | APHA 23rd EDN 3500 Mg B              | 1.9                                     | 1.9                                       |
| 8       | Sulphate as So <sub>4</sub> mg/l         | APHA 23rd EDN 4500 SO <sub>4</sub> E | 2.0                                     | <1.0                                      |
| 9       | Nitrate as No <sub>3</sub> mg/l          | APHA 23rd EDN 4500 NO <sub>3</sub> B | 2.5                                     | 3.9                                       |
| 10      | Fluoride as F mg/l                       | APHA 23rd EDN 4500 F D               | <0.1                                    | <0.1                                      |
| 11      | Total dissolve Solids mg/l               | IS 3025 (P-16), RA2012               | 33                                      | 34                                        |
| 12      | Total Suspended Solids mg/l              | APHA 23rd EDN 2540 D                 | <1.0                                    | <1.0                                      |
| 13      | D.O.                                     | APHA 23rd EDN 4500 O-C               | 3.6                                     | 3.6                                       |
| 14      | Iron as Fe mg/l                          | APHA 23rd EDN 3111 B                 | <0.05                                   | <0.05                                     |
| 15      | Copper as Cu mg/l                        | APHA 23rd EDN 3111 B & C             | <0.04                                   | <0.04                                     |
| 16      | Zinc as Zn mg/l                          | APHA 23rd EDN 3111 B & C             | <0.01                                   | <0.01                                     |
| 17      | Lead as Pb mg/l                          | APHA 23rd EDN 3120 B                 | <0.01                                   | <0.01                                     |
| 18      | Cadmium as Cd mg/l                       | APHA 23rd EDN 3111 B & C             | <0.01                                   | <0.01                                     |
| 19      | Arsenic as As mg/l                       | APHA 23rd EDN 3120 B                 | <0.05                                   | <0.05                                     |
| 20      | Mercury as Hg mg/l                       | IS 3025 (P-48)MURCURY ANALYSER       | <0.001                                  | <0.001                                    |
| 21      | Chromium as Cr +6mg/l                    | APHA 23rd EDN 3500 B                 | <0.05                                   | <0.05                                     |
| 22      | Phenolic compound mg/l                   | APHA 23rd EDN 5530 D                 | <0.002                                  | <0.002                                    |

Tested by:

A. CHATTERJEE

Authorized Signatory

P. DUTTA (Technical Manager)

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GSTIN : 19AAECS3740C2ZJ



(An ISO 9001 : 2015 Certified)

## TEST REPORT

|                               |                       |                                                                                                                            |  |
|-------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------|--|
| Report No. N- 1179            |                       | DATE - 07.02.2024                                                                                                          |  |
| Name and Address of Customer: |                       | M/s. M.G. MOHANTY,<br>Patabeda Iron Mines <u>(14.000Ha)</u><br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |  |
| Work-order no. and Date:      | MGM/WO/2023/24/11-164 | Dated:28/11/2023                                                                                                           |  |
| Sample receiving date:        | 16.01.2024            |                                                                                                                            |  |
| Sub:                          | Water monitoring      |                                                                                                                            |  |
| Material:                     | Surface Water         |                                                                                                                            |  |
| Group:                        | Water                 |                                                                                                                            |  |

Date of starting of Test 16.01.2024

### CHEMICAL REPORT

Date of completion of test : 05.02.2024

| Sl. No. | Specific Test Performed     | Test Method                                      | Test Result                             |                                           |
|---------|-----------------------------|--------------------------------------------------|-----------------------------------------|-------------------------------------------|
|         |                             |                                                  | SW1<br>Up-Stream<br>(Kakarpani Nallaha) | SW2<br>Down-Stream<br>(Kakarpani Nallaha) |
|         |                             |                                                  | Date of Collection<br>13.01.2024        | Date of Collection<br>13.01.2023          |
| 23      | Temperature                 | APHA 23 <sup>rd</sup> EDN 2550 B                 | 27°C                                    | 27°C                                      |
| 24      | Residual Free Chlorine mg/l | IS 3025 (P-26), RA2009                           | <1.0                                    | <1.0                                      |
| 25      | COD mg/l                    | APHA 23 <sup>rd</sup> EDN 5220 B                 | 8.0                                     | 12.0                                      |
| 26      | Oil and Grease mg/l         | IS 3025 (P-39), RA2009                           | <0.1                                    | <0.1                                      |
| 27      | Aluminium as Al mg/l        | APHA 23 <sup>rd</sup> EDN 3500 Al-B              | <0.2                                    | <0.2                                      |
| 28      | Boron as B mg/l             | APHA 23 <sup>rd</sup> EDN 4500 B-B               | <1.0                                    | <1.0                                      |
| 29      | Manganese as Mn mg/l        | APHA 23 <sup>rd</sup> EDN 3111 B                 | <0.03                                   | <0.03                                     |
| 30      | Nickel as Ni mg/l           | APHA 23 <sup>rd</sup> EDN 3111 B & C             | <0.02                                   | <0.02                                     |
| 31      | Cyanide as CN mg/l          | APHA 23 <sup>rd</sup> EDN 4500 E                 | <0.05                                   | <0.05                                     |
| 32      | Sulphide as S mg/l          | APHA 23 <sup>rd</sup> EDN 4500 S <sup>2</sup> -F | N.T                                     | N.T                                       |
| 33      | Free Ammonia as N mg/l      | IS 3025 (P-34)                                   | N.T                                     | N.T                                       |
| 34      | Kjeldahl Nitrogen as N mg/l | IS 3025 (P-34)                                   | 4                                       | 6                                         |
| 35      | Ammonia as N mg/l           | IS 3025 (P-34)                                   | <0.02                                   | <0.02                                     |

Tested by:

A. CHATTERJEE

Authorized Signatory

P. DUTTA (Technical Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                     |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------|
| ULR-TC806624000000164F        |                                                                                                                     |
| Report No. N- 1180            | Date:07.02.2024                                                                                                     |
| Name and Address of Customer: | M/s. M.G. MOHANTY,<br>Patabeda Iron Mines (14.000Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |
| Work-order no. and Date:      | MGM/WO/2023/24/11-164 Dated:28/11/2023                                                                              |
| Sample receiving date:        | 16.01.2024                                                                                                          |
| Sub:                          | EFFLUENT WATER REPORT (ETP, STP OUTLET)                                                                             |
| Material:                     | Effluent Water                                                                                                      |
| Group:                        | Pollution and environment                                                                                           |

### CHEMICAL REPORT

Date of starting of Test 16.01.2024

Date of completion of Test: 06.02.2024

| Sl. No. | Name of Parameter                               | Test Methods                | CPCB Prescribed Limit for Inland Surface water (Max) |         | Results              |                      |
|---------|-------------------------------------------------|-----------------------------|------------------------------------------------------|---------|----------------------|----------------------|
|         |                                                 |                             | ETP                                                  | STP     | ETP -14 Outlet Water | STP- 14 Outlet Water |
|         |                                                 |                             |                                                      |         | Date of Collection   | Date of Collection   |
| 1       | pH                                              | IS 3025(P-11) R.A.2009      | 5.5-9.0                                              | 5.5-9.0 | 7.47 at 27°C         | 6.94 at 27°C         |
| 2       | Total Dissolve Solids mg/l                      | IS 3025(P-16) R.A.2006      | N/S                                                  | 2100    | 211                  | 321                  |
| 3       | Total suspended solids mg/l                     | IS 3025(P-17) 1984 R.A.2012 | 100                                                  | 200     | <1.0                 | 2.0                  |
| 4       | Chemical Oxygen Demand mg/l                     | APHA 23rd EDN 5220 B        | 250                                                  | N/S     | 8.0                  | 16.0                 |
| 5       | Bio Chemical Oxygen Demand 3 days at 27° C mg/l | IS 3025(P-44),1993 R.A 1999 | 30                                                   | 30      | <3.0                 | <3.0                 |
| 6       | Oil and Grease mg/l                             | IS 3025(P-39), R.A.2009     | 10                                                   | N/S     | 2.4                  | N/R                  |
| 7       | Iron as Fe mg/l                                 | APHA 23rd EDN 3111 B        | 3.0                                                  | 3.0     | 0.262                | 0.357                |
| 8       | Manganese as Mn mg/l                            | APHA 23rd EDN 3111 B        | 2.0                                                  | 2.0     | <0.03                | <0.03                |
| 9       | Chloride as cl mg/l                             | IS 3025, P-32               | N/S                                                  | N/S     | N/R                  | 16                   |

Tested by:

A. CHATTERJEE

Authorized Signatory

P.DUTTA

(Technical Manager)

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# SUPERINTENDENCE COMPANY OF INDIA PRIVATE LIMITED

## LABORATORY :

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☎ : (033) 2357-4671 / 4681 / 5039 / 5042 • Fax : (033) 2357- 4806  
E-mail : supind2019@gmail.com / supind50@yahoo.co.in  
Website : www.superintendencecoindia.com



(An ISO 9001 : 2015 Certified)

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

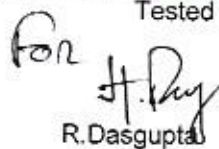
|                               |                                                                                                                     |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Report No. N- 1180            | Date 07.02.2024                                                                                                     |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br>Patabeda Iron Mines (14.000Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |
| Work-order no. and Date:      | MGM/WO/2023/24/11-164 Dated:28/11/2023                                                                              |
| Sample receiving date:        | 16.01.2024                                                                                                          |
| Sub:                          | EFFLUENT WATER MONITORING REPORT (STP OUTLET)                                                                       |
| Material:                     | Effluent Water Monitoring                                                                                           |
| Group:                        | Pollution and environment                                                                                           |

### TEST RESULT OF BACTERIOLOGICAL

Date of starting of Test: 16.01.2024 Date of completion of Test 06.02.2024

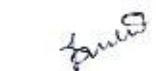
| Sl. No. | Specific Test Performed  | Test Method          | Permissible Limits as per OPCB | Test Result                              |
|---------|--------------------------|----------------------|--------------------------------|------------------------------------------|
|         |                          |                      |                                | STP 14 Out-let Water<br>DATE- 13.01.2024 |
| 1       | Fecal Coliform (MPN/100) | As per IS: 1622-1981 | <1000                          | 650cfu/100ml                             |

Tested by:

For   
R. Dasgupta

  
H. Ray

Authorised Signatory

  
P. DUTTA  
(Technical Manager)

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**SUPERINTENDENCE CO. OF INDIA (P) LTD.**

**ENVIRONMENTAL BASELINE DATA GENERATION  
AT**

**M/S – M.G.MOHANTY  
PROJECT: Patabeda Iron Mines (14.000 Ha)**

**Work Order no.: MGM/WO/2023/24/11-164      Dated:28/11/2023**

**REPORT  
REPORT FOR THE MONTH OF DECEMBER 2023**

\*\*\*\*\*

**Branch Office :** AT/P.O : NALDA , DIST : KEONJHAR, ODISHA – 758 042  
TEL #: 06767 – 212562, 211456,  
CABLE – IMPARTIAL  
E-mail: supindnalda@rediffmail.com

**Regional Office:** Plot No.: Y23, Block EP, Sector V, Salt Lake City-7000 91  
Kolkata – 700 091  
Ph. No. : (033) - 2357-1492/4670/4671/4681  
Fax: 033- 2357-4806  
E-mail: supindkolkata@vsnl.net / supind50yahoo.co.in  
Website: www.superintendence.co

**Regd. Office:** “Everest House”, 7<sup>th</sup> floor, 46C, Chowringhee Road,  
Kolkata – 700 071  
Ph: \_ (033) 2288-7572, 73/8960/6430/ 1487/1167  
Fax No :( 033) 2288- 9015 / 5894  
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Website: www.superintendence.co



# SUPERINTENDENCE COMPANY OF INDIA PRIVATE LIMITED

(An ISO 9001 : 2015 Certified)

Regional office : Plot No. Y 23, Block-EP, Sector-V, Salt Lake City, Kolkata-700 091, Phone : (033) 2357-4671/4681/4873/5039/5042

Fax : (033) 2357-4806, E-mail : supind2019@gmail.com, supind50@yahoo.co.in, Website : www.superintendencecoindia.com

Ref.: SUENV/. M.G. MOHANTY(14.000 Ha) /KB /315

Date: 04.01.2024

To  
**The Mines Manager,**  
M/s. M.G. Mohanty.  
Patabeda Iron Mines (14.000 Ha)  
Patabeda, P.O. Malda, P.S. Koira,  
Dist.: Sundergarh, Odisha

Sub: Submission of Test Report for the Month of **DECEMBER 2023**

Work Order no & Dated.: **MGM/WO/2023/24/11-164**

Dated:28/11/2023

Dear Sir,

We are submitting herewith test reports for the month of **DECEMBER 2023** as follows:

- a. Ambient Air Monitoring (5 Parameters).
- b. Fugitive Dust
- c. Noise Monitoring
- d. Surface Water Quality
- e. Drinking Water Quality
- f. ETP & STP Out Let Treated Water

Thanking you,

With Regards,

**Superintendence Co. of India (P) Ltd.**

**S. Paul**  
**(ADDL.DIRECTOR)**

Encl: as above

Regd. office : 7G, EVEREST HOUSE, 46C, Chowringhee Road, Kolkata-700 071, Tele/Fax : (033) 2288 9015, E-mail : supind2019@gmail.com, supind50@yahoo.co.in  
Website : www.superintendencecoindia.com

Mumbai : "LAXMI BHAWAN", 161, P. D. Mello Road, Mumbai-400 001, Phone : (022) 2261-1244, Fax : (022) 2261-5289, E-mail : supindbombay@gmail.com

Delhi : 203, "AGARWAL BHAWAN", 35-36, Nehru Place, New Delhi-110 019, Tele/Fax : (011) 2647-5066 E-mail : supind50@yahoo.co.in

Chennai : 138, Angappa Naicken Street, Chennai-600 001, Phone : (044) 2522-9885/6192, Fax : (044) 2522-1612, E-mail : supindchennai@rediffmail.com





TC-8066

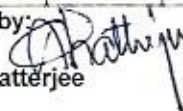
## TEST REPORT

|                               |                                                                                                                                                            |                         |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| REPORT NO. : N- 1055          | ULR-TC806624000000003F                                                                                                                                     | DATE - 04.01.2024       |
| Name and Address of Customer: | <b>M/s. M.G. MOHANTY.</b><br><b>Patabeda Iron &amp; Manganese Mines ((14.000 Ha)</b><br><b>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha</b> |                         |
| Work order No. and Date:      | <b>MGM/WO/2023/24/11-164</b>                                                                                                                               | <b>Dated:28/11/2023</b> |
| Sample receiving date:        | 26.12.2023                                                                                                                                                 |                         |
| Sub:                          | Environmental monitoring                                                                                                                                   |                         |
| Material:                     | Ambient Air                                                                                                                                                |                         |
| Group:                        | Atmospheric Pollution                                                                                                                                      |                         |

Date of starting of Test: 26.12.2023 CHEMICAL TEST RESULT

Date of completion of Test 29.12.2023

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                         |                         |                         |                         |                         |                         |                         |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                         |                         |                         |                         |                         |                         |                         |
|         |                                                              |                                 |                                     | AAQ-1 Mines Quarry (CZ)  | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date |                         |                         |                         |                         |                         |                         |                         |
|         |                                                              |                                 |                                     | 01.12.23                 | 02.12.23                | 03.12.23                | 04.12.23                | 05.12.23                | 06.12.23                | 07.12.23                | 08.12.23                |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 43.65                    | 46.59                   | 42.89                   | 45.58                   | 41.85                   | 42.31                   | 43.56                   | 40.67                   |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 74.23                    | 80.16                   | 76.43                   | 79.46                   | 70.68                   | 72.45                   | 74.32                   | 69.73                   |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 10.87                    | 12.38                   | 11.65                   | 12.37                   | 10.72                   | 12.67                   | 13.25                   | 12.42                   |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART- 6,2006, RA-2017   | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 16.31                    | 17.23                   | 17.31                   | 18.24                   | 15.43                   | 19.82                   | 20.81                   | 17.28                   |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 1.06                     | 0.94                    | 0.92                    | 1.04                    | 0.96                    | 0.89                    | 0.93                    | 1.04                    |

Tested by:   
A. Chatterjee

Authorized Signatory  
  
P. Dutta (Technical Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                                                            |                         |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| REPORT NO. : N- 1055          | ULR-TC806624000000003F                                                                                                                                     | DATE - 04.01.2024       |
| Name and Address of Customer: | <b>M/s. M.G. MOHANTY.</b><br><b>Patabeda Iron &amp; Manganese Mines ((14.000 Ha)</b><br><b>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha</b> |                         |
| Work order No. and Date:      | <b>MGM/WO/2023/24/11-164</b>                                                                                                                               | <b>Dated:28/11/2023</b> |
| Sample receiving date:        | 26.12.2023                                                                                                                                                 |                         |
| Sub:                          | Environmental monitoring                                                                                                                                   |                         |
| Material:                     | Ambient Air                                                                                                                                                |                         |
| Group:                        | Atmospheric Pollution                                                                                                                                      |                         |

Date of starting of Test: 26.12.2023 CHEMICAL TEST RESULT Date of completion of Test 29.12.2023

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                         |                         |                         |                         |                         |                         |                         |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                         |                         |                         |                         |                         |                         |                         |
|         |                                                              |                                 |                                     | AAQ-1 Mines Quarry (CZ)  | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date |                         |                         |                         |                         |                         |                         |                         |
|         |                                                              |                                 |                                     | 09.12.23                 | 10.12.23                | 11.12.23                | 12.12.23                | 13.12.23                | 14.12.23                | 15.12.23                | 16.12.23                |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 46.39                    | 42.61                   | 40.32                   | 44.62                   | 43.59                   | 45.61                   | 41.56                   | 48.61                   |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 78.59                    | 73.83                   | 69.51                   | 78.75                   | 73.46                   | 76.34                   | 68.63                   | 78.49                   |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 11.81                    | 12.42                   | 10.16                   | 11.94                   | 12.37                   | 11.72                   | 10.95                   | 14.27                   |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 81.62                    | 19.23                   | 16.47                   | 18.23                   | 20.89                   | 17.25                   | 15.29                   | 20.53                   |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 0.98                     | 0.92                    | 0.94                    | 0.96                    | 1.04                    | 0.89                    | 0.87                    | 0.98                    |

Tested by:

A. Chatterjee

Authorized Signatory

P. Dutta (Technical Manager)

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TC-8066

## TEST REPORT

|                               |                                                                                                                                              |                   |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| REPORT NO. : N- 1117          | ULR-TC80662400000009F                                                                                                                        | DATE - 04.01.2024 |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br><b>Patabeda Iron &amp; Manganese Mines ((14.000 Ha)</b><br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                   |
| Work order No. and Date:      | MGM/VO/2023/24/11-164                                                                                                                        | Dated:28/11/2023  |
| Sample receiving date:        | 03.01.2024                                                                                                                                   |                   |
| Sub:                          | Environmental monitoring                                                                                                                     |                   |
| Material:                     | Ambient Air                                                                                                                                  |                   |
| Group:                        | Atmospheric Pollution                                                                                                                        |                   |

Date of starting of Test: 03.01.2024 CHEMICAL TEST RESULT

Date of completion of Test 04.01.2024

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                         |                         |                         |                         |                         |                         |                         |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                         |                         |                         |                         |                         |                         |                         |
|         |                                                              |                                 |                                     | AAQ-1 Mines Quarry (CZ)  | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date |                         |                         |                         |                         |                         |                         |                         |
|         |                                                              |                                 |                                     | 17.12.23                 | 18.12.23                | 19.12.23                | 20.12.23                | 21.12.23                | 22.12.23                | 23.12.23                | 24.12.23                |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 42.56                    | 47.51                   | 43.82                   | 49.85                   | 40.62                   | 43.65                   | 45.96                   | 43.52                   |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 74.38                    | 78.45                   | 72.58                   | 80.64                   | 69.42                   | 72.86                   | 75.87                   | 72.48                   |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 13.94                    | 15.24                   | 12.46                   | 16.72                   | 15.21                   | 14.58                   | 13.43                   | 15.51                   |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 19.22                    | 20.83                   | 16.27                   | 21.35                   | 10.59                   | 19.82                   | 17.24                   | 10.47                   |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 0.87                     | 0.93                    | 1.03                    | 0.89                    | 0.94                    | 1.07                    | 0.91                    | 1.02                    |

Tested by:

A. Chatterjee

Authorized Signatory

P. Dutta (Technical Manager)

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TC-8066

## TEST REPORT

|                                                                                                        |                                                                                                                                              |                   |
|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| REPORT NO. : N- 1117                                                                                   | ULR-TC806624000000009F                                                                                                                       | DATE - 04.01.2024 |
| Name and Address of Customer:                                                                          | M/s. M.G. MOHANTY.<br><b>Patabeda Iron &amp; Manganese Mines ((14.000 Ha)</b><br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                   |
| Work order No. and Date:                                                                               | MGM/WO/2023/24/11-164                                                                                                                        | Dated:28/11/2023  |
| Sample receiving date:                                                                                 | 03.01.2024                                                                                                                                   |                   |
| Sub:                                                                                                   | Environmental monitoring                                                                                                                     |                   |
| Material:                                                                                              | Ambient Air                                                                                                                                  |                   |
| Group:                                                                                                 | Atmospheric Pollution                                                                                                                        |                   |
| Date of starting of Test: 03.01.2024 <b>CHEMICAL TEST RESULT</b> Date of completion of Test 04.01.2024 |                                                                                                                                              |                   |

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result             |                         |                         |                         |                         |                         |                         |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS        |                         |                         |                         |                         |                         |                         |
|         |                                                              |                                 |                                     | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) | AAQ-1 Mines Quarry (CZ) |
|         |                                                              |                                 |                                     | 25.12.23                | 26.12.23                | 27.12.23                | 28.12.23                | 29.12.23                | 30.12.23                | 31.12.23                |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 46.71                   | 41.62                   | 43.54                   | 44.23                   | 45.26                   | 42.76                   | 47.23                   |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 80.23                   | 70.64                   | 73.89                   | 74.51                   | 76.14                   | 70.38                   | 78.51                   |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 14.55                   | 12.76                   | 14.36                   | 15.47                   | 14.52                   | 13.41                   | 14.65                   |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 20.84                   | 16.27                   | 18.74                   | 21.39                   | 19.65                   | 17.26                   | 18.74                   |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 1.03                    | 0.94                    | 0.95                    | 0.89                    | 0.92                    | 1.08                    | 0.96                    |

Tested by:

*A. Chatterjee*  
A. Chatterjee

Authorized Signatory

*P. Dutta*  
P. Dutta (Technical Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                                              |                   |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| REPORT NO. : N- 1055          | ULR-TC806624000000003F                                                                                                                       | DATE - 04.01.2024 |
| Name and Address of Customer: | M/s. M.G. MOHANTY,<br><b>Patabeda Iron &amp; Manganese Mines ((14.000 Ha)</b><br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                   |
| Work order No. and Date:      | MGM/VO/2023/24/11-164                                                                                                                        | Dated:28/11/2023  |
| Sample receiving date:        | 26.12.2023                                                                                                                                   |                   |
| Sub:                          | Environmental monitoring                                                                                                                     |                   |
| Material:                     | Ambient Air                                                                                                                                  |                   |
| Group:                        | Atmospheric Pollution                                                                                                                        |                   |

Date of starting of Test: 26.12.2023

### CHEMICAL TEST RESULT

Date of completion of Test 29.12.2023

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result                  |                              |                              |                              |                              |                              |                              |                              |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS             |                              |                              |                              |                              |                              |                              |                              |
|         |                                                              |                                 |                                     | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date     |                              |                              |                              |                              |                              |                              |                              |
|         |                                                              |                                 |                                     | 01.12.23                     | 02.12.23                     | 03.12.23                     | 04.12.23                     | 05.12.23                     | 06.12.23                     | 07.12.23                     | 08.12.23                     |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 44.21                        | 43.51                        | 46.38                        | 40.86                        | 45.32                        | 49.25                        | 47.28                        | 48.59                        |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 79.48                        | 74.32                        | 76.12                        | 70.68                        | 76.19                        | 79.45                        | 78.31                        | 80.66                        |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 11.25                        | 13.25                        | 12.43                        | 11.47                        | 12.48                        | 13.57                        | 14.27                        | 13.24                        |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 18.43                        | 19.46                        | 17.65                        | 16.23                        | 18.36                        | 20.62                        | 20.43                        | 19.18                        |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 0.93                         | 0.96                         | 0.88                         | 0.93                         | 0.90                         | 0.79                         | 0.82                         | 0.87                         |

Tested by:

A. Chatterjee

Authorized Signatory

P. Dutta (Technical Manager)

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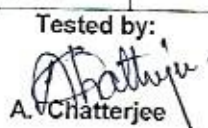


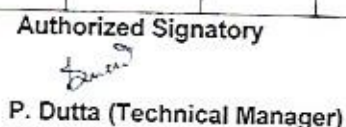
TC-8066

## TEST REPORT

|                                       |                                                                                                                                   |                   |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------|
| REPORT NO. : N- 1055                  | ULR-TC806624000000003F                                                                                                            | DATE - 04.01.2024 |
| Name and Address of Customer:         | M/s. M.G. MOHANTY.<br>Patabeda Iron & Manganese Mines ((14.000 Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                   |
| Work order No. and Date:              | MGM/VO/2023/24/11-164                                                                                                             | Dated:28/11/2023  |
| Sample receiving date:                | 26.12.2023                                                                                                                        |                   |
| Sub:                                  | Environmental monitoring                                                                                                          |                   |
| Material:                             | Ambient Air                                                                                                                       |                   |
| Group:                                | Atmospheric Pollution                                                                                                             |                   |
| Date of starting of Test: 26.12.2023  |                                                                                                                                   |                   |
| CHEMICAL TEST RESULT                  |                                                                                                                                   |                   |
| Date of completion of Test 29.12.2023 |                                                                                                                                   |                   |

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result                  |                              |                              |                              |                              |                              |                              |                              |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS             |                              |                              |                              |                              |                              |                              |                              |
|         |                                                              |                                 |                                     | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) |
|         |                                                              |                                 |                                     | 09.12.23                     | 10.12.23                     | 11.12.23                     | 12.12.23                     | 13.12.23                     | 14.12.23                     | 15.12.23                     | 16.12.23                     |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART-24                | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 50.48                        | 43.61                        | 46.32                        | 40.51                        | 42.87                        | 48.57                        | 45.69                        | 46.51                        |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 82.52                        | 74.59                        | 75.83                        | 70.48                        | 73.62                        | 80.43                        | 76.28                        | 78.46                        |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 14.27                        | 12.48                        | 13.76                        | 10.24                        | 11.74                        | 13.72                        | 12.37                        | 13.28                        |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6, 2006, RA-2017   | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 21.36                        | 16.24                        | 19.67                        | 14.39                        | 16.25                        | 20.85                        | 16.72                        | 19.34                        |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 0.92                         | 0.96                         | 1.05                         | 0.90                         | 0.92                         | 1.08                         | 0.94                         | 0.92                         |

Tested by:  
  
A. Chatterjee

Authorized Signatory  
  
P. Dutta (Technical Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                                   |                   |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------|
| REPORT NO. : N- 1117          | ULR-TC806624000000009F                                                                                                            | DATE - 04.01.2024 |
| Name and Address of Customer: | M/s. M.G. MOHANTY,<br>Patabeda Iron & Manganese Mines ((14.000 Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                   |
| Work order No. and Date:      | MGM/WO/2023/24/11-164                                                                                                             | Dated:28/11/2023  |
| Sample receiving date:        | 03.01.2024                                                                                                                        |                   |
| Sub:                          | Environmental monitoring                                                                                                          |                   |
| Material:                     | Ambient Air                                                                                                                       |                   |
| Group:                        | Atmospheric Pollution                                                                                                             |                   |

Date of starting of Test: 03.01.2024 CHEMICAL TEST RESULT

Date of completion of Test 04.01.2024

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result                  |                              |                              |                              |                              |                              |                              |                              |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS             |                              |                              |                              |                              |                              |                              |                              |
|         |                                                              |                                 |                                     | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) |
|         |                                                              |                                 |                                     | 17.12.23                     | 18.12.23                     | 19.12.23                     | 20.12.23                     | 21.12.23                     | 22.12.23                     | 23.12.23                     | 24.12.23                     |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 40.85                        | 45.91                        | 49.35                        | 42.89                        | 48.56                        | 46.85                        | 44.68                        | 43.95                        |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 70.12                        | 75.87                        | 79.54                        | 70.18                        | 80.32                        | 72.73                        | 76.51                        | 74.52                        |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 12.75                        | 13.59                        | 14.23                        | 13.71                        | 15.43                        | 14.23                        | 13.87                        | 12.46                        |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART- 6,2006, RA-2017   | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 16.36                        | 18.46                        | 20.36                        | 18.24                        | 20.58                        | 19.52                        | 18.34                        | 17.27                        |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 0.89                         | 0.87                         | 0.94                         | 0.83                         | 0.79                         | 0.92                         | 0.90                         | 0.96                         |

Tested by:

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Authorized Signatory

P. Dutta (Technical Manager)

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TC-8066

## TEST REPORT

|                               |                                                                                                                                              |                   |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| REPORT NO. : N- 1117          | ULR-TC806624000000009F                                                                                                                       | DATE - 04.01.2024 |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br><b>Patabeda Iron &amp; Manganese Mines ((14.000 Ha)</b><br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                   |
| Work order No. and Date:      | MGM/VO/2023/24/11-164                                                                                                                        | Dated:28/11/2023  |
| Sample receiving date:        | 03.01.2024                                                                                                                                   |                   |
| Sub:                          | Environmental monitoring                                                                                                                     |                   |
| Material:                     | Ambient Air                                                                                                                                  |                   |
| Group:                        | Atmospheric Pollution                                                                                                                        |                   |

Date of starting of Test: 03.01.2024

CHEMICAL TEST RESULT

Date of completion of Test 04.01.2024

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result                  |                              |                              |                              |                              |                              |                              |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS             |                              |                              |                              |                              |                              |                              |
|         |                                                              |                                 |                                     | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) | AAQ-2 Mines entry point (CZ) |
|         |                                                              |                                 |                                     | 25.12.23                     | 26.12.23                     | 27.12.23                     | 28.12.23                     | 29.12.23                     | 30.12.23                     | 31.12.23                     |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 48.61                        | 47.82                        | 42.59                        | 50.72                        | 49.67                        | 45.96                        | 46.52                        |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 77.46                        | 75.46                        | 70.41                        | 81.24                        | 80.73                        | 78.67                        | 79.23                        |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 14.35                        | 15.67                        | 12.93                        | 15.46                        | 14.25                        | 14.78                        | 14.65                        |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART- 6,2006, RA-2017   | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 20.14                        | 21.28                        | 16.84                        | 19.58                        | 18.34                        | 19.24                        | 17.84                        |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 0.86                         | 0.97                         | 0.04                         | 0.98                         | 0.93                         | 0.89                         | 1.02                         |

Tested by:

A. Chatterjee

Authorized Signatory

P. Dutta (Technical Manager)

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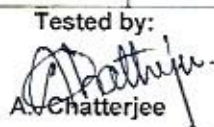
GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                                              |                   |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| REPORT NO. : N- 1055          | ULR-TC806624000000003F                                                                                                                       | DATE - 04.01.2024 |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br><b>Patabeda Iron &amp; Manganese Mines ((14.000 Ha)</b><br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                   |
| Work order No. and Date:      | MGM/WO/2023/24/11-164                                                                                                                        | Dated:28/11/2023  |
| Sample receiving date:        | 26.12.2023                                                                                                                                   |                   |
| Sub:                          | Environmental monitoring                                                                                                                     |                   |
| Material:                     | Ambient Air                                                                                                                                  |                   |
| Group:                        | Atmospheric Pollution                                                                                                                        |                   |

Date of starting of Test: 26.12.2023 **CHEMICAL TEST RESULT** Date of completion of Test 29.12.2023

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                 |                 |                 |                 |                 |                 |                 |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                 |                 |                 |                 |                 |                 |                 |
|         |                                                              |                                 |                                     | AAQ-3 Dump (CZ)          | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date |                 |                 |                 |                 |                 |                 |                 |
|         |                                                              |                                 |                                     | 01.12.23                 | 02.12.23        | 03.12.23        | 04.12.23        | 05.12.23        | 06.12.23        | 07.12.23        | 08.12.23        |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 46.71                    | 40.25           | 45.72           | 47.81           | 42.45           | 43.26           | 44.79           | 42.17           |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 78.53                    | 69.27           | 72.65           | 80.62           | 72.86           | 74.53           | 76.32           | 73.48           |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 10.46                    | 10.63           | 12.54           | 13.74           | 12.94           | 11.48           | 12.84           | 11.72           |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 15.42                    | 16.24           | 17.36           | 17.26           | 16.72           | 15.61           | 19.66           | 18.56           |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 0.92                     | 0.93            | 0.89            | 0.93            | 0.94            | 0.90            | 0.88            | 0.86            |

Tested by:  
  
A. Chatterjee

Authorized Signatory  
  
P. Dutta (Technical Manager)

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TC-8066

## TEST REPORT

|                               |                                                                                                                                                            |                         |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 78.53REPORT NO. : N- 1055     | ULR-TC806624000000003F                                                                                                                                     | DATE - 04.01.2024       |
| Name and Address of Customer: | <b>M/s. M.G. MOHANTY,</b><br><b>Patabeda Iron &amp; Manganese Mines ((14.000 Ha)</b><br><b>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha</b> |                         |
| Work order No. and Date:      | <b>MGM/WO/2023/24/11-164</b>                                                                                                                               | <b>Dated:28/11/2023</b> |
| Sample receiving date:        | 26.12.2023                                                                                                                                                 |                         |
| Sub:                          | Environmental monitoring                                                                                                                                   |                         |
| Material:                     | Ambient Air                                                                                                                                                |                         |
| Group:                        | Atmospheric Pollution                                                                                                                                      |                         |

Date of starting of Test: 26.12.2023 CHEMICAL TEST RESULT Date of completion of Test 29.12.2023

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                 |                 |                 |                 |                 |                 |                 |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                 |                 |                 |                 |                 |                 |                 |
|         |                                                              |                                 |                                     | AAQ-3 Dump (CZ)          | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date |                 |                 |                 |                 |                 |                 |                 |
|         |                                                              |                                 |                                     | 09.12.23                 | 10.12.23        | 11.12.23        | 12.12.23        | 13.12.23        | 14.12.23        | 15.12.23        | 16.12.23        |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART-24                | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 46.21                    | 48.21           | 42.58           | 45.27           | 41.56           | 43.61           | 44.56           | 44.62           |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 75.69                    | 80.56           | 73.86           | 78.53           | 70.21           | 72.81           | 75.24           | 78.21           |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 12.48                    | 11.47           | 12.68           | 11.84           | 10.37           | 11.06           | 12.45           | 12.53           |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 18.26                    | 16.32           | 18.79           | 17.35           | 15.46           | 16.73           | 17.32           | 17.47           |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 0.90                     | 0.92            | 0.94            | 0.89            | 0.93            | 0.95            | 0.87            | 0.85            |

Tested by:

*A. Chatterjee*  
A. Chatterjee

Authorized Signatory

*P. Dutta*  
P. Dutta (Technical Manager)

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TC-8066

## TEST REPORT

|                               |                                                                                                                                   |                   |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------|
| REPORT NO. : N- 1117          | ULR-TC806624000000009F                                                                                                            | DATE - 04.01.2024 |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br>Patabeda Iron & Manganese Mines ((14.000 Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                   |
| Work order No. and Date:      | MGM/VO/2023/24/11-164                                                                                                             | Dated:28/11/2023  |
| Sample receiving date:        | 03.01.2024                                                                                                                        |                   |
| Sub:                          | Environmental monitoring                                                                                                          |                   |
| Material:                     | Ambient Air                                                                                                                       |                   |
| Group:                        | Atmospheric Pollution                                                                                                             |                   |

Date of starting of Test: 03.01.2024

### CHEMICAL TEST RESULT

Date of completion of Test 04.01.2024

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                 |                 |                 |                 |                 |                 |                 |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                 |                 |                 |                 |                 |                 |                 |
|         |                                                              |                                 |                                     | AAQ-3 Dump (CZ)          | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date |                 |                 |                 |                 |                 |                 |                 |
|         |                                                              |                                 |                                     | 17.12.23                 | 18.12.23        | 19.12.23        | 20.12.23        | 21.12.23        | 22.12.23        | 23.12.23        | 24.12.23        |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 41.35                    | 42.75           | 46.82           | 45.76           | 40.26           | 41.63           | 39.16           | 43.57           |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 73.64                    | 75.32           | 79.23           | 80.37           | 69.58           | 72.48           | 68.35           | 72.46           |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 13.42                    | 12.45           | 14.65           | 14.52           | 11.84           | 12.57           | 11.84           | 13.55           |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 18.23                    | 16.54           | 19.34           | 20.45           | 15.22           | 17.24           | 16.42           | 18.69           |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 0.94                     | 0.83            | 0.91            | 0.82            | 0.86            | 0.84            | 0.78            | 0.86            |

Tested by:

A. Chatterjee

Authorized Signatory

P. Dutta (Technical Manager)

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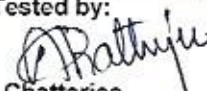
GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                                   |                   |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------|
| REPORT NO. : N- 1117          | ULR-TC806624000000009F                                                                                                            | DATE - 04.01.2024 |
| Name and Address of Customer: | M/s. M.G. MOHANTY,<br>Patabeda Iron & Manganese Mines ((14.000 Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                   |
| Work order No. and Date:      | MGM/WO/2023/24/11-164                                                                                                             | Dated:28/11/2023  |
| Sample receiving date:        | 03.01.2024                                                                                                                        |                   |
| Sub:                          | Environmental monitoring                                                                                                          |                   |
| Material:                     | Ambient Air                                                                                                                       |                   |
| Group:                        | Atmospheric Pollution                                                                                                             |                   |

Date of starting of Test 03.01.2024 CHEMICAL TEST RESULT Date of completion of Test 04.01.2024

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                 |                 |                 |                 |                 |                 |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                 |                 |                 |                 |                 |                 |
|         |                                                              |                                 |                                     | AAQ-3 Dump (CZ)          | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) | AAQ-3 Dump (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date |                 |                 |                 |                 |                 |                 |
|         |                                                              |                                 |                                     | 25.12.23                 | 26.12.23        | 27.12.23        | 28.12.23        | 29.12.23        | 30.12.23        | 31.12.23        |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 43.15                    | 48.56           | 42.53           | 40.21           | 45.62           | 48.57           | 49.72           |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 77.36                    | 79.89           | 74.25           | 70.83           | 76.81           | 78.42           | 80.46           |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 13.42                    | 14.38           | 12.46           | 11.64           | 12.43           | 14.28           | 15.27           |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 16.24                    | 19.21           | 16.37           | 15.79           | 19.64           | 21.67           | 22.53           |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 1.08                     | 0.96            | 1.10            | 1.02            | 0.92            | 0.96            | 0.87            |

Tested by:  
  
 A. Chatterjee

Authorized Signatory  
  
 P. Dutta (Technical Manager)

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TC-8066

## TEST REPORT

|                               |                                                                                                                                              |                   |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| REPORT NO. : N- 1055          | ULR-TC806624000000003F                                                                                                                       | DATE - 04.01.2024 |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br><b>Patabeda Iron &amp; Manganese Mines ((14.000 Ha)</b><br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                   |
| Work order No. and Date:      | MGM/WO/2023/24/11-164                                                                                                                        | Dated:28/11/2023  |
| Sample receiving date:        | 26.12.2023                                                                                                                                   |                   |
| Sub:                          | Environmental monitoring                                                                                                                     |                   |
| Material:                     | Ambient Air                                                                                                                                  |                   |
| Group:                        | Atmospheric Pollution                                                                                                                        |                   |

Date of starting of Test: 26.12.2023 CHEMICAL TEST RESULT

Date of completion of Test 29.12.2023

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                      |                      |                      |                      |                      |                      |                      |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                      |                      |                      |                      |                      |                      |                      |
|         |                                                              |                                 |                                     | AAQ-4 Haul Road (CZ)     | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date |                      |                      |                      |                      |                      |                      |                      |
|         |                                                              |                                 |                                     | 01.12.23                 | 02.12.23             | 03.12.23             | 04.12.23             | 05.12.23             | 06.12.23             | 07.12.23             | 08.12.23             |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 48.21                    | 46.15                | 52.64                | 47.25                | 53.24                | 50.42                | 52.34                | 54.21                |
| 02      | Particulate Matter (PM <sub>10</sub> ) (µg/m <sup>3</sup> )  | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 80.46                    | 78.23                | 85.71                | 79.13                | 85.36                | 80.56                | 84.12                | 86.45                |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 14.37                    | 13.24                | 15.46                | 16.28                | 14.37                | 16.75                | 15.63                | 16.92                |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 20.59                    | 21.88                | 20.17                | 19.78                | 21.23                | 22.48                | 20.78                | 20.40                |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 1.12                     | 1.04                 | 1.08                 | 1.13                 | 0.99                 | 1.26                 | 1.14                 | 1.20                 |

Tested by:

*A. Chatterjee*  
A. Chatterjee

Authorized Signatory

*P. Dutta*  
P. Dutta (Technical Manager)

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TC-8066

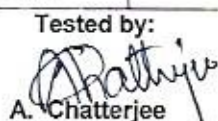
GSTIN : 19AAECS3740C2ZJ

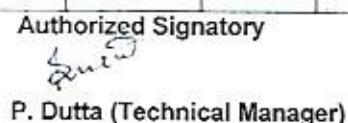
## TEST REPORT

|                               |                                                                                                                                                            |                         |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| REPORT NO. : N- 1055          | ULR-TC806624000000003F                                                                                                                                     | DATE - 04.01.2024       |
| Name and Address of Customer: | <b>M/s. M.G. MOHANTY.</b><br><b>Patabeda Iron &amp; Manganese Mines ((14.000 Ha)</b><br><b>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha</b> |                         |
| Work order No. and Date:      | <b>MGM/WO/2023/24/11-164</b>                                                                                                                               | <b>Dated:28/11/2023</b> |
| Sample receiving date:        | 26.12.2023                                                                                                                                                 |                         |
| Sub:                          | Environmental monitoring                                                                                                                                   |                         |
| Material:                     | Ambient Air                                                                                                                                                |                         |
| Group:                        | Atmospheric Pollution                                                                                                                                      |                         |

Date of starting of Test 26.12.2023 CHEMICAL TEST RESULT Date of completion of Test 29.12.2023

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                      |                      |                      |                      |                      |                      |                      |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                      |                      |                      |                      |                      |                      |                      |
|         |                                                              |                                 |                                     | AAQ-4 Haul Road (CZ)     | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date |                      |                      |                      |                      |                      |                      |                      |
|         |                                                              |                                 |                                     | 09.12.23                 | 10.12.23             | 11.12.23             | 12.12.23             | 13.12.23             | 14.12.23             | 15.12.23             | 16.12.23             |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 51.29                    | 52.61                | 50.19                | 46.27                | 53.41                | 51.68                | 54.87                | 49.61                |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 82.46                    | 84.27                | 82.31                | 78.54                | 85.27                | 83.74                | 87.46                | 79.48                |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 15.67                    | 14.52                | 12.86                | 12.75                | 13.56                | 14.23                | 15.64                | 16.24                |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART- 6,2006, RA-2017   | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 21.72                    | 22.34                | 20.42                | 18.36                | 20.19                | 21.37                | 23.22                | 22.35                |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 1.18                     | 1.10                 | 1.22                 | 1.13                 | 1.04                 | 1.20                 | 1.09                 | 1.16                 |

Tested by:  
  
A. Chatterjee

Authorized Signatory  
  
P. Dutta (Technical Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                                   |                   |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------|
| REPORT NO. : N- 1117          | ULR-TC806624000000009F                                                                                                            | DATE - 04.01.2024 |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br>Patabeda Iron & Manganese Mines ((14.000 Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                   |
| Work order No. and Date:      | MGM/VO/2023/24/11-164                                                                                                             | Dated:28/11/2023  |
| Sample receiving date:        | 03.01.2024                                                                                                                        |                   |
| Sub:                          | Environmental monitoring                                                                                                          |                   |
| Material:                     | Ambient Air                                                                                                                       |                   |
| Group:                        | Atmospheric Pollution                                                                                                             |                   |

Date of starting of Test: 03.01.2024

CHEMICAL TEST RESULT

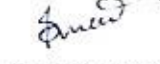
Date of completion of Test 04.01.2024

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result          |                      |                      |                      |                      |                      |                      |                      |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS     |                      |                      |                      |                      |                      |                      |                      |
|         |                                                              |                                 |                                     | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) |
|         |                                                              |                                 |                                     | 17.12.23             | 18.12.23             | 19.12.23             | 20.12.23             | 21.12.23             | 22.12.23             | 23.12.23             | 24.12.23             |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 52.14                | 50.86                | 46.12                | 53.49                | 54.66                | 55.41                | 52.11                | 56.48                |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 84.32                | 80.67                | 82.31                | 87.21                | 88.79                | 89.61                | 86.58                | 90.86                |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 18.45                | 18.29                | 14.65                | 16.92                | 18.25                | 17.32                | 19.43                | 17.23                |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6, 2006, RA-2017   | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 21.51                | 24.57                | 20.76                | 21.35                | 24.59                | 26.51                | 27.36                | 23.65                |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 1.28                 | 1.14                 | 1.03                 | 1.29                 | 1.12                 | 1.24                 | 1.15                 | 1.06                 |

Tested by:

  
A. Chatterjee

Authorized Signatory

  
P. Dutta (Technical Manager)

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**GSTIN : 19AAECS3740C2ZJ**

## TEST REPORT

|                               |                                                                                                                                  |                   |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------|
| REPORT NO. : N- 1117          | ULR-TC806624000000009F                                                                                                           | DATE - 04.01.2024 |
| Name and Address of Customer: | M/s. M.G. MOHANTY,<br>Patabeda Iron & Manganese Mines (14.000 Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                   |
| Work order No. and Date:      | MGM/WO/2023/24/11-164                                                                                                            | Dated:28/11/2023  |
| Sample receiving date:        | 03.01.2024                                                                                                                       |                   |
| Sub:                          | Environmental monitoring                                                                                                         |                   |
| Material:                     | Ambient Air                                                                                                                      |                   |
| Group:                        | Atmospheric Pollution                                                                                                            |                   |

Date of starting of Test 03.01.2024 CHEMICAL TEST RESULT

Date of completion of Test 04.01.2024

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                      |                      |                      |                      |                      |                      |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                      |                      |                      |                      |                      |                      |
|         |                                                              |                                 |                                     | AAQ-4 Haul Road (CZ)     | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) | AAQ-4 Haul Road (CZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date |                      |                      |                      |                      |                      |                      |
|         |                                                              |                                 |                                     | 25.12.23                 | 26.12.23             | 27.12.23             | 28.12.23             | 29.12.23             | 30.12.23             | 31.12.23             |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24               | 60 (µg/m <sup>3</sup> ) 24 Hrs.     | 56.31                    | 50.72                | 57.49                | 52.34                | 54.69                | 53.79                | 55.61                |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> ) 24 Hrs.    | 89.54                    | 86.23                | 90.88                | 84.13                | 87.36                | 88.21                | 85.73                |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 16.45                    | 14.16                | 17.62                | 15.21                | 14.57                | 17.43                | 18.22                |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> ) 24 Hrs.     | 21.64                    | 19.34                | 23.46                | 24.58                | 21.85                | 23.58                | 24.16                |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> ) 1 Hrs.       | 1.18                     | 1.22                 | 1.09                 | 1.18                 | 1.04                 | 0.98                 | 1.30                 |

Tested by:

A. Chatterjee

Authorized Signatory

P. Dutta (Technical Manager)

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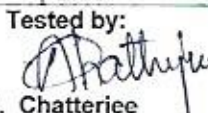
GSTIN : 19AAECS3740C2ZJ

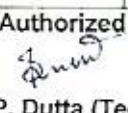
## TEST REPORT

|                               |                                                                                                                                  |                   |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------|
| REPORT NO. : N- 1055          | ULR-TC806624000000003F                                                                                                           | DATE - 04.01.2024 |
| Name and Address of Customer: | M/s. M.G. MOHANTY,<br>Patabeda Iron & Manganese Mines (14.000 Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                   |
| Work order No. and Date:      | MGM/VO/2023/24/11-164                                                                                                            | Dated:28/11/2023  |
| Sample receiving date:        | 26.12.2023                                                                                                                       |                   |
| Sub:                          | Environmental monitoring                                                                                                         |                   |
| Material:                     | Ambient Air                                                                                                                      |                   |
| Group:                        | Atmospheric Pollution                                                                                                            |                   |

Date of starting of Test 26.12.2023 CHEMICAL TEST RESULT Date of completion of Test 29.12.2023

| Sl. No. | Name of Tests                                                | Test Method                     | Permissible Limit as per NAAQS-2009 | Test Result              |                           |
|---------|--------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------|---------------------------|
|         |                                                              |                                 |                                     | NAME OF STATIONS         |                           |
|         |                                                              |                                 |                                     | AAQ-5<br>Ganua Camp (BZ) | AAQ-6<br>Guruda camp (BZ) |
|         |                                                              |                                 |                                     | Sampling Collection Date |                           |
|         |                                                              |                                 |                                     | 04.12.23                 | 18.12.23                  |
| 01      | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART-24                | 60 (µg/m <sup>3</sup> )<br>24 Hrs.  | 46.26                    | 46.72                     |
| 02      | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017 | 100 (µg/m <sup>3</sup> )<br>24 Hrs. | 72.38                    | 78.51                     |
| 03      | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017  | 80 (µg/m <sup>3</sup> )<br>24 Hrs.  | 11.59                    | 12.83                     |
| 04      | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017    | 80 (µg/m <sup>3</sup> )<br>24 Hrs.  | 18.42                    | 19.24                     |
| 05      | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009  | 4 (mg/m <sup>3</sup> )<br>1 Hrs.    | 0.86                     | 0.89                      |

Tested by:  
  
 A. Chatterjee

Authorized Signatory  
  
 P. Dutta (Technical Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                     |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------|
| ULR-TC806624000000004F        |                                                                                                                     |
| Report No.: N - 1056          | Date – 04.01.2024                                                                                                   |
| Name and Address of Customer: | M/s. M.G. MOHANTY,<br>Patabeda Iron Mines (14.000Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |
| Work Order No. and Date       | MGM/WO/2023/24/11-164 Dated:28/11/2023                                                                              |
| Date of Sample Received:      | 26.12.2023                                                                                                          |
| Sub:                          | Environment Monitoring                                                                                              |
| Material:                     | Fugitive Dust Emission                                                                                              |
| Group:                        | Atmospheric Pollution                                                                                               |

### FUGITIVE DUST EMISSION MONITORING CHEMICAL TEST

2Date of starting of test: 28.12.2023

Date of completion of test: 29.12.2023

| Sl. No. | Name of Tests                                   | Test Method                    | Permissible Limit as per OPCB     | Test Result              |
|---------|-------------------------------------------------|--------------------------------|-----------------------------------|--------------------------|
|         |                                                 |                                |                                   | NAME OF STATIONS         |
|         |                                                 |                                |                                   | FD-1<br>Screening Plant  |
|         |                                                 |                                |                                   | Sampling Collection Date |
|         |                                                 |                                |                                   | 13.12.2023               |
| 01      | Particulate Matter ( $\mu\text{g}/\text{m}^3$ ) | IS:5182, PART-4, 2006, RA-2012 | 1200 ( $\mu\text{g}/\text{m}^3$ ) | 732.6                    |

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TC-8066

## TEST REPORT

|                               |                          |                                                                                                                                  |  |
|-------------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------|--|
| REPORT NO. : N - 1057         |                          | ULR-TC806624000000005F                                                                                                           |  |
| Name and Address of Customer: |                          | DATE - 04.01.2024                                                                                                                |  |
|                               |                          | M/s. M.G. MOHANTY.<br>Patabeda Iron & Manganese Mines (14.000 Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |  |
| Ref. no. and Date:            | MGM/WO/2023/24/11-164    | Dated:28/11/2023                                                                                                                 |  |
| Sample receiving date:        | 26.12.2023               |                                                                                                                                  |  |
| Sub:                          | Environmental monitoring |                                                                                                                                  |  |
| Material:                     | Noise Monitoring         |                                                                                                                                  |  |
| Group:                        | Atmospheric Pollution    |                                                                                                                                  |  |

### TEST REPORT

| S. N. | Name of tests                    | Reference                  | Permissible limit as per Ambient Noise Level         |                     | Location Details (Core Zone) |               |               |                     |
|-------|----------------------------------|----------------------------|------------------------------------------------------|---------------------|------------------------------|---------------|---------------|---------------------|
| 1.    | Equivalent Sound level dB(A) Leq | SUP/SO P/4033S D & IS:9989 | Standard as per Noise Pollution Regulation Rule-2000 |                     | 1 <sup>st</sup> Week         |               |               |                     |
|       |                                  |                            | Category of area Zone                                | Limits in dB(A) Leq | N-1 Mines Quarry             | N-2 Haul Road | N-3 Work Shop | N-4 Screening Plant |
|       |                                  |                            |                                                      |                     | 01.12.2023                   | 01.12.2023    | 01.12.2023    | 01.12.2023          |
|       |                                  |                            |                                                      |                     | 68.2                         | 69.3          | 72.4          | 73.1                |
|       |                                  |                            |                                                      |                     |                              |               |               |                     |
|       |                                  |                            |                                                      |                     |                              |               |               |                     |
|       |                                  |                            |                                                      |                     |                              |               |               |                     |

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A. Chatterjee

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P. Dutta

(Technical Manager)

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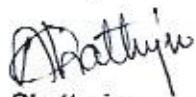
## TEST REPORT

|                               |                                                                                                                                   |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| ULR-TC806624000000005F        |                                                                                                                                   |
| REPORT NO. : N - 1057         | DATE - 04.01.2024                                                                                                                 |
| Name and Address of Customer: | M/s. M.G. MOHANTY,<br>Patabeda Iron & Manganese Mines ((14.000 Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |
| Ref. no. and Date:            | MGM/VO/2023/24/11-164 Dated:28/11/2023                                                                                            |
| Sample receiving date:        | 26.12.2023                                                                                                                        |
| Sub:                          | Environmental monitoring                                                                                                          |
| Material:                     | Noise Monitoring                                                                                                                  |
| Group:                        | Atmospheric Pollution                                                                                                             |

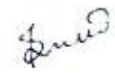
### TEST REPORT

| S. N. | Name of tests                    | Reference                  | Permissible limit as per:<br>Ambient Noise Level     |                     | Location Details (core zone) |                  |                  |                        |
|-------|----------------------------------|----------------------------|------------------------------------------------------|---------------------|------------------------------|------------------|------------------|------------------------|
| 1.    | Equivalent Sound level dB(A) Leq | SUP/SO P/4033S D & IS:9989 | Standard as per Noise Pollution Regulation Rule-2000 |                     | 2 <sup>nd</sup> Week         |                  |                  |                        |
|       |                                  |                            | Category of area Zone                                | Limits in dB(A) Leq | N-1<br>Mines Quarry          | N-2<br>Haul Road | N-3<br>Work Shop | N-4<br>Screening Plant |
|       |                                  |                            |                                                      |                     | 08.12.2023                   | 08.12.2023       | 08.12.2023       | 08.12.2023             |
|       |                                  |                            |                                                      |                     | 67.1                         | 70.0             | 71.3             | 72.2                   |
|       |                                  |                            |                                                      |                     |                              |                  |                  |                        |
|       |                                  |                            |                                                      |                     |                              |                  |                  |                        |
|       |                                  |                            |                                                      |                     |                              |                  |                  |                        |
|       |                                  |                            | 1. Industrial                                        | 75                  |                              |                  |                  |                        |
|       |                                  |                            | 2. Commercial                                        | 65                  |                              |                  |                  |                        |
|       |                                  |                            | 3. Residential                                       | 55                  |                              |                  |                  |                        |
|       |                                  |                            | 4. Silent                                            | 50                  |                              |                  |                  |                        |

Tested by:

  
A. Chatterjee

Authorized Signatory

  
P. Dutta

(Technical Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                                   |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| ULR-TC806624000000010F        |                                                                                                                                   |
| REPORT NO. : N - 1102         | DATE - 04.01.2024                                                                                                                 |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br>Patabeda Iron & Manganese Mines ((14.000 Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |
| Ref. no. and Date:            | MGM/WO/2023/24/11-164 Dated:28/11/2023                                                                                            |
| Sample receiving date:        | 03.01.2024                                                                                                                        |
| Sub:                          | Environmental monitoring                                                                                                          |
| Material:                     | Noise Monitoring                                                                                                                  |
| Group:                        | Atmospheric Pollution                                                                                                             |

## TEST REPORT

| S. N. | Name of tests                    | Reference                  | Permissible limit as per Ambient Noise Level         |                     | Location Details (core zone) |               |               |                     |
|-------|----------------------------------|----------------------------|------------------------------------------------------|---------------------|------------------------------|---------------|---------------|---------------------|
| 1.    | Equivalent Sound level dB(A) Leq | SUP/SO P/4033S D & IS:9989 | Standard as per Noise Pollution Regulation Rule-2000 |                     | 3rd Week                     |               |               |                     |
|       |                                  |                            | Category of area Zone                                | Limits in dB(A) Leq | N-1 Mines Quarry             | N-2 Haul Road | N-3 Work Shop | N-4 Screening Plant |
|       |                                  |                            |                                                      |                     | 15.12.2023                   | 15.12.2023    | 15.12.2023    | 15.12.2023          |
|       |                                  |                            |                                                      |                     | 68.5                         | 68.2          | 72.1          | 73.2                |
|       |                                  |                            |                                                      |                     |                              |               |               |                     |
|       |                                  |                            |                                                      |                     |                              |               |               |                     |
|       |                                  |                            | 1. Industrial                                        | 75                  |                              |               |               |                     |
|       |                                  |                            | 2. Commercial                                        | 65                  |                              |               |               |                     |
|       |                                  |                            | 3. Residential                                       | 55                  |                              |               |               |                     |
|       |                                  |                            | 4. Silent                                            | 50                  |                              |               |               |                     |

Tested by:

A. Chatterjee

Authorized Signatory

P. Dutta

(Technical Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                                   |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| ULR-TC806624000000010F        |                                                                                                                                   |
| REPORT NO. : N - 1102         | DATE - 04.01.2024                                                                                                                 |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br>Patabeda Iron & Manganese Mines ((14.000 Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |
| Ref. no. and Date:            | MGM/VO/2023/24/11-164 Dated:28/11/2023                                                                                            |
| Sample receiving date:        | 03.01.2024                                                                                                                        |
| Sub:                          | Environmental monitoring                                                                                                          |
| Material:                     | Noise Monitoring                                                                                                                  |
| Group:                        | Atmospheric Pollution                                                                                                             |

## TEST REPORT

| S. N. | Name of tests                    | Reference                  | Permissible limit as per:<br>Ambient Noise Level     |                     | Location Details (Core Zone) |                  |                  |                        |
|-------|----------------------------------|----------------------------|------------------------------------------------------|---------------------|------------------------------|------------------|------------------|------------------------|
| 1.    | Equivalent Sound level dB(A) Leq | SUP/SO P/4033S D & IS:9989 | Standard as per Noise Pollution Regulation Rule-2000 |                     | 4 <sup>th</sup> Week         |                  |                  |                        |
|       |                                  |                            | Category of area Zone                                | Limits in dB(A) Leq | N-1<br>Mines Quarry          | N-2<br>Haul Road | N-3<br>Work Shop | N-4<br>Screening Plant |
|       |                                  |                            |                                                      |                     | 22.12.2023                   | 22.12.2023       | 22.12.2023       | 22.12.2023             |
|       |                                  |                            |                                                      |                     | 66.2                         | 67.5             | 72.4             | 71.0                   |
|       |                                  |                            |                                                      |                     |                              |                  |                  |                        |
|       |                                  |                            |                                                      |                     |                              |                  |                  |                        |
|       |                                  |                            |                                                      |                     |                              |                  |                  |                        |
|       |                                  |                            | 1. Industrial                                        | 75                  |                              |                  |                  |                        |
|       |                                  |                            | 2. Commercial                                        | 65                  |                              |                  |                  |                        |
|       |                                  |                            | 3. Residential                                       | 55                  |                              |                  |                  |                        |
|       |                                  |                            | 4. Silent                                            | 50                  |                              |                  |                  |                        |

Tested by:

A. Chatterjee

Authorized Signatory

P. Dutta  
(Technical Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                                   |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| ULR-TC806624000000010F        |                                                                                                                                   |
| REPORT NO. : N - 1102         | DATE - 04.01.2024                                                                                                                 |
| Name and Address of Customer: | M/s. M.G. MOHANTY,<br>Patabeda Iron & Manganese Mines ((14.000 Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |
| Ref. no. and Date:            | MGM/WO/2023/24/11-164 Dated:28/11/2023                                                                                            |
| Sample receiving date:        | 03.01.2023                                                                                                                        |
| Sub:                          | Environmental monitoring                                                                                                          |
| Material:                     | Noise Monitoring                                                                                                                  |
| Group:                        | Atmospheric Pollution                                                                                                             |

## TEST REPORT

| S. N. | Name of tests                    | Reference                  | Permissible limit as per:<br>Ambient Noise Level     |                     | Location Details (core zone) |                  |                 |                      |
|-------|----------------------------------|----------------------------|------------------------------------------------------|---------------------|------------------------------|------------------|-----------------|----------------------|
| 1.    | Equivalent Sound level dB(A) Leq | SUP/SO P/4033S D & IS:9989 | Standard as per Noise Pollution Regulation Rule-2000 |                     | 5 <sup>th</sup> Week         |                  |                 |                      |
|       |                                  |                            | Category of area Zone                                | Limits in dB(A) Leq | N-1<br>Mines Quarry          | N-2<br>Haul Road | N-3<br>D.G. Set | N-4<br>Crusher Plant |
|       |                                  |                            |                                                      |                     | 29.12.2023                   | 29.12.2023       | 29.12.2023      | 29.12.2023           |
|       |                                  |                            |                                                      |                     | 67.3                         | 69.2             | 71.0            | 73.3                 |
|       |                                  |                            |                                                      |                     |                              |                  |                 |                      |
|       |                                  |                            |                                                      |                     |                              |                  |                 |                      |
|       |                                  |                            |                                                      |                     |                              |                  |                 |                      |
|       |                                  |                            | 1. Industrial                                        | 75                  |                              |                  |                 |                      |
|       |                                  |                            | 2. Commercial                                        | 65                  |                              |                  |                 |                      |
|       |                                  |                            | 3. Residential                                       | 55                  |                              |                  |                 |                      |
|       |                                  |                            | 4. Silent                                            | 50                  |                              |                  |                 |                      |

Tested by:

A. Chatterjee

Authorized Signatory

P. Dutta

(Technical Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                                  |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| ULR-TC806624000000010F        |                                                                                                                                  |
| REPORT NO. : N- 1102          | DATE: 04.01.2024                                                                                                                 |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br>Patabeda Iron & Manganese Mines (14.000 Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |
| Ref. no. and Date:            | MGM/WO/2023/24/11-164 Dated:28/11/2023                                                                                           |
| Sample receiving date:        | 03.01.2024                                                                                                                       |
| Sub:                          | Environmental monitoring                                                                                                         |
| Material:                     | Noise Monitoring                                                                                                                 |
| Group:                        | Atmospheric Pollution                                                                                                            |

## TEST REPORT

| S.N. | Name of tests                          | Reference                       | Permissible limit as per:<br>Ambient Noise Level            |                        | Location Details (Buffer zone)          |                                          |
|------|----------------------------------------|---------------------------------|-------------------------------------------------------------|------------------------|-----------------------------------------|------------------------------------------|
| 1.   | Equivalent<br>Sound level<br>dB(A) Leq | SUP/SOP/4<br>033SD &<br>IS:9989 | Standard as per Noise<br>Pollution Regulation Rule-<br>2000 |                        | N- 5<br><u>Ganua camp</u><br>04.12.2023 | N- 6<br><u>Garuda camp</u><br>18.12.2023 |
|      |                                        |                                 | Category of<br>area Zone                                    | Limits in<br>dB(A) Leq | Quarterly Report                        |                                          |
|      |                                        |                                 | 1. Industrial                                               | 75                     | 44.1                                    | 43.2                                     |
|      |                                        |                                 | 2. Commercial                                               | 65                     |                                         |                                          |
|      |                                        |                                 | 3. Residential                                              | 55                     |                                         |                                          |
|      |                                        |                                 | 4. Silent                                                   | 50                     |                                         |                                          |

Tested by:

A. Chatterjee

Authorized Signatory

P. Dutta

(Technical Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                  |                  |
|-------------------------------|------------------------------------------------------------------------------------------------------------------|------------------|
| Report No N - 1059            | ULR-TC806624000000007F                                                                                           | DATE -04.01.2024 |
| Name and Address of Customer: | M/s. M.G. MOHANTY, Patabeda Iron Mines (14.000Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                  |
| Work-order no. and Date:      | MGM/WO/2023/24/11-164                                                                                            | Dated:28/11/2023 |
| Sample receiving date:        | 26.12.2023                                                                                                       |                  |
| Sub:                          | Water monitoring                                                                                                 |                  |
| Material:                     | Surface Water                                                                                                    |                  |
| Group:                        | Water                                                                                                            |                  |

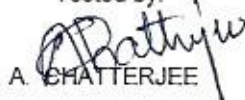
### CHEMICAL REPORT

Date of starting of Test 27.12.2023

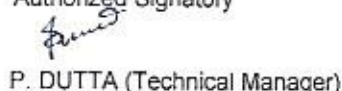
Date of completion of Test: 03.01.2024

| Sl. No. | Specific Test Performed                  | Test Method                          | Test Result                             |                                           |
|---------|------------------------------------------|--------------------------------------|-----------------------------------------|-------------------------------------------|
|         |                                          |                                      | SW1<br>Up-Stream<br>(Kakarpani Nallaha) | SW2<br>Down-Stream<br>(Kakarpani Nallaha) |
|         |                                          |                                      | Date of Collection<br>13.12.2023        | Date of collection<br>13.12.2023          |
| 1       | pH                                       | IS :3025,P-11, R.A 2009              | 6.8                                     | 6.8                                       |
| 2       | Turbidity(NTU)                           | IS 3025 (P-10), RA2006               | 6.0                                     | 8.0                                       |
| 3       | Alkalinity as CaCo <sub>3</sub> mg/l     | IS 3025 (P-23), RA2014               | 20                                      | 16                                        |
| 4       | Chloride as Cl mg/l                      | IS 3025 (P-32), RA2009               | 4                                       | 4                                         |
| 5       | Total Hardness as CaCo <sub>3</sub> mg/l | IS 3025 (P-21), RA2006               | 32                                      | 48                                        |
| 6       | Calcium as Ca mg/l                       | APHA 23rd EDN 3500Ca B               | 10                                      | 06                                        |
| 7       | Magnesium as Mg mg/l                     | APHA 23rd EDN 3500 Mg B              | 2                                       | 8                                         |
| 8       | Sulphate as So <sub>4</sub> mg/l         | APHA 23rd EDN 4500 SO <sub>4</sub> E | <1.0                                    | <1.0                                      |
| 9       | Nitrate as No <sub>3</sub> mg/l          | APHA 23rd EDN 4500 NO <sub>3</sub> B | 3.9                                     | 4.2                                       |
| 10      | Fluoride as F mg/l                       | APHA 23rd EDN 4500 F D               | <0.1                                    | <0.1                                      |
| 11      | Total dissolve Solids mg/l               | IS 3025 (P-16), RA2012               | 31                                      | 31                                        |
| 12      | Total Suspended Solids mg/l              | APHA 23rd EDN 2540 D                 | 3.0                                     | 1.0                                       |
| 13      | D.O.                                     | APHA 23rd EDN 4500 O-C               | 2.8                                     | 3.6                                       |
| 14      | Iron as Fe mg/l                          | APHA 23rd EDN 3111 B                 | 0.211                                   | 0.285                                     |
| 15      | Copper as Cu mg/l                        | APHA 23rd EDN 3111 B & C             | <0.05                                   | <0.05                                     |
| 16      | Zinc as Zn mg/l                          | APHA 23rd EDN 3111 B & C             | <0.01                                   | <0.01                                     |
| 17      | Lead as Pb mg/l                          | APHA 23rd EDN 3120 B                 | <0.01                                   | <0.01                                     |
| 18      | Cadmium as Cd mg/l                       | APHA 23rd EDN 3111 B & C             | <0.01                                   | <0.01                                     |
| 19      | Arsenic as As mg/l                       | APHA 23rd EDN 3120 B                 | <0.01                                   | <0.01                                     |
| 20      | Mercury as Hg mg/l                       | IS 3025 (P-48)MURCURY ANALYSER       | <0.05                                   | <0.001                                    |
| 21      | Chromium as Cr +6mg/l                    | APHA 23rd EDN 3500 B                 | <0.05                                   | <0.05                                     |
| 22      | Phenolic compound mg/l                   | APHA 23rd EDN 5530 D                 | <0.002                                  | <0.002                                    |

Tested by:

  
A. CHATTERJEE

Authorized Signatory

  
P. DUTTA (Technical Manager)

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GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                     |                   |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------|-------------------|
| Report No. N- 1059            |                                                                                                                     | DATE - 04.01.2024 |
| Name and Address of Customer: | M/s. M.G. MOHANTY,<br>Patabeda Iron Mines (14.000Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                   |
| Work-order no. and Date:      | MGM/WO/2023/24/11-164                                                                                               | Dated:28/11/2023  |
| Sample receiving date:        | 26.12.2023                                                                                                          |                   |
| Sub:                          | Water monitoring                                                                                                    |                   |
| Material:                     | Surface Water                                                                                                       |                   |
| Group:                        | Water                                                                                                               |                   |

Date of starting of Test 27.12.2023

### CHEMICAL REPORT

Date of completion of test : 03.01.2024

| Sl. No. | Specific Test Performed     | Test Method                                      | Test Result                             |                                           |
|---------|-----------------------------|--------------------------------------------------|-----------------------------------------|-------------------------------------------|
|         |                             |                                                  | SW1<br>Up-Stream<br>(Kakarpani Nallaha) | SW2<br>Down-Stream<br>(Kakarpani Nallaha) |
|         |                             |                                                  | Date of Collection<br>13.12.2023        | Date of Collection<br>13.12.2023          |
| 23      | Temperature                 | APHA 23 <sup>rd</sup> EDN 2550 B                 | 17°C                                    | 17°C                                      |
| 24      | Residual Free Chlorine mg/l | IS 3025 (P-26), RA2009                           | <1.0                                    | <1.0                                      |
| 25      | COD mg/l                    | APHA 23 <sup>rd</sup> EDN 5220 B                 | 4.0                                     | 8.0                                       |
| 26      | Oil and Grease mg/l         | IS 3025 (P-39), RA2009                           | <0.1                                    | <0.1                                      |
| 27      | Aluminium as Al mg/l        | APHA 23 <sup>rd</sup> EDN 3500 Al-B              | 0.126                                   | 0.226                                     |
| 28      | Boron as B mg/l             | APHA 23 <sup>rd</sup> EDN 4500 B-B               | <1.0                                    | <1.0                                      |
| 29      | Manganese as Mn mg/l        | APHA 23 <sup>rd</sup> EDN 3111 B                 | <0.05                                   | <0.05                                     |
| 30      | Nickel as Ni mg/l           | APHA 23 <sup>rd</sup> EDN 3111 B & C             | <0.02                                   | <0.02                                     |
| 31      | Cyanide as CN mg/l          | APHA 23 <sup>rd</sup> EDN 4500 E                 | <0.05                                   | <0.05                                     |
| 32      | Sulphide as S mg/l          | APHA 23 <sup>rd</sup> EDN 4500 S <sup>2</sup> -F | N.T                                     | N.T                                       |
| 33      | Free Ammonia as N mg/l      | IS 3025 (P-34)                                   | N.T                                     | N.T                                       |
| 34      | Kjeldahl Nitrogen as N mg/l | IS 3025 (P-34)                                   | 5.0                                     | 7.0                                       |
| 35      | Ammonia as N mg/l           | IS 3025 (P-34)                                   | <0.02                                   | <0.02                                     |

Tested by:

A. CHATTERJEE

Authorized Signatory

P. DUTTA (Technical Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                                      |                                                                                                                     |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| ULR-TC806624000000006F               |                                                                                                                     |
| <b>Report No. N- 1058</b>            | <b>Date: 04.01.2024</b>                                                                                             |
| <b>Name and Address of Customer:</b> | M/s. M.G. MOHANTY.<br>Patabeda Iron Mines (14.000Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |
| <b>Work-order no. and Date:</b>      | MGM/WO/2023/24/11-164 Dated:28/11/2023                                                                              |
| <b>Sample receiving date:</b>        | 26.12.2023                                                                                                          |
| <b>Sub:</b>                          | Water monitoring                                                                                                    |
| <b>Material:</b>                     | Ground Water.                                                                                                       |
| <b>Group:</b>                        | Water                                                                                                               |

## CHEMICAL REPORT

Date of starting of Test 27.12.2023

Date of completion of Test:03.01.2024

| Sl. No. | Specific Test Performed                                   | Test Method                             | Permissible limit<br>IS:10500/2<br>012<br>( max) | Test Result<br>GW-1<br>Mines,( Bore Well)<br>Date of Collection<br>14.12.2023 |
|---------|-----------------------------------------------------------|-----------------------------------------|--------------------------------------------------|-------------------------------------------------------------------------------|
| 1       | pH                                                        | IS :3025,P-11, R.A 2009                 | 6.5 – 8.5                                        | 6.6                                                                           |
| 2       | Colour(Hazen unit)                                        | APHA, 23rd Edn, 2120 B                  | 15                                               | <1.0                                                                          |
| 3       | Total Hardness as CaCO <sub>3</sub> ,mg/l                 | IS 3025 (P-21), R.A. 2006               | 600                                              | 48                                                                            |
| 4       | Alkalinity as CaCO <sub>3</sub> ,mg/l                     | IS 3025 (P-23), R.A. 2014               | 600                                              | 44                                                                            |
| 5       | Chlorides as Cl <sup>-</sup> , mg/l                       | IS 3025, P-32                           | 1000                                             | 4                                                                             |
| 6       | Calcium as Ca, mg/l                                       | APHA 23rd EDN 3500 Ca B                 | 200                                              | 6                                                                             |
| 7       | Magnesium as Mg, mg/l                                     | APHA 23rd EDN 3500 Mg B                 | 100                                              | 8                                                                             |
| 8       | Residual Free Chlorine, mg/l                              | IS 3025, P-34                           | 1.0                                              | <1.0                                                                          |
| 9       | Sulphate as SO <sub>4</sub> ,mg/l                         | APHA, 23rd Edn, 4500 SO <sub>4</sub> E  | 400                                              | <1.0                                                                          |
| 10      | Nitrate as NO <sub>3</sub> , mg/l                         | APHA, 23rd Edn, 4500 NO <sub>3</sub> -B | 45                                               | 2.8                                                                           |
| 11      | Iron as Fe,mg/l                                           | APHA, 23rd Edn, 3111 B                  | 0.3                                              | <0.05                                                                         |
| 12      | Copper as Cu,mg/l                                         | APHA, 23rd Edn, 3111 B & C              | 1.5                                              | <0.05                                                                         |
| 13      | Manganese as Mn,mg/l                                      | APHA, 23rd Edn, 3111 B                  | 0.3                                              | <0.03                                                                         |
| 14      | Phenolic Compounds C <sub>6</sub> H <sub>5</sub> OH, mg/l | APHA, 23rd Edn, 5530 D                  | 0.002                                            | <0.002                                                                        |
| 15      | Zinc as Zn, mg/l                                          | APHA, 23rd Edn, 3111 B & C              | 15.0                                             | <0.01                                                                         |
| 16      | Cadmium as Cd, mg/l                                       | APHA, 23rd Edn, 3111 B & C              | 0.003                                            | <0.003                                                                        |
| 17      | Arsenic as As, mg/l                                       | APHA, 23rd Edn, 3120 B                  | 0.05                                             | <0.05                                                                         |
| 18      | Cyanide as CN, mg/l                                       | APHA, 23rd Edn, 4500 E                  | 0.05                                             | <0.05                                                                         |
| 19      | Lead as pb                                                | —                                       | —                                                | 0.268                                                                         |
| 20      | Fluoride as F, mg/l                                       | APHA, 23rd Edn, 4500 F – D              | 1.5                                              | <0.01                                                                         |
| 21      | Total Dissolved solids (mg/l)                             | IS :3025, P-16, RA-2012                 | 2000                                             | 56                                                                            |
| 22      | Aluminium as Al mg/l                                      | APHA 23rd Edn 3500 Al-B                 | 0.2                                              | <0.2                                                                          |
| 23      | Boron as B mg/l                                           | APHA 23rd Edn 4500 B-B                  | 1.0                                              | <1.0                                                                          |
| 24      | Mercury as Hg, mg/l                                       | IS 3025, P-48, Mercury Analyser         | 0.001                                            | <0.001                                                                        |
| 25      | Turbidity (NTU)                                           | IS 3025 (P-10), R.A. 2006               | 5                                                | <1.0                                                                          |
| 26      | Total Chromium as Cr <sup>+6</sup> , mg/l                 | APHA, 23rd Edn, 3500 B                  | 0.05                                             | <0.05                                                                         |

Tested by

A. CHATTERJEE

Authorised Signatory

P. DUTTA (Technical Manager)

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# SUPERINTENDENCE COMPANY OF INDIA PRIVATE LIMITED

## LABORATORY :

PLOT NO. Y-23, BLOCK-EP, SECTOR-V, SALT LAKE CITY, KOLKATA-700 091  
☎ : (033) 2357-4671 / 4681 / 5039 / 5042 • Fax : (033) 2357- 4806  
E-mail : supind2019@gmail.com / supInd50@yahoo.co.in  
Website : www.superintendencecoindia.com



(An ISO 9001 : 2015 Certified)

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                     |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Report No. N- 1058            |                                                                                                                     |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br>Patabeda Iron Mines (14.000Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |
| Work-order no. and Date:      | MGM/WO/2023/24/11-164 Dated:28/11/2023                                                                              |
| Sample receiving date:        | 26.12.2023                                                                                                          |
| Sub:                          | Water monitoring                                                                                                    |
| Material:                     | Drinking Water.                                                                                                     |
| Group:                        | Water                                                                                                               |

Date of starting of Test 27.12.2023

## CHEMICAL REPORT

Date of completion of Test: 03.01.2024

| Sl. No. | Specific Test Performed | Test Method               | Permissible limit<br>IS:10500/2012<br>( max)) | Test Result                                                |
|---------|-------------------------|---------------------------|-----------------------------------------------|------------------------------------------------------------|
|         |                         |                           |                                               | GW1<br>Mines,( Bore Well)<br>Date of Collection 14.12.2023 |
| 27      | Temperature °C          | APHA, 23rd Edn, 2550 B    | -                                             | 16 °C                                                      |
| 28      | Mineral oil ,mg/l       | IS :3025,P-39, R.A 2009   | 0.5                                           | <0.5                                                       |
| 29      | Odour                   | IS 3025 (P-06), R.A. 1983 | Agreeable                                     | Agreeable                                                  |
| 30      | Taste                   | IS 3025 (P-07), R.A. 1984 | Agreeable                                     | Agreeable                                                  |

Tested by:

A. CHATTERJEE

Authorised Signatory

P. Dutta (Technical Manager)

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**GSTIN : 19AAECS3740C2ZJ**

## TEST REPORT

|                                      |                                                                                                                              |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>Report No. N- 1058</b>            | <b>Date: 04.01.2024</b>                                                                                                      |
| <b>Name and Address of Customer:</b> | <i>M/s. M.G. MOHANTY,<br/>Patabeda Iron Mines (14.000Ha)<br/>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha</i> |
| <b>Work-order no. and Date:</b>      | <b>MGM/WO/2023/24/11-164 Dated:28/11/2023</b>                                                                                |
| <b>Sample receiving date:</b>        | 26.12.2023                                                                                                                   |
| <b>Sub:</b>                          | Water monitoring                                                                                                             |
| <b>Material:</b>                     | Drinking Water.                                                                                                              |

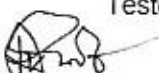
### TEST RESULT OF BACTERIOLOGICAL

Date of starting of Test: 27.12.2023

Date of completion of Test: 03.01.2024

| Sl. No. | Specific Test Performed     | Test Method        | Permissible Limits as per 10500:2012     | Test Result                   |
|---------|-----------------------------|--------------------|------------------------------------------|-------------------------------|
|         |                             |                    |                                          | <b>GW1 Mines,( Bore Well)</b> |
|         |                             |                    |                                          | Date of Collection 14.12.2023 |
| 1       | Coliform Organism / 100 ml. | As per IS: 1622-81 | Shall not be detectable in 100 ml sample | Not found / 100ml             |
| 2       | E. Coli / 100ml.            |                    | Shall not be detectable in 100 ml sample | Not found / 100ml             |

Tested by:

  
R Dasgupta

  
H. Ray

Authorised Signatory

  
P. Dutta (Technical Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                     |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------|
| ULR-TC806624000000008F        |                                                                                                                     |
| Report No. N- 1060            | Date 04.01.2024                                                                                                     |
| Name and Address of Customer: | M/s. M.G. MOHANTY,<br>Patabeda Iron Mines (14.000Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |
| Work-order no. and Date:      | MGM/VO/2023/24/11-164 Dated:28/11/2023                                                                              |
| Sample receiving date:        | 26.12.2023                                                                                                          |
| Sub:                          | EFFLUENT WATER REPORT (ETP, STP OUTLET)                                                                             |
| Material:                     | Effluent Water                                                                                                      |
| Group:                        | Pollution and environment                                                                                           |

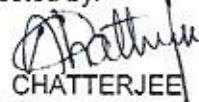
### CHEMICAL REPORT

Date of starting of Test 27.12.2023

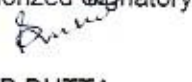
Date of completion of Test: 03.01.2024

| Sl. No. | Name of Parameter                              | Test Methods                | CPCB Prescribed Limit for Inland Surface water (Max) |         | Results              |                      |
|---------|------------------------------------------------|-----------------------------|------------------------------------------------------|---------|----------------------|----------------------|
|         |                                                |                             | ETP                                                  | STP     | ETP -14 Outlet Water | STP- 14 Outlet Water |
|         |                                                |                             |                                                      |         | Date of Collection   | Date of Collection   |
| 1       | pH                                             | IS 3025(P-11) R.A.2009      | 5.5-9.0                                              | 5.5-9.0 | 7.2 at 17°C          | 7.8 at 20°C          |
| 2       | Total Dissolve Solids mg/l                     | IS 3025(P-16) R.A.2006      | N/S                                                  | 2100    | 297                  | 206                  |
| 3       | Total suspended solids mg/l                    | IS 3025(P-17) 1984 R.A.2012 | 100                                                  | 200     | 6.0                  | 8.0                  |
| 4       | Chemical Oxygen Demand mg/l                    | APHA 23rd EDN 5220 B        | 250                                                  | N/S     | 4.0                  | 40                   |
| 5       | Bio Chemical Oxygen Demand 3 days at 27°C mg/l | IS 3025(P-44),1993 R.A 1999 | 30                                                   | 30      | <3.0                 | <3.0                 |
| 6       | Oil and Grease mg/l                            | IS 3025(P-39), R.A.2009     | 10                                                   | N/S     | 4.6                  | N/R                  |
| 7       | Iron as Fe mg/l                                | APHA 23rd EDN 3111 B        | 3.0                                                  | 3.0     | 1.2                  | 0.362                |
| 8       | Manganese as Mn mg/l                           | APHA 23rd EDN 3111 B        | 2.0                                                  | 2.0     | <0.03                | <0.03                |
| 9       | Chloride as Cl mg/l                            | IS 3025, P-32               | N/S                                                  | N/S     | N/R                  | 24                   |

Tested by:

  
A. CHATTERJEE

Authorized Signatory

  
P.DUTTA  
(Technical Manager)

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# SUPERINTENDENCE COMPANY OF INDIA PRIVATE LIMITED

## LABORATORY :

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Website : www.superintendencecoindia.com



[An ISO 9001 : 2015 Certified]

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                     |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Report No. N- 1060            | Date 04.01.2024                                                                                                     |
| Name and Address of Customer: | M/s. M.G. MOHANTY,<br>Patabeda Iron Mines (14.000Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |
| Work-order no. and Date:      | MGM/WO/2023/24/11-164 Dated:28/11/2023                                                                              |
| Sample receiving date:        | 26.12.2023                                                                                                          |
| Sub:                          | EFFLUENT WATER MONITORING REPORT (STP OUTLET)                                                                       |
| Material:                     | Effluent Water Monitoring                                                                                           |
| Group:                        | Pollution and environment                                                                                           |

### TEST RESULT OF BACTERIOLOGICAL

| Date of starting of Test: 27.12.2023 |                          | Date of completion of Test 03.01.2024 |                                |                                          |
|--------------------------------------|--------------------------|---------------------------------------|--------------------------------|------------------------------------------|
| Sl. No.                              | Specific Test Performed  | Test Method                           | Permissible Limits as per OPCB | Test Result                              |
|                                      |                          |                                       |                                | STP 14 Out-let Water<br>DATE- 14.12.2023 |
| 1                                    | Fecal Coliform (MPN/100) | As per IS: 1622-1981                  | <1000                          | 800cfu/100ml                             |

Tested by:

Authorised Signatory

R. Dasgupta

H. Ray

P. DUTTA  
(Technical Manager)

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**SUPERINTENDENCE CO. OF INDIA (P) LTD.**

**ENVIRONMENTAL BASELINE DATA GENERATION  
AT**

**M/S – M.G.MOHANTY**

**PROJECT: Patabeda Iron & Manganese Mines (14.000 Ha)**

**REPORT  
FOR THE MONTH OF NOVEMBER 2023**

\*\*\*\*\*

**Branch Office :** AT/P.O : NALDA , DIST : KEONJHAR, ODISHA – 758 042  
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E-mail: supindnalda@rediffmail.com

**Regional Office:** Plot No.: Y23, Block EP, Sector V, Salt Lake City-7000 91  
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Fax: 033- 2357-4806  
E-mail: supindkolkata@vsnl.net / supind50yahoo.co.in  
Website: www.superintendence.co

**Regd. Office:** “Everest House”, 7<sup>th</sup> floor, 46C, Chowringhee Road,  
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Website: www.superintendence.co





# SUPERINTENDENCE COMPANY OF INDIA PRIVATE LIMITED

(An ISO 9001 : 2015 Certified)

Regional office : Plot No. Y-23, Block-EP, Sector-V, Salt Lake City, Kolkata-700 091, Phone : (033) 2357-4671/4681/4873/5039/5042  
Fax : (033) 2357-4806, E-mail : supind2019@gmail.com, supind50@yahoo.co.in, Website : www.superintendencecoindia.com

Ref.: SUENV/. M.G. MOHANTY(14.000 Ha) /KB /301

Date: 04.12.2023

To  
**The Mines Manager,**  
M/s. M.G. Mohanty.  
Patabeda Iron Mines (14.000 Ha)  
Patabeda, P.O. Malda, P.S. Koira,  
Dist.: Sundergarh, Odisha

Sub: Submission of Test Report for the Month of **NOVEMBER 2023**

Work Order no & Dated.: MGM/CO/2021/217 Dated:- 12/03 /2021

Dear Sir,

We are submitting herewith test reports for the month of **NOVEMBER 2023** as follows:

- Ambient Air Monitoring (5 Parameters).
- Fugitive Dust
- Noise Monitoring
- Surface Water Quality

Thanking you,

With Regards,

**Superintendence Co. of India (P) Ltd.**

**S. Paul**

**(ADDL DIRECTOR)**

**Encls as above**

Regd. office : P.O. - EARTH HOUSE, 1/2C, Chowringhee Road, Kolkata-700 071, Tele/Fax : (033) 2288-9015, E-mail : supind2019@gmail.com, supind50@yahoo.co.in

Website : www.superintendencecoindia.com

Mumbai : "LAXMI BHAWAN", 161, P. D. Mello Road, Mumbai-400 001, Phone : (022) 2261-1244, Fax : (022) 2261-5289, E-mail : supindbombay@gmail.com

Delhi : 203, "AGARWAL BHAWAN", 35-36, Nehru Place, New Delhi-110 019, Tele/Fax : (011) 2647-5066 E-mail : supind50@yahoo.co.in

Chennai : 138, Angappa Naicken Street, Chennai-600 001, Phone : (044) 2522-9885/6192, Fax : (044) 2522-1612, E-mail : supindchennai@rediffmail.com



TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                              |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| ULR-TC806623000001337F        |                                                                                                                              |
| REPORT NO. : N- 937           | DATE - 04.12.2023                                                                                                            |
| Name and Address of Customer: | M/s. M.G. MOHANTY,<br>Patabeda Iron Mines ( <b>14.000Ha</b> )<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |
| Ref. no. and Date:            | MGM/CO/2021/217 Dated:12/03/2021                                                                                             |
| Sample receiving date:        | 28.11.2023                                                                                                                   |
| Sub:                          | Environmental monitoring                                                                                                     |
| Material:                     | Ambient Air                                                                                                                  |
| Group:                        | Atmospheric Pollution                                                                                                        |

### CHEMICAL TEST RESULT

Date of starting of Test: 28.11.2023

Date of completion of Test: 02.12.2023

| S.N. | Specific Test Performed                                      | Test Method Specification against which tests are performed | Permissible limit as per NAAQS-2009 | Test Results               |                                   |                          |                           |
|------|--------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------|----------------------------|-----------------------------------|--------------------------|---------------------------|
|      |                                                              |                                                             |                                     | Core Zone                  |                                   | Buffer Zone              |                           |
|      |                                                              |                                                             |                                     | Mines Quarry<br>10.11.2023 | Near weight bridge.<br>10.11.2023 | Ganua Camp<br>10.11.2023 | Guruda camp<br>10.11.2023 |
| 1.   | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24                                           | 60 (µg/m <sup>3</sup> )<br>24 Hrs.  | 44.61                      | 46.72                             | 39.24                    | 37.48                     |
| 2.   | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017                             | 100 (µg/m <sup>3</sup> )<br>24 Hrs. | 74.56                      | 78.19                             | 68.34                    | 64.57                     |
| 3    | Suspended Particulate Matter SPM (µg/m <sup>3</sup> )        | IS: 5182 PART-4, 1999 RA-2010                               | -                                   | 154.80                     | 161.67                            | 140.76                   | 134.29                    |
| 4    | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017                              | 80 (µg/m <sup>3</sup> )<br>24 Hrs.  | 11.42                      | 12.35                             | 10.87                    | 10.68                     |
| 5    | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART- 6,2006, RA-2017                               | 80 (µg/m <sup>3</sup> )<br>24 Hrs.  | 20.36                      | 22.73                             | 18.58                    | 17.49                     |
| 6.   | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009                              | 4 (mg/m <sup>3</sup> )<br>1 Hrs.    | 0.83                       | 0.86                              | 0.78                     | 0.74                      |

Tested by:



A. Chatterjee

Authorized Signatory



P. Dutta (Technical Manager)

Note: 1) This report refers to the values obtained at the time of testing and results relate to the items tested.  
2) This Report shall not be reproduced in part or full without written permission of the management.  
3) Liability for return of samples ceases after 15 days from the date of test report.





# SUPERINTENDENCE COMPANY OF INDIA PRIVATE LIMITED

LABORATORY :

PLOT NO. Y-23, BLOCK-EP, SECTOR-V, SALT LAKE CITY, KOLKATA-700 091

☎ : (033) 2357-4671 / 4681 / 5039 / 5042 • Fax : (033) 2357- 4806

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Website : www.superintendencecoindia.com



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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                        |                                                                                                                     |  |
|-------------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------|--|
| Report No.: N - 938           |                        | ULR-TC806623000001335F                                                                                              |  |
| Name and Address of Customer: |                        | Date - 04.12.2023                                                                                                   |  |
|                               |                        | M/s. M.G. MOHANTY,<br>Patabeda Iron Mines (14.000Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |  |
| Work Order No. and Date       | MGM/CO/2021/217        | Dated: 12/03/2021                                                                                                   |  |
| Date of Sample Received:      | 28.11.2023             |                                                                                                                     |  |
| Sub:                          | Environment Monitoring |                                                                                                                     |  |
| Material:                     | Fugitive Dust Emission |                                                                                                                     |  |
| Group:                        | Atmospheric Pollution  |                                                                                                                     |  |

### FUGITIVE DUST EMISSION MONITORING CHEMICAL TEST

2 Date of starting of test: 28.11.2023

Date of completion of test: 02.12.2023

| Sl. No. | Name of Tests                                   | Test Method                    | Permissible Limit as per OPCB     | Test Result              |
|---------|-------------------------------------------------|--------------------------------|-----------------------------------|--------------------------|
|         |                                                 |                                |                                   | NAME OF STATIONS         |
|         |                                                 |                                |                                   | FD-1<br>Screening Plant  |
|         |                                                 |                                |                                   | Sampling Collection Date |
|         |                                                 |                                |                                   | 10.11.2023               |
| 01      | Particulate Matter ( $\mu\text{g}/\text{m}^3$ ) | IS:5182, PART-4, 2006, RA-2012 | 1200 ( $\mu\text{g}/\text{m}^3$ ) | 746.46                   |

Tested by:

A. Chatterjee

Authorized Signatory

P. Dutta (Technical Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                     |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------|
| ULR-TC806623000001338F        |                                                                                                                     |
| REPORT NO. : N- 939           | DATE - 04.12.2023                                                                                                   |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br>Patabeda Iron Mines (14.000Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |
| Ref. no. and Date:            | MGM/CO/2021/217 Dated: 12/03/2021                                                                                   |
| Sample receiving date:        | 28.11.2023                                                                                                          |
| Sub:                          | Environmental monitoring                                                                                            |
| Material:                     | Work zone Noise                                                                                                     |
| Group:                        | Atmospheric Pollution                                                                                               |

## TEST REPORT

TEST REPORT

| S. N. | Name of tests                    | Reference                       | Permissible limit as per:<br>Ambient Noise Level     |                     | Test Results                               |
|-------|----------------------------------|---------------------------------|------------------------------------------------------|---------------------|--------------------------------------------|
| 1.    | Equivalent Sound level dB(A) Leq | SUP/SOP/403<br>3SD &<br>IS:9989 | Standard as per Noise Pollution Regulation Rule-2000 |                     | Mines Quarry (Core zone)<br><br>11.11.2023 |
|       |                                  |                                 | Category of area Zone                                | Limits in dB(A) Leq | 72.2                                       |
|       |                                  |                                 | 1. Industrial                                        | 75                  |                                            |
|       |                                  |                                 | 2. Commercial                                        | 65                  |                                            |
|       |                                  |                                 | 3. Residential                                       | 55                  |                                            |
|       |                                  |                                 | 4. Silent                                            | 50                  |                                            |
|       |                                  |                                 | Tested by:                                           |                     |                                            |

Tested by:

A. Chatterjee

Authorized Signatory

P. Dutta

(Technical Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                  |                         |
|-------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------|
| <b>Report No N - 940</b>      | <b>ULR-TC806623000001255F</b>                                                                                    | <b>DATE -04.12.2023</b> |
| Name and Address of Customer: | M/s. M.G. MOHANTY. Patabeda Iron Mines (14.000Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                         |
| Work-order no. and Date:      | MGM/CO/2021/217                                                                                                  | Dated: 12/03/2021       |
| Sample receiving date:        | 28.11.2023                                                                                                       |                         |
| Sub:                          | Water monitoring                                                                                                 |                         |
| Material:                     | Surface Water                                                                                                    |                         |
| Group:                        | Water                                                                                                            |                         |

### CHEMICAL REPORT

Date of starting of Test 28.11.2023

Date of completion of Test: 02.12.2023

| Sl. No. | Specific Test Performed      | Test Method                    | Test Result                                                                     |                                                                                   |
|---------|------------------------------|--------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|         |                              |                                | SW1<br>Up-Stream<br>Nalla(Kakar<br>pani)<br>Date of<br>Collection<br>15.11.2023 | SW2<br>Down-Stream<br>Nalla(Kakarpa<br>ni)<br>Date of<br>collection<br>15.11.2023 |
| 1       | pH                           | IS :3025,P-11, R.A 2009        |                                                                                 |                                                                                   |
| 2       | Turbidity(NTU)               | IS 3025 (P-10), RA2006         | 6.8                                                                             | 6.8                                                                               |
| 3       | Alkalinity as CaCo3 mg/l     | IS 3025 (P-23), RA2014         | 2.4                                                                             | 31.0                                                                              |
| 4       | Chloride as Cl mg/l          | IS 3025 (P-32), RA2009         | 23                                                                              | 26                                                                                |
| 5       | Total Hardness as CaCo3 mg/l | IS 3025 (P-21), RA2006         | 4                                                                               | 4                                                                                 |
| 6       | Calcium as Ca mg/l           | APHA 23rd EDN 3500Ca B         | 16                                                                              | 10                                                                                |
| 7       | Magnesium as Mg mg/l         | APHA 23rd EDN 3500 Mg B        | 5                                                                               | 4                                                                                 |
| 8       | Sulphate as So4 mg/l         | APHA 23rd EDN 4500 SO4 E       | 0.962                                                                           | <0.243                                                                            |
| 9       | Nitrate as No3 mg/l          | APHA 23rd EDN 4500 NO3 B       | 2.2                                                                             | 5.3                                                                               |
| 10      | Fluoride as F mg/l           | APHA 23rd EDN 4500 F D         | 2.5                                                                             | 3.8                                                                               |
| 11      | Total dissolve Solids mg/l   | IS 3025 (P-16), RA2012         | <0.1                                                                            | <0.1                                                                              |
| 12      | Total Suspended Solids mg/l  | APHA 23rd EDN 2540 D           | 34                                                                              | 33                                                                                |
| 13      | D.O.                         | APHA 23rd EDN 4500 O-C         | 1.0                                                                             | 14.0                                                                              |
| 14      | Iron as Fe mg/l              | APHA 23rd EDN 3111 B           | 3.9                                                                             | 3.4                                                                               |
| 15      | Copper as Cu mg/l            | APHA 23rd EDN 3111 B &C        | 0.1704                                                                          | 1.2341                                                                            |
| 16      | Zinc as Zn mg/l              | APHA 23rd EDN 3111 B &C        | <0.05                                                                           | <0.05                                                                             |
| 17      | Lead as Pb mg/l              | APHA 23rd EDN 3120 B           | <0.01                                                                           | <0.01                                                                             |
| 18      | Cadmium as Cd mg/l           | APHA 23rd EDN 3111 B &C        | <0.01                                                                           | <0.01                                                                             |
| 19      | Arsenic as As mg/l           | APHA 23rd EDN 3120 B           | <0.01                                                                           | <0.01                                                                             |
| 20      | Mercury as Hg mg/l           | IS 3025 (P-48)MURCURY ANALYSER | <0.01                                                                           | <0.01                                                                             |
| 21      | Chromium as Cr +6mg/l        | APHA 23rd EDN 3500 B           | <0.05                                                                           | <0.05                                                                             |
| 22      | Phenolic compound mg/l       | APHA 23rd EDN 5530 D           | <0.05                                                                           | <0.05                                                                             |
|         |                              |                                | <0.002                                                                          | <0.002                                                                            |

Tested by:

A. CHATTERJEE

Authorized Signatory

P. DUTTA (Technical Manager)

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GSTIN : 19AAECS3740C2ZJ

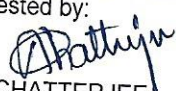
## TEST REPORT

|                               |                                                                                                                     |                   |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------|-------------------|
| Report No. N- 940             |                                                                                                                     | DATE - 04.12.2023 |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br>Patabeda Iron Mines (14.000Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                   |
| Work-order no. and Date:      | MGM/CO/2021/217                                                                                                     | Dated: 12/03/2021 |
| Sample receiving date:        | 28.11.2023                                                                                                          |                   |
| Sub:                          | Water monitoring                                                                                                    |                   |
| Material:                     | Surface Water                                                                                                       |                   |
| Group:                        | Water                                                                                                               |                   |

| Date of starting of Test 28.11.2023 |                             | CHEMICAL REPORT                                  |                                      | Date of completion of test :02..12.2023 |  |
|-------------------------------------|-----------------------------|--------------------------------------------------|--------------------------------------|-----------------------------------------|--|
| Sl. No.                             | Specific Test Performed     | Test Method                                      | Test Result                          |                                         |  |
|                                     |                             |                                                  | SW1<br>Up-Stream<br>Nalla(Kakarpani) | SW2<br>Down-Stream<br>Nalla(Kakarpani)  |  |
|                                     |                             |                                                  | Date of<br>Collection<br>15.10.2023  | Date of Collection<br>15.10.2023        |  |
| 23                                  | Temperature                 | APHA 23 <sup>rd</sup> EDN 2550 B                 | 18 <sup>o</sup> C                    | 17 <sup>o</sup> C                       |  |
| 24                                  | Residual Free Chlorine mg/l | IS 3025 (P-26), RA2009                           | <1.0                                 | <1.0                                    |  |
| 25                                  | COD mg/l                    | APHA 23 <sup>rd</sup> EDN 5220 B                 | 18                                   | 25                                      |  |
| 26                                  | Oil and Grease mg/l         | IS 3025 (P-39), RA2009                           | <0.1                                 | <0.1                                    |  |
| 27                                  | Aluminium as Al mg/l        | APHA 23 <sup>rd</sup> EDN 3500 Al-B              | 0.174                                | 1.602                                   |  |
| 28                                  | Boron as B mg/l             | APHA 23 <sup>rd</sup> EDN 4500 B-B               | <1.0                                 | <1.0                                    |  |
| 29                                  | Manganese as Mn mg/l        | APHA 23 <sup>rd</sup> EDN 3111 B                 | <0.03                                | <0.03                                   |  |
| 30                                  | Nickel as Ni mg/l           | APHA 23 <sup>rd</sup> EDN 3111 B & C             | <0.02                                | <0.02                                   |  |
| 31                                  | Cyanide as CN mg/l          | APHA 23 <sup>rd</sup> EDN 4500 E                 | <0.05                                | <0.05                                   |  |
| 32                                  | Sulphide as S mg/l          | APHA 23 <sup>rd</sup> EDN 4500 S <sup>2</sup> -F | N.T                                  | N.T                                     |  |
| 33                                  | Free Ammonia as N mg/l      | IS 3025 (P-34)                                   | N.T                                  | N.T                                     |  |
| 34                                  | Kjeldahl Nitrogen as N mg/l | IS 3025 (P-34)                                   | 5                                    | 8                                       |  |
| 35                                  | Ammonia as N mg/l           | IS 3025 (P-34)                                   | <0.02                                | <0.02                                   |  |

Tested by:

Authorized Signatory:

Tested by:  
  
 A. CHATTERJEE

Authorized Signatory  
  
 P. DUTTA (Technical Manager)

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**SUPERINTENDENCE CO. OF INDIA (P) LTD.**

**ENVIRONMENTAL BASELINE DATA GENERATION  
AT**

**M/S – M.G.MOHANTY  
PROJECT: Patabeda Iron Mines (14.000 Ha)**

**Work Order no.: MGM/CO/2021/217    Dated:- 12/03 /2021**

**REPORT  
REPORT FOR THE MONTH OF OCTOBER 2023**

\*\*\*\*\*

**Branch Office :** AT/P.O : NALDA , DIST : KEONJHAR, ODISHA – 758 042  
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E-mail: supindkolkata@vsnl.net / supind50yahoo.co.in  
Website: www.superintendence.co

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Kolkata – 700 071  
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Website: www.superintendence.co



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Fax : (033) 2357-4806, E-mail : supind2019@gmail.com, supind50@yahoo.co.in, Website : www.superintendencecoindia.com

Ref.: SUENV/. M.G. MOHANTY(14.000 Ha) /KB /292

Date: 09.11.2023

To  
**The Mines Manager,**  
M/s. M.G. Mohanty.  
Patabeda Iron Mines (14.000 Ha)  
Patabeda, P.O. Malda, P.S. Koira,  
Dist.: Sundergarh, Odisha

Sub: Submission of Test Report for the Month of **OCTOBER 2023**

Work Order no & Dated.: MGM/CO/2021/217 Dated:- 12/03 /2021

Dear Sir,

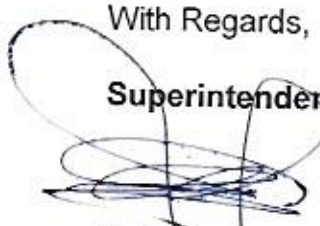
We are submitting herewith test reports for the month of **OCTOBER 2023** as follows:

- Ambient Air Monitoring (5 Parameters).
- Fugitive Dust
- Noise Monitoring
- Surface Water Quality

Thanking you,

With Regards,

**Superintendence Co. of India (P) Ltd.**

  
**S. Paul**  
**(ADDL.DIRECTOR)**

Encl: as above

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Website : www.superintendencecoindia.com  
Mumbai : "LAXMI BHAWAN", 161, P D. Mello Road, Mumbai-400 001, Phone : (022) 2261-1244, Fax : (022) 2261-5289, E-mail : supindbombay@gmail.com  
Delhi : 203, "AGARWAL BHAWAN", 35-36, Nehru Place, New Delhi-110 019, Tele/Fax : (011) 2647-5066 E-mail : supind50@yahoo.co.in  
Chennai : 138, Angappa Naicken Street, Chennai-600 001, Phone : (044) 2522-9885/6192, Fax : (044) 2522-1612, E-mail : supindchennai@rediffmail.com



GSTIN : 19AAECS3740C2ZJ

## TEST REPORT



|                               |                                                                                                                     |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------|
| ULR-TC806623000001253F        |                                                                                                                     |
| REPORT NO. : N- 838           | DATE - 09.11.2023                                                                                                   |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br>Patabeda Iron Mines (14.000Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |
| Ref. no. and Date:            | MGM/CO/2021/217 Dated:12/03/2021                                                                                    |
| Sample receiving date:        | 25.10.2023                                                                                                          |
| Sub:                          | Environmental monitoring                                                                                            |
| Material:                     | Ambient Air                                                                                                         |
| Group:                        | Atmospheric Pollution                                                                                               |

### CHEMICAL TEST RESULT

Date of starting of Test: 04.11.2023

Date of completion of Test: 08.11.2023

| S.N. | Specific Test Performed                                      | Test Method Specification against which tests are performed | Permissible limit as per NAAQS-2009 | Test Results |                     |             |             |
|------|--------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------|--------------|---------------------|-------------|-------------|
|      |                                                              |                                                             |                                     | Core Zone    |                     | Buffer Zone |             |
|      |                                                              |                                                             |                                     | Mines Quarry | Near weight bridge. | Ganua Camp  | Guruda camp |
|      |                                                              |                                                             |                                     | 12.10.2023   | 12.10.2023          | 12.10.2023  | 12.10.2023  |
| 1.   | Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> ) | IS:5182, PART- 24                                           | 60 (µg/m <sup>3</sup> )<br>24 Hrs.  | 38.44        | 36.28               | 28.96       | 32.67       |
| 2.   | Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )     | IS:5182, PART-23, 2006, RA-2017                             | 100 (µg/m <sup>3</sup> )<br>24 Hrs. | 59.67        | 57.43               | 50.71       | 53.29       |
| 3.   | Suspended Particulate Matter SPM (µg/m <sup>3</sup> )        | IS: 5182 PART-4, 1999 RA-2010                               | -                                   | 125.06       | 119.98              | 105.62      | 110.87      |
| 4.   | Sulphur Di Oxide (SO <sub>2</sub> ) (µg/m <sup>3</sup> )     | IS:5182, PART-2, 2001, RA-2017                              | 80 (µg/m <sup>3</sup> )<br>24 Hrs.  | 10.53        | 11.82               | 9.34        | 10.45       |
| 5.   | Nitrogen Di oxide (NO <sub>2</sub> ) (µg/m <sup>3</sup> )    | IS:5182 PART-6,2006, RA-2017                                | 80 (µg/m <sup>3</sup> )<br>24 Hrs.  | 18.46        | 20.59               | 16.74       | 17.36       |
| 6.   | Carbon Mono Oxide (CO) (mg/m <sup>3</sup> )                  | IS:5182 PART-10, 1999, RA-2009                              | 4 (mg/m <sup>3</sup> )<br>1 Hrs.    | 0.69         | 0.68                | 0.48        | 0.59        |

Tested by:

Authorized Signatory

F-0my

A. Chatterjee



P. Dutta (Technical Manager)

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# SUPERINTENDENCE COMPANY OF INDIA PRIVATE LIMITED

LABORATORY :

PLOT NO. Y-23, BLOCK-EP, SECTOR-V, SALT LAKE CITY, KOLKATA-700 091

☎ : (033) 2357-4671 / 4681 / 5039 / 5042 • Fax : (033) 2357- 4806

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Website : www.superintendencecoindia.com

GSTIN : 19AAECS3740C2ZJ



TC-8066

## TEST REPORT

|                               |                                                                                                                     |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------|
| ULR-TC806623000001254F        |                                                                                                                     |
| Report No.: N - 839           | Date - 09.11.2023                                                                                                   |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br>Patabeda Iron Mines (14.000Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |
| Work Order No. and Date       | MGM/CO/2021/217 Dated: 12/03/2021                                                                                   |
| Date of Sample Received:      | 25.10.2023                                                                                                          |
| Sub:                          | Environment Monitoring                                                                                              |
| Material:                     | Fugitive Dust Emission                                                                                              |
| Group:                        | Atmospheric Pollution                                                                                               |

### FUGITIVE DUST EMISSION MONITORING CHEMICAL TEST

Date of starting of test: 04.11.2023

Date of completion of test: 08.11.2023

| Sl. No. | Name of Tests                                   | Test Method                    | Permissible Limit as per OPCB     | Test Result              |
|---------|-------------------------------------------------|--------------------------------|-----------------------------------|--------------------------|
|         |                                                 |                                |                                   | NAME OF STATIONS         |
|         |                                                 |                                |                                   | FD-1<br>Screening Plant  |
|         |                                                 |                                |                                   | Sampling Collection Date |
|         |                                                 |                                |                                   | 12.10.2023               |
| 01      | Particulate Matter ( $\mu\text{g}/\text{m}^3$ ) | IS:5182, PART-4, 2006, RA-2012 | 1200 ( $\mu\text{g}/\text{m}^3$ ) | 730.68                   |

Tested by:

F. Chatterjee  
A. Chatterjee

Authorized Signatory

P. Dutta (Technical Manager)

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TC-8066

GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                         |                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------------------|
| <b>Report No N - 840</b>      | <b>ULR-TC806623000001255F</b>                                                                                           | <b>DATE -09.11.2023</b> |
| Name and Address of Customer: | M/s. M.G. MOHANTY, Patabeda Iron Mines <b>(14.000Ha)</b><br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                         |
| Work-order no. and Date:      | MGM/CO/2021/217 Dated:12/03/2021                                                                                        |                         |
| Sample receiving date:        | <b>25.10.2023</b>                                                                                                       |                         |
| Sub:                          | Water monitoring                                                                                                        |                         |
| Material:                     | Surface Water                                                                                                           |                         |
| Group:                        | Water                                                                                                                   |                         |

### CHEMICAL REPORT

Date of starting of Test **25.10.2023**

Date of completion of Test: **01.11.2023**

| Sl. No. | Specific Test Performed                  | Test Method                          | Test Result                              |                                            |
|---------|------------------------------------------|--------------------------------------|------------------------------------------|--------------------------------------------|
|         |                                          |                                      | SW1<br>Up-Stream<br>Nalla(Kakar<br>pani) | SW2<br>Down-Stream<br>Nalla(Kakarpa<br>ni) |
|         |                                          |                                      | Date of<br>Collection<br>15.10.2023      | Date of<br>collection<br>15.10.2023        |
| 1       | pH                                       | IS :3025,P-11, R.A 2009              | 6.8                                      | 6.7                                        |
| 2       | Turbidity(NTU)                           | IS 3025 (P-10), RA2006               | 2.6                                      | 33.0                                       |
| 3       | Alkalinity as CaCO <sub>3</sub> mg/l     | IS 3025 (P-23), RA2014               | 20                                       | 24                                         |
| 4       | Chloride as Cl mg/l                      | IS 3025 (P-32), RA2009               | 4                                        | 4                                          |
| 5       | Total Hardness as CaCO <sub>3</sub> mg/l | IS 3025 (P-21), RA2006               | 20                                       | 12                                         |
| 6       | Calcium as Ca mg/l                       | APHA 23rd EDN 3500Ca B               | 6                                        | 5                                          |
| 7       | Magnesium as Mg mg/l                     | APHA 23rd EDN 3500 Mg B              | 0.972                                    | <0.243                                     |
| 8       | Sulphate as SO <sub>4</sub> mg/l         | APHA 23rd EDN 4500 SO <sub>4</sub> E | 2.0                                      | 5.0                                        |
| 9       | Nitrate as NO <sub>3</sub> mg/l          | APHA 23rd EDN 4500 NO <sub>3</sub> B | 2.5                                      | 3.8                                        |
| 10      | Fluoride as F mg/l                       | APHA 23rd EDN 4500 F D               | <0.1                                     | <0.1                                       |
| 11      | Total dissolve Solids mg/l               | IS 3025 (P-16), RA2012               | 30                                       | 30                                         |
| 12      | Total Suspended Solids mg/l              | APHA 23rd EDN 2540 D                 | 1.0                                      | 11.0                                       |
| 13      | D.O.                                     | APHA 23rd EDN 4500 O-C               | 4.0                                      | 3.7                                        |
| 14      | Iron as Fe mg/l                          | APHA 23rd EDN 3111 B                 | 0.1702                                   | 1.2343                                     |
| 15      | Copper as Cu mg/l                        | APHA 23rd EDN 3111 B & C             | <0.05                                    | <0.05                                      |
| 16      | Zinc as Zn mg/l                          | APHA 23rd EDN 3111 B & C             | <0.01                                    | <0.01                                      |
| 17      | Lead as Pb mg/l                          | APHA 23rd EDN 3120 B                 | <0.01                                    | <0.01                                      |
| 18      | Cadmium as Cd mg/l                       | APHA 23rd EDN 3111 B & C             | <0.01                                    | <0.01                                      |
| 19      | Arsenic as As mg/l                       | APHA 23rd EDN 3120 B                 | <0.01                                    | <0.01                                      |
| 20      | Mercury as Hg mg/l                       | IS 3025 (P-48)MURCURY ANALYSER       | <0.05                                    | <0.05                                      |
| 21      | Chromium as Cr +6mg/l                    | APHA 23rd EDN 3500 B                 | <0.05                                    | <0.05                                      |
| 22      | Phenolic compound mg/l                   | APHA 23rd EDN 5530 D                 | <0.002                                   | <0.002                                     |

Tested by:

*F-Drj*  
A. CHATTERJEE

Authorized Signatory

*P. Dutta*  
P. DUTTA (Technical Manager)

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GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

|                               |                                                                                                                                   |                   |  |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------|--|
| Report No. N- 840             |                                                                                                                                   | DATE - 09.11.2023 |  |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br>Patabeda Iron Mines <b><u>(14.000Ha)</u></b><br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |                   |  |
| Work-order no. and Date:      | MGM/CO/2021/217                                                                                                                   | Dated:12/03/2021  |  |
| Sample receiving date:        | 25.10.2023                                                                                                                        |                   |  |
| Sub:                          | Water monitoring                                                                                                                  |                   |  |
| Material:                     | Surface Water                                                                                                                     |                   |  |
| Group:                        | Water                                                                                                                             |                   |  |

Date of starting of Test 25.10.2023

### CHEMICAL REPORT

Date of completion of test :01.11.2023

| Sl. No. | Specific Test Performed     | Test Method                                      | Test Result                          |                                        |
|---------|-----------------------------|--------------------------------------------------|--------------------------------------|----------------------------------------|
|         |                             |                                                  | SW1<br>Up-Stream<br>Nalla(Kakarpani) | SW2<br>Down-Stream<br>Nalla(Kakarpani) |
|         |                             |                                                  | Date of Collection<br>15.10.2023     | Date of Collection<br>15.10.2023       |
| 23      | Temperature                 | APHA 23 <sup>rd</sup> EDN 2550 B                 | 17°C                                 | 16°C                                   |
| 24      | Residual Free Chlorine mg/l | IS 3025 (P-26), RA2009                           | <1.0                                 | <1.0                                   |
| 25      | COD mg/l                    | APHA 23 <sup>rd</sup> EDN 5220 B                 | 16                                   | 23                                     |
| 26      | Oil and Grease mg/l         | IS 3025 (P-39), RA2009                           | <0.1                                 | <0.1                                   |
| 27      | Aluminium as Al mg/l        | APHA 23 <sup>rd</sup> EDN 3500 Al-B              | 0.1750                               | 1.6003                                 |
| 28      | Boron as B mg/l             | APHA 23 <sup>rd</sup> EDN 4500 B-B               | <1.0                                 | <1.0                                   |
| 29      | Manganese as Mn mg/l        | APHA 23 <sup>rd</sup> EDN 3111 B                 | <0.01                                | 0.046                                  |
| 30      | Nickel as Ni mg/l           | APHA 23 <sup>rd</sup> EDN 3111 B & C             | <0.02                                | <0.02                                  |
| 31      | Cyanide as CN mg/l          | APHA 23 <sup>rd</sup> EDN 4500 E                 | <0.05                                | <0.05                                  |
| 32      | Sulphide as S mg/l          | APHA 23 <sup>rd</sup> EDN 4500 S <sup>2</sup> -F | N.T                                  | N.T                                    |
| 33      | Free Ammonia as N mg/l      | IS 3025 (P-34)                                   | N.T                                  | N.T                                    |
| 34      | Kjeldahl Nitrogen as N mg/l | IS 3025 (P-34)                                   | 10                                   | 12.3                                   |
| 35      | Ammonia as N mg/l           | IS 3025 (P-34)                                   | <0.02                                | <0.02                                  |

Tested by:

*P. Dutt*  
A. CHATTERJEE

Authorized Signatory

*P. Dutt*  
P. DUTTA (Technical Manager)

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GSTIN : 19AAECS3740C2ZJ

## TEST REPORT

| ULR-TC806623000001256F        |                                                                                                                     |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------|
| REPORT NO. : N- 841           | DATE - 09.11.2023                                                                                                   |
| Name and Address of Customer: | M/s. M.G. MOHANTY.<br>Patabeda Iron Mines (14.000Ha)<br>Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha |
| Ref. no. and Date:            | MGM/CO/2021/217 Dated: 12/03/2021                                                                                   |
| Sample receiving date:        | 25.10.2023                                                                                                          |
| Sub:                          | Environmental monitoring                                                                                            |
| Material:                     | Work zone Noise                                                                                                     |
| Group:                        | Atmospheric Pollution                                                                                               |

### TEST REPORT

| S. N | Name of tests                    | Reference                       | Permissible limit as per:<br>Ambient Noise Level     |                     | Test Results                           |
|------|----------------------------------|---------------------------------|------------------------------------------------------|---------------------|----------------------------------------|
| 1.   | Equivalent Sound level dB(A) Leq | SUP/SOP/403<br>3SD &<br>IS:9989 | Standard as per Noise Pollution Regulation Rule-2000 |                     | Mines Quarry (Core zone)<br>12.10.2023 |
|      |                                  |                                 | Category of area Zone                                | Limits in dB(A) Leq | 70.7                                   |
|      |                                  |                                 | 1. Industrial                                        | 75                  |                                        |
|      |                                  |                                 | 2. Commercial                                        | 65                  |                                        |
|      |                                  |                                 | 3. Residential                                       | 55                  |                                        |
|      |                                  |                                 | 4. Silent                                            | 50                  |                                        |

Tested by:

*F. Chatterjee*  
A. Chatterjee

Authorized Signatory

*P. Dutta*  
P. Dutta

(Technical Manager)

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CONSENT ORDER  
PATABEDA IRON ORE MINE OF M/S. M. G. MOHANTY(14.0 Ha)

BY REGD. POST WITH AD

**STATE POLLUTION CONTROL BOARD, ODISHA**

A/118, Nilakantha Nagar, Unit-VIII, Bhubaneswar-751012

Phone-2561909, Fax: 2562822, 2560955 E-mail: [paribesh1@ospcboard.org](mailto:paribesh1@ospcboard.org), Website: [www.ospcboard.org](http://www.ospcboard.org)**CONSENT ORDER**No. 4511 / IND-I-CON-5428Dt. 19.03.2021**CONSENT ORDER NO. 2143**

Sub : Consent for discharge of sewage and trade effluent under section 25/26 of Water (PCP) Act, 1974 and for existing / new operation of the plant under section 21 of Air (PCP) Act, 1981.

Ref : Your online application No. 3349711 Dated 28-01-2021 and Online reply dated 20.2.2021 & 16.3.2021

Consent to operate is hereby granted under section 25/26 of Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of Air (Prevention & Control of Pollution) Act, 1981 and rules framed thereunder to

Name of the Industry: PATABEDA IRON ORE MINE (14.0 HA) OF M/S. M. G. MOHANTY.

Name of the Occupier & Designation: SRI R. L. MOHANTY, MANAGING PARTNER

Address: AT: PATABEDA ,PO – MALDA,DIST:SUNDARGARH

This consent order is valid for the period up to 31.03.2026 from the date of issue of this order.

***This consent order supersedes the earlier consent order issued vide letter No. 10214 dated 30.09.2019.***

**Details of Products Manufactured**

| Sl. No | Product  | Quantity  |
|--------|----------|-----------|
| 01.    | Iron Ore | 0.12 MTPA |

**Details of Mineral Handling Plants /Units**

|    |                                                             |
|----|-------------------------------------------------------------|
| 01 | Operation of mobile screening plant of capacity 1 x 250 TPH |
|----|-------------------------------------------------------------|

This consent order is valid for the specified outlets, discharge quantity and quality, specified chimney/stack, emission quantity and quality of emissions as specified below. This consent is granted subject to the general and special conditions stipulated therein.





**A. Discharge permitted through the following outlet subject to the standard**

| Outlet No. | Description of outlet                                 | Point of discharge                | Quantity of discharge KL/hr | Pre-scribed Standard |                    |                     |            |
|------------|-------------------------------------------------------|-----------------------------------|-----------------------------|----------------------|--------------------|---------------------|------------|
|            |                                                       |                                   |                             | pH                   | TSS (mg/l)         | Oil & Grease (mg/l) | BOD (mg/l) |
| 01         | Septic tank (Domestic effluent)                       | Soak pit                          | --                          | 5.5-9.0              | 200                | --                  | 100        |
| 02         | Mine drainage water/ surface runoff/ other wastewater | On land/Inland surface water body | 2570 (Monsoon period)       | 5.5-9.0              | 100 (Rainy day)    | 10                  | --         |
|            |                                                       |                                   |                             |                      | 50 (Non-Rainy day) |                     |            |

**B. Fugitive Emission Standards**

| Particulate Matter                                                                                                                                                            | 1200 $\mu\text{g}/\text{m}^3$                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Note : Fugitive emission shall be monitored in the predominant downwind direction at a distance 25.0 $\pm$ 2.0 metres from the source of fugitive emission as per following : |                                                                                               |
| Area                                                                                                                                                                          | Monitoring Location                                                                           |
| Mine face / Benches                                                                                                                                                           | Drilling, excavation and loading applicable for operating benches above water table           |
| Haul Roads/ Service Roads                                                                                                                                                     | Haul roads to ore processing plant, waste dumps and loading areas and service road.           |
| Crushing plant                                                                                                                                                                | Run-off mine unloading at hopper, crushing areas, screens and transfer points.                |
| Screening plant                                                                                                                                                               | Screens, conveying and transportation of ore discharge points.                                |
| Ore storage and loading                                                                                                                                                       | Intermediate stock bin / pile areas, ore stock bin / pile areas, wagon / truck loading areas. |
| Waste dump                                                                                                                                                                    | Active waste / reject dumps                                                                   |

**C. Disposal of solid waste permitted in the following manner**

| Sl. No. | Type of Solid waste    | Quantity generated (TPD)    | Quantity to be reused on site(TPD) | Quantity to be reused off site(TPD) | Quantity disposed off (TPD) | Description of disposal site. |
|---------|------------------------|-----------------------------|------------------------------------|-------------------------------------|-----------------------------|-------------------------------|
| 01      | Top soil & over burden | As per approved mining plan | --                                 | --                                  | --                          | As per approved mining plan   |



**D. GENERAL CONDITIONS FOR ALL UNITS**

1. The consent is given by the Board in consideration of the particulars given in the application. Any change or alternation or deviation made in actual practice from the particulars furnished in the application will also be the ground liable for review/variation/revocation of the consent order under section 27 of the Act of Water (Prevention & Control of Pollution) Act, 1974 and section 21 of Air (Prevention & Control of Pollution) Act, 1981 and to make such variations as deemed fit for the purpose of the Acts.
2. The industry would immediately submit revised application for consent to operate to this Board in the event of any change in the quantity and quality of raw material / and products / manufacturing process or quantity /quality of the effluent rate of emission / air pollution control equipment / system etc.
3. The applicant shall not change or alter either the quality or quantity or the rate of discharge or temperature or the route of discharge without the previous written permission of the Board.
4. The application shall comply with and carry out the directives/orders issued by the Board in this consent order and at all subsequent times without any negligence on his part. In case of non-compliance of any order/directives issued at any time and/or violation of the terms and conditions of this consent order, the applicant shall be liable for legal action as per the provisions of the Law/Act.
5. The applicant shall make an application for grant of fresh consent at least 90 days before the date of expiry of this consent order.
6. The issuance of this consent does not convey any property right in either real or personal property or any exclusive privileges nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Central, State laws or regulation.
7. This consent does not authorize or approve the construction of any physical structure or facilities or the undertaking of any work in any natural water course.
8. The applicant shall display this consent granted to him in a prominent place for perusal of the public and inspecting officers of this Board.
9. An inspection book shall be opened and made available to Board's Officers during the visit to the factory.
10. The applicant shall furnish to the visiting officer of the Board any information regarding the construction, installation or operation of the plant or of effluent treatment system / air pollution control system / stack monitoring system any other particulars as may be pertinent to preventing and controlling pollution of Water / Air.
11. Meters must be affixed at the entrance of the water supply connection so that such meters are easily accessible for inspection and maintenance and for other purposes of the Act provided that the place where it is affixed shall in no case be at a point before which water has been tapped by the consumer for utilization for any purposes whatsoever.
12. Separate meters with necessary pipe-line for assessing the quantity of water used for each of the purposes mentioned below:
  - a) Industrial cooling, spraying in mine pits or boiler feed,
  - b) Domestic purpose
  - c) Process
13. The applicant shall display suitable caution board at the place where the effluent is entering into any water-body or any other place to be indicated by the Board, indicating therein that the area into which the effluents are being discharged is not fit for the domestic use/bathing.
14. Storm water shall not be allowed to mix with the trade and/or domestic effluent on the upstream of the terminal manholes where the flow measuring devices will be installed.
15. The applicant shall maintain good house-keeping both within the factory and the premises. All pipes, valves, sewers and drains shall be leak-proof. Floor washing shall be admitted into the effluent collection system only and shall not be allowed to find their way in storm drains or open areas.
16. The applicant shall at all times maintain in good working order and operate as efficiently as possible all treatment or control facilities or systems install or used by him to achieve with the term(s) and conditions of the consent.
17. Care should be taken to keep the anaerobic lagoons, if any, biologically active and not utilized as mere stagnation ponds. The anaerobic lagoons should be fed with the required nutrients for effective digestion. Lagoons should be constructed with sides and bottom made impervious.
18. The utilization of treated effluent on factory's own land, if any, should be completed and there should be no possibility of the effluent gaining access into any drainage channel or other water courses either directly or by overflow.
19. The effluent disposal on land, if any, should be done without creating any nuisance to the surroundings or inundation of the lands at any time.
20. If at any time the disposal of treated effluent on land becomes incomplete or unsatisfactory or create any problem or becomes a matter of dispute, the industry must adopt alternate satisfactory treatment and disposal measures.
21. The sludge from treatment units shall be dried in sludge drying beds and the drained liquid shall be taken to equalization tank.
22. The effluent treatment units and disposal measures shall become operative at the time of commencement of production.
23. The applicant shall provide port holes for sampling the emissions and access platform for carrying out stack sampling and provide electrical outlet points and other arrangements for chimneys/stacks and other sources of emissions so as to collect samples of emission by the Board or the applicant at any time in accordance with the provision of the Act or Rules made therein.
24. The applicant shall provide all facilities and render required assistance to the Board staff for collection of samples / stack monitoring / inspection.
25. The applicant shall not change or alter either the quality or quantity or rate of emission or install, replace or alter the air pollution control equipment or change the raw material or manufacturing process resulting in any change in quality and/or quantity of emissions, without the previous written permission of the Board.
26. No control equipments or chimney shall be altered or replaced or as the case may be erected or re-erected except with the previous approval of the Board.





**CONSENT ORDER**  
**PATABEDA IRON ORE MINE OF M/S. M. G. MOHANTY(14.0 Ha)**

Page 4 of 13

27. The liquid effluent arising out of the operation of the air pollution control equipment shall be treated in the manner and to ion of standards prescribed by the Board in accordance with the provisions of Water (Prevention and Control of Pollution) Act, 1974 (as amended).
28. The stack monitoring system employed by the applicant shall be opened for inspection to this Board at any time.
29. There shall not be any fugitive or episodal discharge from the premises.
30. In case of such episodal discharge/emissions the industry shall take immediate action to bring down the emission within the limits prescribed by the Board in conditions/stop the operation of the plant. Report of such accidental discharge /emission shall be brought to the notice of the Board within 24 hours of occurrence.
31. The applicant shall keep the premises of the industrial plant and air pollution control equipments clean and make all hoods, pipes, valves, stacks/chimneys leak proof. The air pollution control equipments, location, inspection chambers, sampling port holes shall be made easily accessible at all times.
32. Any upset condition in any of the plant/plants of the factory which is likely to result in increased effluent discharge/emission of air pollutants and / or result in violation of the standards mentioned above shall be reported to the Headquarters and Regional Office of the Board by fax / speed post within 24 hours of its occurrence.
33. The industry has to ensure that minimum three varieties of trees are planted at the density of not less than 1000 trees per acre. The trees may be planted along boundaries of the industries or industrial premises. This plantation is stipulated over and above the bulk plantation of trees in that area.
34. The solid waste such as sweeping, wastage packages, empty containers residues, sludge including that from air pollution control equipments collected within the premises of the industrial plants shall be disposed off scientifically to the satisfaction of the Board, so as no to cause fugitive emission, dust problems through leaching etc., of any kind.
35. All solid wastes arising in the premises shall be properly classified and disposed off to the satisfaction of the Board by :
  - i) Land fill in case of inert material, care being taken to ensure that the material does not give rise to leachate which may percolate into ground water or carried away with storm run-off.
  - ii) Controlled incineration, wherever possible in case of combustible organic material.
  - iii) Composting, in case of bio-degradable material.
36. Any toxic material shall be detoxicated if possible, otherwise be sealed in steel drums and buried in protected areas after obtaining approval of this Board in writing. The detoxication or sealing and burying shall be carried out in the presence of Board's authorized persons only. Letter of authorization shall be obtained for handling and disposal of hazardous wastes.
37. If due to any technological improvement or otherwise this Board is of opinion that all or any of the conditions referred to above requires variation (including the change of any control equipment either in whole or in part) this Board shall after giving the applicant an opportunity of being heard, vary all or any of such condition and thereupon the applicant shall be bound to comply with the conditions so varied.
38. The applicant, his/heirs/legal representatives or assignees shall have no claim whatsoever to the condition or renewal of this consent after the expiry period of this consent.
39. The Board reserves the right to review, impose additional conditions or condition, revoke change or alter the terms and conditions of this consent.
40. Notwithstanding anything contained in this conditional letter of consent, the Board hereby reserves to it the right and power under section 27(2) of the Water (Prevention & Control of Pollution) Act, 1974 to review any and/or all the conditions imposed herein above and to make such variations as deemed fit for the purpose of the Act by the Board.
41. The conditions imposed as above shall continue to be in force until revoked under section 27(2) of the Water (Prevention & Control of Pollution) Act, 1974 and section 21 A of Air (Prevention & Control of Pollution) Act, 1981.
42. In case the consent fee is revised upward during this period, the industry shall pay the differential fees to the Board (for the remaining years) to keep the consent order in force. If they fail to pay the amount within the period stipulated by the Board the consent order will be revoked without prior notice.
43. The Board reserves the right to revoke/refuse consent to operate at any time during period for which consent is granted in case any violation is observed and to modify/ stipulate additional conditions as deemed appropriate.

**GENERAL CONDITIONS FOR UNITS WITH INVESTMENT OF MORE THAN Rs 50 CRORES, AND 17 CATEGORIES OF HIGHLY POLLUTING INDUSTRIES (RED A).**

1. The applicant shall analyse the emissions every month for the parameters indicated in TABLE .B & C as mentioned in this order and shall furnish the report thereof to the Board by the 10<sup>th</sup> of the succeeding month.
2. The applicant shall provide and maintain at his own cost three ambient air quality monitoring stations for monitoring Suspended Particulate Matter, Sulphur Dioxide, Oxides of Nitrogen, Hydro-Carbon, Carbon-Monoxide and monitor the same once in a day/week/fortnight/month. The data collected shall be maintained in a register and a monthly extract be furnished to the Board.
3. The applicant shall provide and maintain at his own cost a meteorological station to collect the data on wind velocity, direction, temperature, humidity, rainfall, etc. and the daily reading shall be recorded and the extract sent to the Board once in a month.
4. The applicant shall forward the following information to the Member Secretary, State Pollution Control Board, Odisha, Bhubaneswar regularly.
  - a. Report of analysis of stack monitoring, ambient air quality monitoring meteorological data as required every month.
  - b. Progress on planting of trees quarterly.
5. The applicant shall install mechanical composite sampling equipment and continuous flow measuring / recording devices on the effluent drains of trade as well as domestic effluent. A record of daily discharge shall be maintained.



6. The following information shall be forwarded to the Member Secretary on or before 10<sup>th</sup> of every month.

- a. Performance / progress of the treatment plant.
- b. Monthly statement of daily discharge of domestic and/or trade effluent.

7. **Non-compliance with effluent limitations**

- a) If for any reason the applicant does not comply with or is unable to comply with any effluent limitations specified in this consent, the applicant shall immediately notify the consent issuing authority by telephone and provide the consent issuing authority with the following information in writing within 5 days of such notification.
  - i) Causes of non-compliance
  - ii) A description of the non-compliance discharge including its impact on the receiving waters.
  - iii) Anticipated time of continuance of non-compliance if expected to continue or if such condition has been corrected the duration or period of non-compliance.
  - iv) Steps taken by the applicant to reduce and eliminate the non-complying discharge and
  - v) Steps to be taken by the applicant too prevent the condition of non-compliance.
- b) The applicant shall take all reasonable steps to minimize any adverse impact to natural waters resulting from non-compliance with any effluent limitation specified in this consent including such accelerated or additional monitoring as necessary to determine the nature and impact of the non-complying discharge.
- c) Nothing in this consent shall be construed to relieve the applicant from civil or criminal penalties for non-compliance whether or not such non-compliance is due to factors beyond his control, such as break-down, electric failure, accident or natural disaster.

8. The applicant shall at his own cost get the effluent samples collected both before and after treatment and get them analysed at an approval laboratory every month for the parameters indicated in Part-D and shall submit in duplicate the report thereof to the Board.

9. The addition of various treatment chemicals should be done only with mechanical dosers and proper equipment for regulation of correct dosages determined daily and for proper uniform feeding. Crude practices such as dumping of chemicals in drains or sumps or trickling of acids or alkalies arbitrarily and utilizing poles for stirring etc. should not be resorted to.

10. In the disposal of treated effluent on land for irrigation, the industry shall keep in view of the need for;

Rotation of crops

Change of point of application of effluent on land

A portion of land kept fallow.

11. The adoption of these would avoid soil becoming sick or slate, the industry may ensure this in consultation with the Agriculture Department.

12. It is the sole responsibility of the industry to ensure that there are no complaints at any time from the royats in the surrounding areas as a result of discharge of sewage or trade effluent if any.

13. Proper housekeeping shall be maintained by a dedicated team.

14. The industry must constitute a team of responsible and technically qualified personnel who will ensure continuous operation of all pollution control devices round the clock (including night hours) and should be in a position to explain the status of operation of the pollution control measures to the inspecting officers of the Board at any point of time. The name of these persons with their contact telephone numbers shall be intimated to the concerned. Regional Officer and Head Office of the Board and in case of any change in the team it shall be intimated to the Board immediately.





**E. SPECIAL CONDITIONS:**

1. This consent order is subject to compliance of orders of the Hon'ble Supreme Court of India in the matter of W. P. (Civil) 114/2014.
  2. This consent order is subject to permission from MoEF & CC, Govt. of India and Steel and Mines Department, Government of Odisha for continuing of mining operation.
  3. Mining operation is subject to availability of all other statutory clearances.
  4. Drills shall either be operated with dust extractors or equipped with water injection system to minimize dust generation in the work environment.
  5. Controlled blasting shall be practiced to minimize generation of dust and fly rocks.
  6. Regular water sprinkling shall be carried out in critical areas prone to air pollution such as around crushing and screening plant. Water sprinkling shall also be carried out on haul roads at frequent interval so that it should always remain in wet condition. Haulage roads shall be devoid of ruts and potholes and shall be maintained properly to avoid generation of dust during movement of vehicles.
  7. Dust suppression measures (preferably dry fog system) shall be provided at all appropriate places of mineral handling plants (crusher & screening plant). Loading and unloading areas including all the transfer points shall also have efficient dust suppression arrangements (dry fog system). These shall be properly maintained and operated.
  8. Mechanized wheel washing facility for the ore transport vehicles shall be provided at the exit point of the mine. The wheel washing facility shall be integrated with complete recirculation system.
  9. The vehicles carrying ore for transportation from the mine shall be covered with tarpaulin (both bottom & top).
  10. Regular water sprinkling on mineral transportation roads passing through the habitation area as well as other strategic point on the National Highway shall be done jointly by the mining lessees in consultation with the Regional Officer.
-



11. Four Ambient Air Quality Monitoring Stations shall be established in core zone and buffer zone for monitoring of ambient air quality and location of the stations shall be decided in consultation with the Regional Officer, State Pollution Control Board based on the metrological data, topographical features and environmentally and ecologically sensitive targets.
  12. Fugitive Dust Emission Monitoring shall be carried out at the places as stated in Part-B of this order. The monitoring of ambient air quality and fugitive dust shall be carried out twice in a week (24 hourly) at a particular site and the consolidated data shall be submitted to the State Pollution Control Board, once in a year.
  13. The top soil generated shall be stored at earmarked site (s) only and stabilized with plantation or shall be used for land reclamation and plantation.
  14. The over burden generated during the course of mining shall be stacked at earmarked dump site (s) and stabilized with plantation or used for reclamation of excavated land followed by plantation.
  15. The project proponent shall ensure that no natural watercourse and / or water resources are obstructed due to any mining operations. In case of diversion of natural watercourse, this shall be done with prior permission of the competent authority.
  16. Check dams and check weirs shall be constructed at appropriate places of the mine lease area to prevent direct flow of runoff to nearby water bodies. The surface runoff water from the existing runoff management system shall meet the prescribed standards as stated in Part A of the consent order.
  17. Retention wall shall be constructed at the toe of topsoil dump and OB dump. Garland drain shall be constructed around topsoil dumps, over burden dumps and mineral stack yards terminating at settling pit to prevent direct disposal of runoff to nearby water bodies.
  18. Garland drain and sedimentation pit shall be de-silted after monsoon or as and when required. The runoff discharge quality from runoff management system shall meet the prescribed standards as stated in Part A of the consent order.
-





19. Domestic effluents shall be treated in a sewage treatment plant (STP) and or shall be discharged to soak pit via septic tank constructed as BIS specification. The treated wastewater quality of STP shall remain within the following standards and shall be used for plantation:

|                |   |                   |
|----------------|---|-------------------|
| pH             | - | 6.5 -9.0          |
| TSS            | - | <100 mg/l         |
| BOD            | - | 30 mg/l           |
| Fecal Coliform | - | <1000 MPN/100 ml. |

20. ETP shall be provided for workshop and wastewater generated during mining operation, if any. The quality of the treated wastewater shall conform to the prescribed standard as stated in Part A of the consent order.
21. Regular monitoring of water quality of upstream and downstream of surface water bodies existed if any within 5 Km shall be carried out once in every month and record shall be maintained and submitted to the State Pollution Control Board once in every year. Monitoring shall be carried out through MoEF& CC accredited laboratory.
22. Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells. The monitoring should be done four times a year in pre-monsoon (April/May), monsoon (August), post-monsoon (November) and winter (January) seasons. Consolidated data thus collected should be submitted to the Board annually.
23. The mine shall take necessary action for compliance with the air and water quality standards as stipulated in Part-A and Part-B of this order.
24. Adequate measures shall be taken for control of noise levels below the following limits.
- (6.00 AM - 9.00 PM) - Leq 75 dB(A)
- (9.00PM - 6.00 AM) - Leq 70 dB(A)
25. Ambient air quality monitoring data, noise monitoring data and water / wastewater quality monitoring data shall be electronically displayed at the entry point of the mine or at a suitable location of the mine.
-



26. Plantation of trees shall be undertaken in the colony/ township, over top soil dumps, OB dumps, along the side of haul road and in other areas of the mines not being utilized for mining activities. The mine shall take up avenue plantation and plantation in nearby village areas in consultation with DFO/Horticulture Department. The plantation details shall be submitted to the Board before end of April every year.
27. A copy of the annual return (annual return submitted to IBM, Govt. of India/ Directorate of Mines, Govt. of Odisha) shall be submitted to this Board every year.
28. The environmental statement report for the financial year ending 31st March shall be submitted to the Board in form -V on or before 30th September every year.

**CHIEF ENV. ENGINEER**  
**STATE POLLUTION CONTROL BOARD, ODISHA**

TO,

**SRI R. L. MOHANTY, MANAGING PARTNER**  
**PATABEDA IRON AND MANGANESE MINES (14 HA) OF**  
**M/S. M. G. MOHANTY**  
**2A, FOREST PARK,**  
**BHUBANESWAR, PIN: 751009**

Memo No. \_\_\_\_\_ /Dt. \_\_\_\_\_ /

Copy forwarded to :

- i) Regional Officer, State Pollution Control Board, **Rourkela**
- ii) District Collector, **Sundargarh**
- iii) Director of Mines, Govt. of Odisha, Bhubaneswar
- iv) Director, Environment-cum-Special Secretary, F & E. Dept. Govt. of Odisha, Bhubaneswar.
- v) D.F.O, **Bonai**
- vi) Deputy Director of Mines, **Koira**
- vii) Chief Env. Engineer (C), (Hazardous waste management cell)
- viii) Chief Env. Scientist, Central Lab. SPCB, Bhubaneswar
- ix) Consent Register

**SR. ENV. ENGINEER (L-I)**  
**STATE POLLUTION CONTROL BOARD, ODISHA**





## GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENTAL POLLUTANTS



**GENERAL STANDARDS FOR DISCHARGE OF  
ENVIRONMENTAL POLLUTANTS PART –A : EFFLUENTS**

| Sl.No. | Parameters                                              | Standards                                                  |               |                     |                                                                                                             |
|--------|---------------------------------------------------------|------------------------------------------------------------|---------------|---------------------|-------------------------------------------------------------------------------------------------------------|
|        |                                                         | Inland surface                                             | Public sewers | Land for irrigation | Marine Costal Areas                                                                                         |
|        |                                                         | (a)                                                        | (b)           | (c)                 | (d)                                                                                                         |
| 1.     | Colour&odour                                            | Colourless/Odourless as far as practicable                 | -----         | See 6 of Annex-1    | See 6 of Annex-1                                                                                            |
| 2.     | Suspended Solids (mg/l)                                 | 100                                                        | 600           | 200                 | For process wastewater – 100<br>b. For cooling water effluent 10% above total suspended matter of influent. |
| 3.     | Particular size of SS                                   | Shall pass 850                                             | -----         | -----               |                                                                                                             |
| 5.     | pH value                                                | 5.5 to 9.0                                                 | 5.5 to 9.0    | 5.5 to 9.0          | 5.5 to 9.0                                                                                                  |
| 6.     | Temperature                                             | Shall not exceed 5°C above the receiving water temperature | -----         | -----               | Shall not exceed 5°C above the receiving water temperature                                                  |
| 7.     | Oil & Grease mg/l max.                                  | 10                                                         | 20            | 10                  | 20                                                                                                          |
| 8.     | Total residual chlorine                                 | 1.0                                                        | -----         | -----               | 1.0                                                                                                         |
| 9.     | Ammonical nitrogen (as N) mg/l max.                     | 50                                                         | 50            | -----               | 50                                                                                                          |
| 10.    | Total Kjeldahl nitrogen (as NH <sub>3</sub> ) mg/1 max. | 100                                                        | -----         | -----               | 100                                                                                                         |
| 11.    | Free ammonia (as NH <sub>3</sub> ) mg/1 max.            | 5.0                                                        | -----         | -----               | 5.0                                                                                                         |
| 12.    | Biochemical Oxygen Demand (5 days at 20°C) mg/1 max.    | 30                                                         | 350           | 100                 | 100                                                                                                         |
| 13.    | Chemical Oxygen Demand, mg/1 max.                       | 250                                                        | -----         | -----               | 250                                                                                                         |
| 14.    | Arsenic (as As) mg/1 max.                               | 0.2                                                        | 0.2           | 0.2                 | 0.2                                                                                                         |
| 15.    | Mercury (as Hg) mg/1 max.                               | 0.01                                                       | 0.01          | -----               | 0.001                                                                                                       |
| 16.    | Lead (as pb) mg/1 max.                                  | 01.                                                        | 1.0           | -----               | 2.0                                                                                                         |





CONSENT ORDER  
PATABEDA IRON ORE MINE OF M/S. M. G. MOHANTY(14.0 Ha)

Page 12 of 13

|     |                                                                                              |                                                      |                                                      |                                                      |                                                      |
|-----|----------------------------------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| 17. | Cadmium (as Cd) mg/l max.                                                                    | 2.0                                                  | 1.0                                                  | -----                                                | 2.0                                                  |
| 18. | Hexavalent Chromium (as Cr + 6) mg/l max.                                                    | 0.1                                                  | 2.0                                                  | -----                                                | 1.0                                                  |
| 19. | Total Chromium (as Cr) mg/l max.                                                             | 2.0                                                  | 2.0                                                  | -----                                                | 2.0                                                  |
| 20. | Copper (as Cu) mg/l max.                                                                     | 3.0                                                  | 3.0                                                  | -----                                                | 3.0                                                  |
| 21. | Zinc (as Zn) mg/l max.                                                                       | 5.0                                                  | 15                                                   | -----                                                | 15                                                   |
| 22. | Selenium (as Se) mg/l max.                                                                   | 0.05                                                 | 0.05                                                 | -----                                                | 0.05                                                 |
| 23. | Nickel (as Ni) mg/l max.                                                                     | 3.0                                                  | 3.0                                                  | -----                                                | 5.0                                                  |
| 24. | Cyanide (as CN) mg/l max.                                                                    | 0.2                                                  | 2.0                                                  | 0.2                                                  | 0.02                                                 |
| 25. | Fluoride ( as F) mg/l max.                                                                   | 2.0                                                  | 15                                                   | -----                                                | 15                                                   |
| 26. | Dissolved Phosphates (as P) mg/l max.                                                        | 5.0                                                  | -----                                                | -----                                                | -----                                                |
| 27. | Sulphide (as S) mg/l max.                                                                    | 2.0                                                  | -----                                                | -----                                                | 5.0                                                  |
| 28. | Phenolic compounds as (C <sub>6</sub> H <sub>5</sub> OH) mg/l max.                           | 1.0                                                  | 5.0                                                  | -----                                                | 5.0                                                  |
| 29. | Radioactive materials<br>a. Alpha emitter micro curie/ml.<br>b. Beta emitter micro curie/ml. | 10 <sup>7</sup><br>10 <sup>6</sup>                   | 10 <sup>7</sup><br>10 <sup>6</sup>                   | 10 <sup>8</sup><br>10 <sup>7</sup>                   | 10 <sup>7</sup><br>10 <sup>6</sup>                   |
| 30. | Bio-assay test                                                                               | 90% survival of fish after 96 hours in 100% effluent | 90% survival of fish after 96 hours in 100% effluent | 90% survival of fish after 96 hours in 100% effluent | 90% survival of fish after 96 hours in 100% effluent |
| 31. | Manganese (as Mn)                                                                            | 2 mg/l                                               | 2 mg/l                                               | -----                                                | 2 mg/l                                               |
| 32. | Iron (Fe)                                                                                    | 3 mg/l                                               | 3 mg/l                                               | -----                                                | 3 mg/l                                               |
| 33. | Vanadium (as V)                                                                              | 0.2 mg/l                                             | 0.2 mg/l                                             | -----                                                | 0.2 mg/l                                             |
| 34. | Nitrate Nitrogen                                                                             | 10 mg/l                                              | -----                                                | -----                                                | 20 mg/l                                              |



### NATIONAL AMBIENT AIR QUALITY STANDARDS

| Sl. No. | Pollutants                                                                       | Time Weighed Average | Concentrate of Ambient Air                   |                                                              |                                                                        |
|---------|----------------------------------------------------------------------------------|----------------------|----------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------------------|
|         |                                                                                  |                      | Industrial Residential, Rural and other Area | Ecologically Sensitive Area (notified by Central Government) | Methods of Measurement                                                 |
| (1)     | (2)                                                                              | (3)                  | (4)                                          | (5)                                                          | (6)                                                                    |
| 1.      | Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup>                            | Annual *             | 50                                           | 20                                                           | -Improved west and Gaeke                                               |
|         |                                                                                  | 24 Hours **          | 80                                           | 80                                                           | - Ultraviolet fluorescence                                             |
| 2.      | Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup>                           | Annual *             | 40                                           | 30                                                           | - Modified Jacob &Hochheiser ( Na-Arsenite)                            |
|         |                                                                                  | 24 Hours **          | 80                                           | 80                                                           | - Chemiluminescence                                                    |
| 3.      | Particulate Matter (size less than 10µm) or PM <sub>10</sub> µg/m <sup>3</sup>   | Annual *             | 60                                           | 60                                                           | -Gravimetric                                                           |
|         |                                                                                  | 24 Hours **          | 100                                          | 100                                                          | - TOEM                                                                 |
|         |                                                                                  |                      |                                              |                                                              | - Beta Attenuation                                                     |
| 4.      | Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub> µg/m <sup>3</sup> | Annual *             | 40                                           | 40                                                           | -Gravimetric                                                           |
|         |                                                                                  | 24 Hours **          | 60                                           | 60                                                           | - TOEM                                                                 |
|         |                                                                                  |                      |                                              |                                                              | - Beta Attenuation                                                     |
| 5.      | Ozone (O <sub>3</sub> ) µg/m <sup>3</sup>                                        | 8 Hours **           | 100                                          | 100                                                          | - UV Photometric                                                       |
|         |                                                                                  | 1 Hours **           | 180                                          | 180                                                          | - Chemiluminescence                                                    |
|         |                                                                                  |                      |                                              |                                                              | - Chemical Method                                                      |
| 6.      | Lead (Pb) µg/m <sup>3</sup>                                                      | Annual *             | 0.50                                         | 0.50                                                         | -AAS/ICP method after sampling on EMP 2000 or equivalent filter paper. |
|         |                                                                                  | 24 Hours **          | 1.0                                          | 1.0                                                          | - ED-XRF using Teflon filter                                           |
| 7.      | Carbon Monoxide (CO) mg/m <sup>3</sup>                                           | 8 Hours **           | 02                                           | 02                                                           | - Non Dispersive Infra Red (NDIR)                                      |
|         |                                                                                  | 1 Hours **           | 04                                           | 04                                                           | Spectroscopy                                                           |
| 8.      | Ammonia (NH <sub>3</sub> ) µg/m <sup>3</sup>                                     | Annual*              | 100                                          | 100                                                          | -Chemiluminescence                                                     |
|         |                                                                                  | 24 Hours**           | 400                                          | 400                                                          | - Indophenol Blue Method                                               |
| 9.      | Benzene (C <sub>6</sub> H <sub>6</sub> ) µg/m <sup>3</sup>                       | Annul *              | 05                                           | 05                                                           | -Gas Chromatography based continuous analyzer                          |
|         |                                                                                  |                      |                                              |                                                              | - Adsorption and Desorption followed by GC analysis                    |
| 10.     | Benzo (a) Pyrene (BaP)-Particulate phase only, ng/m <sup>3</sup>                 | Annual*              | 01                                           | 01                                                           | -Solvent extraction followed by HPLC/GC analysis                       |
| 11.     | Arsenic (As), ng/m <sup>3</sup>                                                  | Annual*              | 06                                           | 06                                                           | -AAS/ICP method after sampling on EPM 2000 or equivalent filter paper  |
| 12.     | Nickel (Ni),ng/m <sup>3</sup>                                                    | Annual*              | 20                                           | 20                                                           | -AAS/ICP method after sampling on EPM 2000 or equivalent filter paper  |

\*\* Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

\*\* 24 hourly or 08 hourly or 01 hourly monitored values, as applicable, shall be complied with 98% of the time in a year, 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.





OFFICE OF THE PRINCIPAL CHIEF CONSERVATOR OF FORESTS (WILDLIFE)  
& CHIEF WILDLIFE WARDEN, ODISHA, BDA APARTMENT, 5<sup>TH</sup> FLOOR,  
PRAKRUTI BHAWAN, NILAKANTHA NAGAR, BHUBANESWAR-12

Ph. No.0674-2564587, FAX No.0674-2565062  
(Website:odishawildlife.org, E. mail: odishawildlife@gmail.com)

Annexure - 3

Memo No. 3468/1 WL-SSP-13/2015 Dated, Bhubaneswar, the 22 Apr, 2015

To

The Principal Chief Conservator of Forests, Odisha,  
Bhubaneswar

**Sub: Site specific Wildlife Conservation Plan in respect of Patabeda Iron Ore Mines of M/s M.G.Mohanty (14.00 Ha.) in Bonai Forest Division of Sundargarh District**

It is to inform you that M/s M.G.Mohanty has to implement a site specific wildlife conservation plan for its Patabeda Iron Ore mines (ML area 14.00 ha.) in Sundargarh district in compliance to the Specific condition No.(xiii) prescribed by Govt. of India, MoEF vide their letter No.J-11015/93/2004-IA.II(M) dt 21.7.2005 while granting Environment Clearance for the mining project.

2. The Site Specific Wildlife Conservation Plan in respect of the above project in Bonai Forest Division has been approved by the undersigned with financial forecast of **₹390.836 lakh** (Rupees three crore ninety lakh eighty-three thousand six hundred) only for the following activities.

- |                                                                                   |               |
|-----------------------------------------------------------------------------------|---------------|
| a. For activities to be implemented by the user agency in project area            | ₹76.536 lakh  |
| b. For activities to be implemented by DFO, Bonai Division in project impact area | ₹314.300 lakh |

**Grand Total: ₹390.836 lakh**

3. Various activities in the lease hold area will be executed by the Project proponent under the guidance of the Divisional Forest Officer, Bonai Division. A sum of ₹314.30 lakh only may be deposited in the CAMPA fund meant for the purpose for implementation of various activities within the project impact area by the Forest Deptt. as envisaged in the plan.

4. The User Agency may be advised to note the following conditions for future compliance.

- This Plan may be revisited after 5 years and the User Agency will give undertaking to contribute towards the revised cost of the conservation plan till the project period, if any.
- The project proponent has to prepare and submit the Conservation Plan for the next 10 years of their lease period (balance period for which forest land remains diverted) at least one year before the expiry of the present Conservation Plan and deposit the outlay amount upon its approval. In case of delay, the project operation will be automatically stopped.

**Encl: 2 copies of approved  
site specific WL Conservation Plan**

  
**Principal Chief Conservator of Forests (WL)  
& Chief Wildlife Warden, Odisha**

P.T.O.



Memo No. 3469 /date 22.04.2015

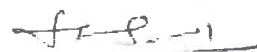
Copy forwarded to the Special Secretary to Government of Odisha, F&E Deptt., Bhubaneswar for favour of information.



**Principal Chief Conservator of Forests (WL)  
& Chief Wildlife Warden, Odisha**

Memo No. 3470 /date 22.04.2015

Copy forwarded to the Regional Chief Conservator of Forests, Rourkela Circle for information and necessary action with reference to his memo No.247 dt 9.2.2015.



**Principal Chief Conservator of Forests (WL)  
& Chief Wildlife Warden, Odisha**

Memo No. 3471 /date 22.04.2015

Copy forwarded to the Divisional Forest Officer, Bonai Division for information and necessary action with reference to memo No.249 dt 9.2.2015 of the RCCF, Rourkela Circle.

**Encl: 1 copy of approved  
site specific WL Conservation Plan**



**Principal Chief Conservator of Forests (WL)  
& Chief Wildlife Warden, Odisha**

Memo No. 3472 /date 22.04.2015

Copy forwarded to Sri N.R.Patnaik, G.M. Corporate, M/s M.G. Mohanty, 2A, Forest Park, Bhubaneswar-751009 for information and necessary action.

**Encl: 1 copy of approved  
site specific WL Conservation Plan**



**Principal Chief Conservator of Forests (WL)  
& Chief Wildlife Warden, Odisha**

# FORM - O

(See Rule 29 F (2) and 29 L)

## REPORT OF MEDICAL EXAMINATION UNDER RULE 29B

Certificate No.: **EH-0054**

Certified that, **SHRI DHARMANANDA JENA** employed as **SUPERVISOR** in **PATABEDA IRON MINES** of M/s. **M. G. MOHANTY** Form 'A' No **187** has been examined for an periodical medical examination. He/She appears to be **48** years of age. The findings of examining authority are given in the attached sheet. It is considered that, **SHRI DHARMANANDA JENA**

- a) ☒ is medically fit for any employment in mines
- b) ☒ is suffering from \_\_\_\_\_ and is medically unfit for
- i) any employment in mine, or
- ii) any employment below ground or
- iii) any employment or work
- c) ☒ is suffering from \_\_\_\_\_ and should get this disability cured / controlled\* and should be again examined within a period of \_\_\_\_\_ months. He/She will appear for re-examination with the result of tests of \_\_\_\_\_ and the opinion of \_\_\_\_\_ specialist from \_\_\_\_\_ He/She may be permitted / not permitted to carry on his/her duty during this period.



AADHAAR NO. : 352213496394

Signature of the Examining Authority  
Name and Designation in Block Letters

**Dr. Sourav Kumar De**  
Occupational Health Physician  
M383,DIH,PGCHM, Regd.No-54429 (WBMC)  
Trained in ILO Classification of Pneumoconiosis

Date : 23-01-2024

Place: EZMA, BARBIL

\* Delete whatever not applicable.

\*\* One copy of the certificate shall be handed over to the person concerned and other copy shall be sent to Manager of the Mine concerned by registered post and the third copy shall be retained by the examining authority.

# FORM - O (Contd...)

(See Rule 29F(2) and 29L)

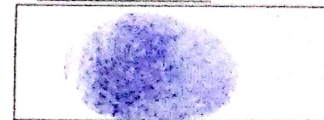
## REPORT OF MEDICAL EXAMINING AUTHORITY

(To be filled in for every medical examination whether initial or periodical or re-examination or after cure/control of disability)

Annexure to Certificate No.: **EH-0054** as a result of Medical Examination on **23-01-2024**

Identification of mark : **BLACK MOLE ON LT. CHEEK**

- General Development: **GOOD**
- Height: **152** cms. 3. Weight: **58** Kgs.
- Eyes : (i) Visual acuity-Distant vision (with or without glasses)  
Right eye: **6/6 With Glass** Left eye: **6/6 With Glass**  
ii) Any Organic Disease of Eye: **NO** iii) Night Blindness **NO**  
iv) Colour Blindness **NO** v) Squint **NO**  
(\* to be tested in special cases)
- Ears : i) Hearing : Right Ear : **NORMAL** Left Ear : **NORMAL**  
ii) any organic disease : **NO**
- Respiratory System : Chest Measurement : (i) after full inspiration : **88** cms.  
(ii) after full expiration : **82** cms.
- Circulatory System : Blood Pressure : **136/84** mm of Hg. Pulse **84** Per Minute
- Abdomen : Tenderness **NO** Liver **NOT PALPABLE**  
Spleen **NOT PALPABLE** Tumour **NO**
- Nervous System : History of fits or epilepsy: **NO** Paralysis : **NO** Mental Health : **GOOD**
- Locomotor system : **NAD**
- Skin : **NAD**
- Hernia : **NO**
- Hydrocele : **NO**
- Any other abnormality : **NAD**
- Urine : Reaction **ACIDIC** Albumin : **NIL** Sugar : **2.09gm%**
- Skiagram of Chest : **NORMAL**
- Any other 'C' test considered necessary by examining authority
- Any opinion of specialist considered necessary



Left Thumb Impression of the Candidate

**Audiometry :**  
Left : **NORMAL**  
Right: **NORMAL**

**P. F. T. :**  
**NORMAL**

**DIABETES MELLITUS ON MEDICATION**

**FAT FREE SALT REST. DIABETIC DIET**  
**REGULAR DIABETIC CHECKUP**  
**REGULAR PHYSICAL EXERCISE**  
**CONSTANT USE OF GLASSES**

**REFRACTIVE ERROR CORRECTED BY GLASSES**

Date : 23-01-2024

Place: EZMA, BARBIL

Signature of Examining Authority  
**Dr. Sourav Kumar De**  
Occupational Health Physician  
M383,DIH,PGCHM, Regd.No-54429 (WBMC)  
Trained in ILO Classification of Pneumoconiosis



Scanned with OKEN Scanner





## Annexure -5

भारत सरकार  
जल शक्ति मंत्रालय  
जल संसाधन, नदी विकास  
और गंगा संरक्षण विभाग  
केन्द्रीय भूमि जल प्राधिकरण  
Government of India  
Ministry of Jal Shakti  
Department of Water Resources,  
River Development & Ganga Rejuvenation  
Central Ground Water Authority

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र)

**NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION**

|                                   |                                                                                                                                 |        |        |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--------|--------|
| Project Name:                     | Patabeda Iron Ore Mines (14 Ha) Of M/s M G Mohanty                                                                              |        |        |
| Project Address:                  | Patabeda Iron Ore Mines 14 Ha Of M/s M G Mohanty, At/po Patabeda, Sub - Division Bonai                                          |        |        |
| Village:                          | Patbeda                                                                                                                         | Block: | Koida  |
| District:                         | Sundargarh                                                                                                                      | State: | Odisha |
| Pin Code:                         |                                                                                                                                 |        |        |
| Communication Address:            | R. L. Mohanty, M/s M. G. Mohanty, Mine Owners, 5-a, Forest Park, Bhubaneswar, Bhubaneswar, Khordha, Odisha - 751009             |        |        |
| Address of CGWB Regional Office : | Central Ground Water Board South Eastern Region, Bhujal Bhawan, Khandagiri Square, Nh-5, Bhubaneshwar, Khordha, Odisha - 750001 |        |        |

|                                                                                              |                                                                                               |                              |     |        |    |                    |                      |                          |        |                     |            |        |     |         |  |
|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------|-----|--------|----|--------------------|----------------------|--------------------------|--------|---------------------|------------|--------|-----|---------|--|
| 1.                                                                                           | NOC No.:                                                                                      | CGWA/NOC/MIN/REN/2/2022/7300 |     |        |    |                    |                      |                          |        |                     |            |        |     |         |  |
| 2.                                                                                           | Application No.:                                                                              | 21-4/1896/OR/MIN/2018        |     |        |    |                    | 3.                   | Category:<br>(GWRE 2020) |        |                     | Safe       |        |     |         |  |
| 4.                                                                                           | Project Status:                                                                               | Existing Ground Water        |     |        |    |                    | 5.                   | NOC Type:                |        |                     | Renewal    |        |     |         |  |
| 6.                                                                                           | Valid from:                                                                                   | 11/12/2022                   |     |        |    |                    | 7.                   | Valid up to:             |        |                     | 10/12/2024 |        |     |         |  |
| 8.                                                                                           | Ground Water Abstraction Permitted:                                                           |                              |     |        |    |                    |                      |                          |        |                     |            |        |     |         |  |
| Fresh Water                                                                                  |                                                                                               | Saline Water                 |     |        |    | Dewatering         |                      |                          |        | Total               |            |        |     |         |  |
| m³/day                                                                                       |                                                                                               | m³/year                      |     | m³/day |    | m³/year            |                      | m³/day                   |        | m³/year             |            | m³/day |     | m³/year |  |
| 15.00                                                                                        |                                                                                               | 5125.00                      |     |        |    |                    |                      |                          |        |                     |            |        |     |         |  |
| 9.                                                                                           | Details of ground water abstraction /Dewatering structures                                    |                              |     |        |    |                    |                      |                          |        |                     |            |        |     |         |  |
| Total Existing No.:1                                                                         |                                                                                               |                              |     |        |    |                    | Total Proposed No.:0 |                          |        |                     |            |        |     |         |  |
|                                                                                              |                                                                                               | DW                           | DCB | BW     | TW | MP                 | MPu                  | DW                       | DCB    | BW                  | TW         | MP     | MPu |         |  |
| Abstraction Structure*                                                                       |                                                                                               | 0                            | 0   | 1      | 0  | 0                  | 0                    | 0                        | 0      | 0                   | 0          | 0      | 0   |         |  |
| *DW- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; MP-Mine Pit;MPu-Mine Pumps |                                                                                               |                              |     |        |    |                    |                      |                          |        |                     |            |        |     |         |  |
| 10.                                                                                          | Ground Water Abstraction/Restoration Charges paid (Rs.):                                      |                              |     |        |    |                    |                      | 5125.00                  |        |                     |            |        |     |         |  |
| 11.                                                                                          | Number of Piezometers(Observation wells) to be constructed/ monitored & Monitoring mechanism. |                              |     |        |    | No. of Piezometers |                      | Monitoring Mechanism     |        |                     |            |        |     |         |  |
|                                                                                              |                                                                                               |                              |     |        |    |                    |                      | Manual                   | DWLR** | DWLR With Telemetry |            |        |     |         |  |
| **DWLR - Digital Water Level Recorder                                                        |                                                                                               |                              |     |        |    | 1                  |                      | 1                        | 0      | 0                   |            |        |     |         |  |

(Compliance Conditions given overleaf)

This is an auto generated document &amp; need not to be signed.

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011

Phone: (011) 23383561 Fax: 23382051, 23386743

Website: cgwa-noc.gov.in

पानी बचाये - जीवन बचाये  
SAVE WATER - SAVE LIFE

**Validity of this NOC shall be subject to compliance of the following conditions:**

**Mandatory conditions:**

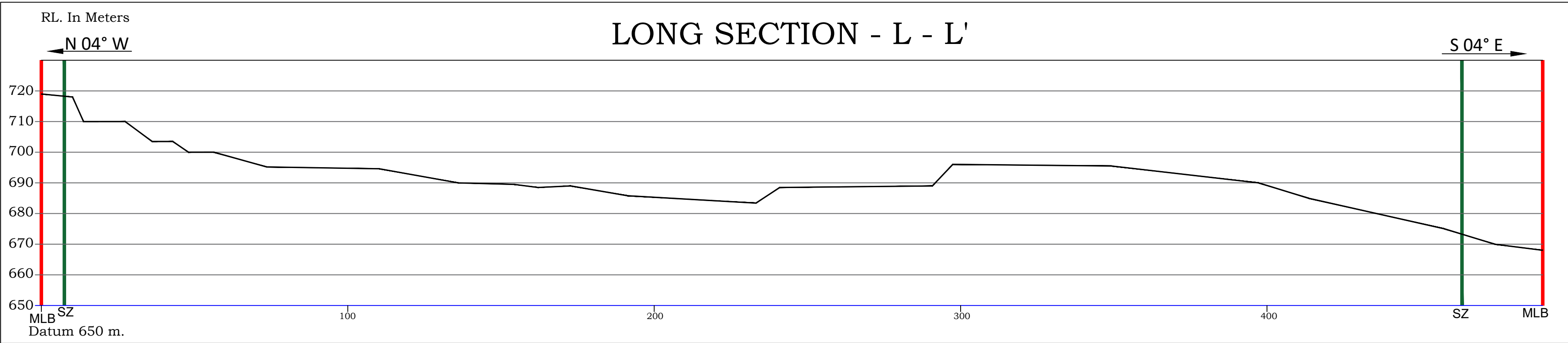
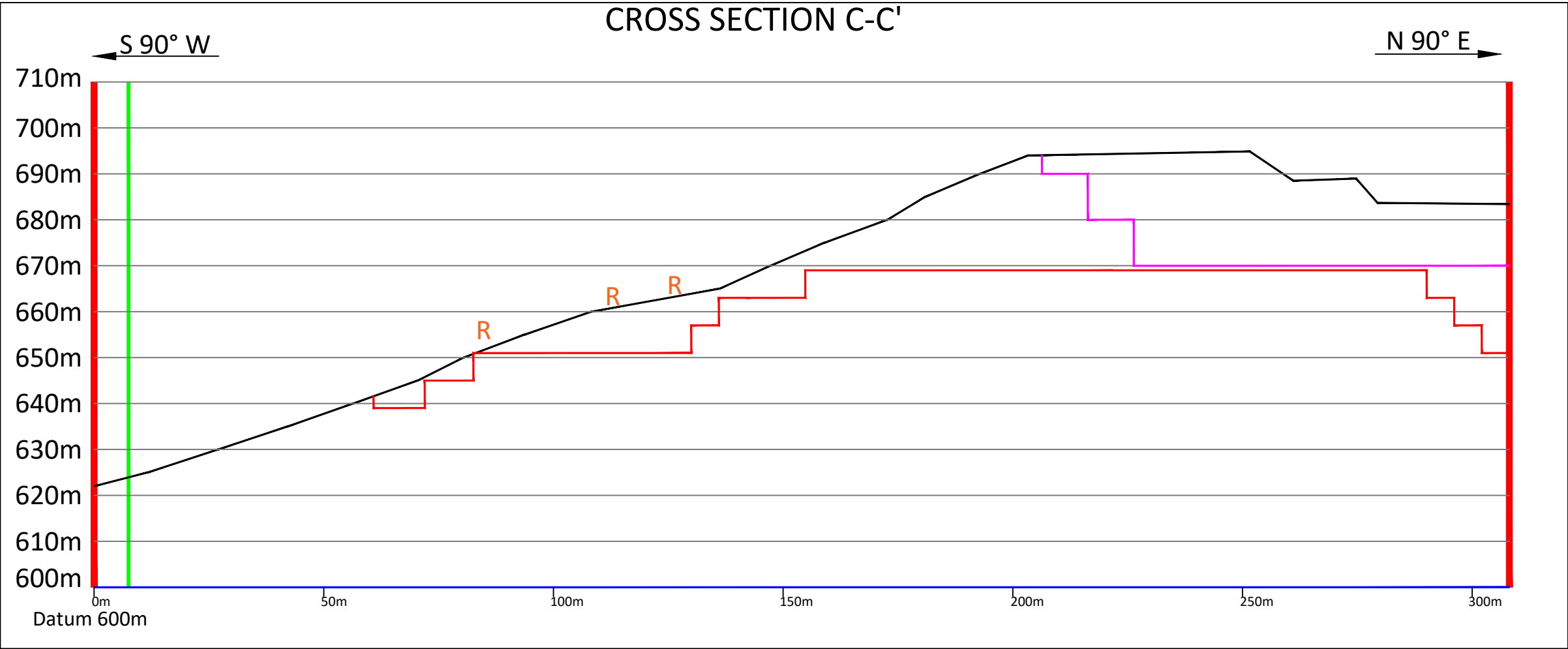
- 1) Installation of tamper proof digital water flow meter with telemetry on all the abstraction structure(s) shall be mandatory for all users seeking No Objection Certificate and intimation regarding their installation shall be communicated to the CGWA within 30 days of grant of No Objection Certificate.
- 2) Proponents shall mandatorily get water flow meter calibrated from an authorized agency once in a year.
- 3) Construction of purpose-built observation wells (piezometers) for ground water level monitoring shall be mandatory as per Section 14 of Guidelines. Water level data shall be made available to CGWA through web portal. Detailed guidelines for construction of piezometers are given in Annexure-II of the guidelines.
- 4) Proponents shall monitor quality of ground water from the abstraction structure(s) once in a year. Water samples from bore wells/ tube wells / dug wells shall be collected during April/May every year and analysed in NABL accredited laboratories for basic parameters (cations and anions), heavy metals, pesticides/ organic compounds etc. Water quality data shall be made available to CGWA through the web portal.
- 5) In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring four (4) times a year (January, May, August and November) in core as well as buffer zones of the mine.
- 6) In case of mining project the firm shall submit water quality report of mine discharge/ seepage from Govt. approved/ NABL accredited lab.
- 7) The firm shall report compliance of the NOC conditions online in the website ([www.cgwa-noc.gov.in](http://www.cgwa-noc.gov.in)) within one year from the date of issue of this NOC.
- 8) Industries abstracting ground water in excess of 100 m<sup>3</sup>/d shall undertake annual water audit through certified auditors and submit audit reports within three months of completion of the same to CGWA. All such industries shall be required to reduce their ground water use by at least 20% over the next three years through appropriate means.
- 9) Application for renewal can be submitted online from 90 days before the expiry of NOC. Ground water withdrawal, if any, after expiry of NOC shall be illegal & liable for legal action as per provisions of Environment (Protection) Act, 1986.
- 10) This NOC is subject to prevailing Central/State Government rules/laws/norms or Court orders related to construction of tube well/ground water abstraction structure / recharge or conservation structure/discharge of effluents or any such matter as applicable.

**General conditions:**

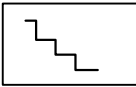
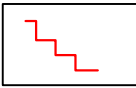
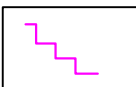
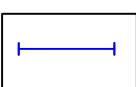
- 11) No additional ground water abstraction and/or de-watering structures shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).
- 12) The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more than that permitted in NOC for specific period).
- 13) Proponents shall install roof top rain water harvesting in the premise as per the existing building bye laws in the premise.
- 14) The project proponent shall take all necessary measures to prevent contamination of ground water in the premises failing which the firm shall be responsible for any consequences arising thereupon.
- 15) In case of industries that are likely to contaminate the ground water, no recharge measures shall be taken up by the firm inside the plant premises. The runoff generated from the rooftop shall be stored and put to beneficial use by the firm.
- 16) Wherever feasible, requirement of water for greenbelt (horticulture) shall be met from recycled / treated waste water.
- 17) Wherever the NOC is for abstraction of saline water and the existing wells (s) is /are yielding fresh water, the same shall be sealed and new tubewell(s) tapping saline water zone shall be constructed within 3 months of the issuance of NOC. The firm shall also ensure safe disposal of saline residue, if any.
- 18) Unexpected variations in inflow of ground water into the mine pit, if any, shall be reported to the concerned Regional Director, Central Ground Water Board.
- 19) In case of violation of any NOC conditions, the applicant shall be liable to pay the penalties as per Section 16 of Guidelines.
- 20) This NOC does not absolve the proponents of their obligation / requirement to obtain other statutory and administrative clearances from appropriate authorities.
- 21) The issue of this NOC does not imply that other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and take decisions independently of the NOC.
- 22) In case of change of ownership, new owner of the industry will have to apply for incorporation of necessary changes in the No Objection Certificate with documentary proof within 60 days of taking over possession of the premises.
- 23) This NOC is being issued without any prejudice to the directions of the Hon'ble NGT/court orders in cases related to ground water or any other related matters.
- 24) Proponents, who have installed/constructed artificial recharge structures in compliance of the NOC granted to them previously and have availed rebate of upto 50% (fifty percent) in the ground water abstraction charges/ground water restoration charges, shall continue to regularly maintain artificial recharge structures.
- 25) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, pharmaceutical, other hazardous units etc. (as per CPCB list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution as per Annexure III of the guidelines.
- 26) In case of new infrastructure projects having ground water abstraction of more than 20 m<sup>3</sup>/day, the firm/entity shall ensure implementation of dual water supply system in the projects.
- 27) In case of infrastructure projects, paved/parking area must be covered with interlocking/perforated tiles or other suitable measures to ensure groundwater infiltration/harvesting.
- 28) In case of coal and other base metal mining projects, the project proponent shall use the advance dewatering technology (by construction of series of dewatering abstraction structures) to avoid contamination of surface water.
- 29) The NOC issued is conditional subject to the conditions mentioned in the Public notice dated 27.01.2021 failing which penalty/EC/cancellation of NOC shall be imposed as the case may be.
- 30) This NOC is issued subject to the clearance of Expert Appraisal Committee (EAC) (if applicable).

**(Non-compliance of the conditions mentioned above is likely to result in the cancellation of NOC and legal action against the proponent.)**





**INDEX**

|                                                                                       |                                               |
|---------------------------------------------------------------------------------------|-----------------------------------------------|
|  | Mining Lease Boundary                         |
|  | Safety Zone                                   |
|  | Existing Profile                              |
|  | Ultimate Pit Limit                            |
|  | Pit Position at the End of 5th Year (2025-26) |
|  | Section Line                                  |
|  | ROAD                                          |

**WORKING SECTION**

|                    |                                                                               |
|--------------------|-------------------------------------------------------------------------------|
| Name of the Owner  | M/s. M. G. MOHANTY                                                            |
| Name of the Mine   | <a href="#">PATABEDA IRON MINES</a><br>Patabeda, Sundargarh District, Odisha. |
| ML. No : 1167      | M.L. AREA - 14.00 Ha.                                                         |
| SCALE - 1:1000 R.F | Date of Survey : 01/04/2022                                                   |

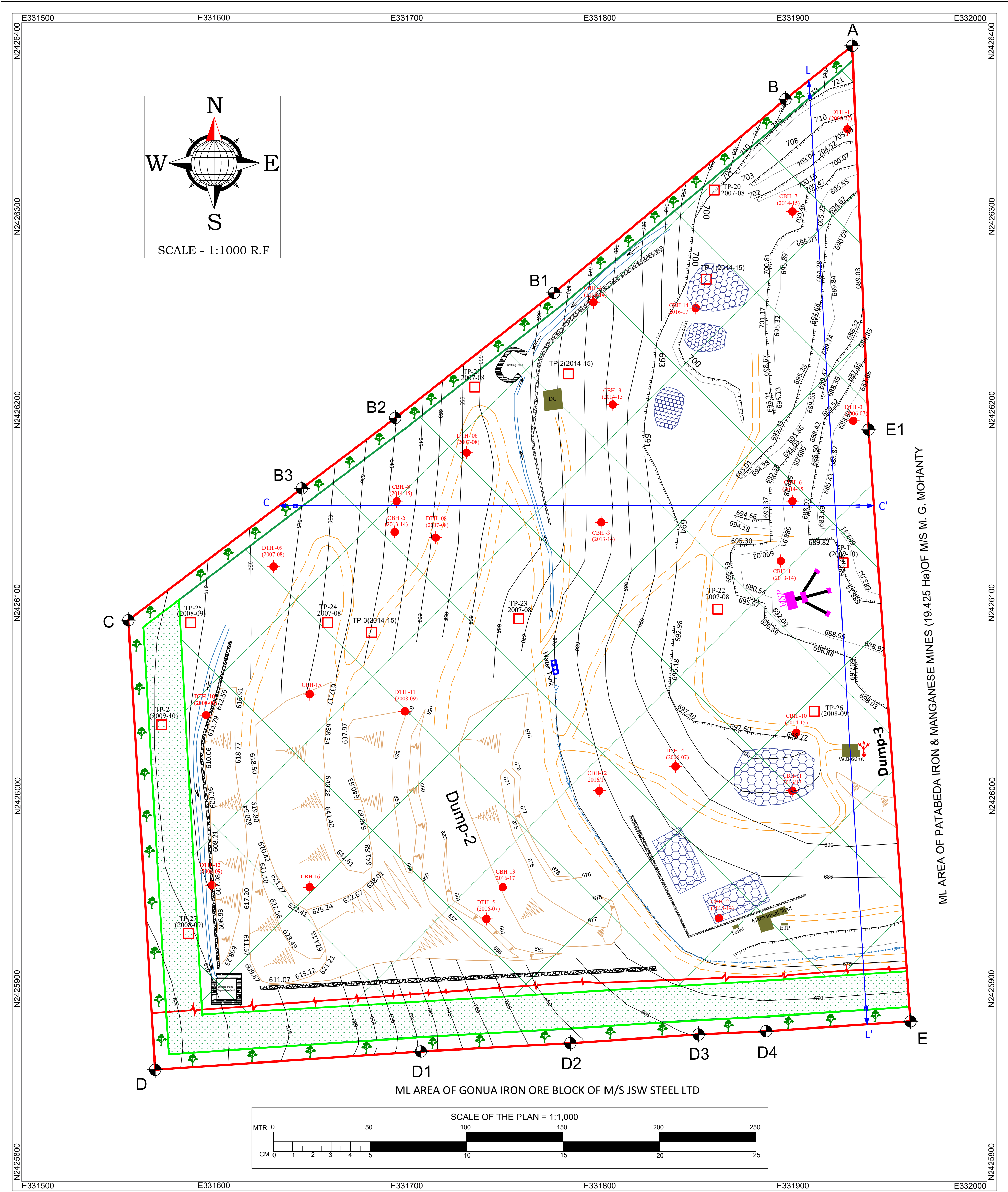
This is to certify that, the above section is correct and up to date.

Annexure-6

SUDAM JASH  
MINE SURVEYOR

K K MANDAL  
MINE MANAGER





| Sl. No. | Pillar No. | Geo-coordinates |                 | UTM coordinates |             |
|---------|------------|-----------------|-----------------|-----------------|-------------|
|         |            | Latitude        | Longitude       | Easting         | Northing    |
| 1       | ML-A       | 21°56'01.57494" | 85°22'21.57196" | 331930.187      | 2426388.062 |
| 2       | ML-B       | 21°56'00.66528" | 85°22'20.37847" | 331895.644      | 2426360.449 |
| 3       | ML-B1      | 21°55'57.36217" | 85°22'16.23687" | 331775.725      | 2426260.124 |
| 4       | ML-B2      | 21°55'55.22703" | 85°22'13.39593" | 331693.508      | 2426195.324 |
| 5       | ML-B3      | 21°55'54.02284" | 85°22'11.72166" | 331645.072      | 2426158.800 |
| 6       | ML-C       | 21°55'51.77431" | 85°22'08.61649" | 331555.235      | 2426090.594 |
| 7       | ML-D       | 21°55'44.20998" | 85°22'09.18585" | 331569.099      | 2425857.780 |
| 8       | ML-D1      | 21°55'44.56438" | 85°22'13.97897" | 331706.754      | 2425867.218 |
| 9       | ML-D2      | 21°55'44.73055" | 85°22'16.57419" | 331784.148      | 2425871.507 |
| 10      | ML-D3      | 21°55'44.90188" | 85°22'18.98842" | 331850.611      | 2425876.071 |
| 11      | ML-D4      | 21°55'44.96635" | 85°22'20.20591" | 331885.568      | 2425877.683 |
| 12      | ML-E       | 21°55'45.15980" | 85°22'22.80883" | 331960.322      | 2425882.840 |
| 13      | ML-E1      | 21°55'55.11402" | 85°22'21.94048" | 331938.653      | 2426189.245 |

Note-The Co-ordinate of Boundary Pillars are as per Joint Survey done by Odisha Space Applications Center

| INDEX |                               |
|-------|-------------------------------|
|       | M.L. BOUNDARY                 |
|       | 7.5m SAFETY ZONE              |
|       | BENCHES                       |
|       | ROAD                          |
|       | DUMP                          |
|       | TOE WALL                      |
|       | GARLAND DRAIN                 |
|       | INFRASTRUCTURE                |
|       | SURFACE RIGHT ACQUIRED        |
|       | GREEN BELT                    |
|       | CONTOURS                      |
|       | SPOT R.L.                     |
|       | UTM GRIDS                     |
|       | BOREHOLE                      |
|       | TRIAL PIT                     |
|       | UNDER GROUND 11 KV POWER LINE |
|       | WATER PIPE LINE               |
|       | TEMPORARY MINERAL STOCK       |
|       | LIGHTENING ARRESTER           |

Plan No.:MGM/PIM/2021-22/SP/01

| S U R F A C E P L A N                                              |                                                               |
|--------------------------------------------------------------------|---------------------------------------------------------------|
| Name of the Owner                                                  | M/s. M. G. MOHANTY                                            |
| Name of the Mine                                                   | PATABEDA IRON MINES<br>Patabeda, Sundargarh District, Odisha. |
| ML. No : 1167                                                      | M.L. AREA - 14.00 Ha.                                         |
| SCALE - 1:1000 R.F                                                 | Date of Survey : 01/04/2022                                   |
| This is to certify that, the above plan is correct and up to date. |                                                               |
| SUDAM JASH<br>MINE SURVEYOR                                        | K K MANDAL<br>MINE MANAGER                                    |



**CONSTITUTION OF ENVIRONMENTAL CELL**

For overseeing the timely and proper compliance under Environment and pollution control laws as well as the action on the directives of MOEF & CC and Odisha State Pollution Control Board, there under from time to time, the Environmental Cell of M/s M.G. Mohanty, Patabeda Iron and Mn. Mines over 19.425 ha. in Patabeda village, Tahasil: Koirā, District Sundergarh is hereby constitute consisting of the following Employees of the firm:

| Sl No. | Name of The Employee    | Qualification                                         | Contact No. |
|--------|-------------------------|-------------------------------------------------------|-------------|
| 1      | Tanuj Mohanty           | MBA (Finance & Operation)                             | 9437047077  |
| 2      | Chandra Bhanu Das       | M.Sc.Tech (Applied Geology)                           | 9437019019  |
| 3      | Sambhu Prasad Mishra    | M.Sc.(Env.)MBA, LLB                                   | 7008495676  |
| 4      | Dillip Kumar Pattanayak | M.Sc.(Geology) PGDCS                                  | 7440015245  |
| 5      | Kiran Kumar Mandal      | 1 <sup>st</sup> Class Mines Manager, MBA (Envn. Mgt.) | 7440015266  |
| 6      | Mahendra Mohanty        | 1 <sup>st</sup> Class Mines Manager                   | 7440015202  |
| 7      | Ambuja Kumar Nanda      | PGDCA                                                 | 7440015237  |
| 8      | Saroj Kumar Shaw        | Diploma in Mining                                     | 7440015220  |
| 9      | Nirod Kumar Mohanty     | Diploma in Survey                                     | 9438175611  |

The incumbents of the Environmental Cell will carry their above responsibility in addition to their normal duties and responsibility as assigned.

The Environmental Cell is free to invite any employee(s) to its meetings if they feel it is necessary.

**For M/s M.G. Mohanty**

  
**(R.L. Mohanty)**  
**Managing Partner**

Copy to: The Agent, The Mine Manager, Notice Board of Mines Office and Head Office.

2023-24  
(A) PREPHARIAL DEVELOPMENT EXPENSES

|         |                                                                                                         | CER Expenses<br>Year 2023-24 |
|---------|---------------------------------------------------------------------------------------------------------|------------------------------|
| Sl. No. | Details of Project                                                                                      |                              |
|         | Teachers Salary for Ganua Seva Shrama School, Guruda Maktab School, Patabeda Project Primary School and |                              |
| 1       | Kenaveta Project Primary School for the Month of April 2023 to March'24                                 | 203923.2                     |
|         | Teacher salary Govt. U.G Highschool Mandajoda                                                           | 72000                        |
| 2       | Donation paid to following 9 Nos. S.H. Group of Different Village)                                      | 0                            |
| (a)     | Maa Parbati S.H.G.(Gonua)                                                                               | 12000                        |
| (b)     | Maa Laxmi S.H.G.                                                                                        | 12000                        |
| ( c)    | Maa Tarini S.H.G.(Gonua)                                                                                | 12000                        |
| (d)     | Maa Saraswati S.H.G.                                                                                    | 12000                        |
| (e)     | Padmalaya S.H.G,                                                                                        | 12000                        |
| (f)     | Maa Binapani S.H.G                                                                                      | 12000                        |
| (g)     | Maa Parbati S.H.G.(Sunaposi)                                                                            | 12000                        |
| (h)     | Jai Maa Tarini S.H.G.(Deoghar)                                                                          | 12000                        |
| (i)     | Swapneswari S.H.G                                                                                       | 12000                        |
|         | Maa Tarani Trust                                                                                        | 11600                        |
|         | Development fee to Dharanidhar High School, Guruda                                                      | 48000                        |
|         | School Vehicle Hire Charges(Dibakar Naik)                                                               | 217800                       |
|         | Sports Materials & Financial help for sporting club.                                                    | 29193.336                    |
|         | Mid-Day Meal for Govt.U.G.High school,Mandojoda                                                         | 80000                        |
|         | Bijaya Pharma (H.O)                                                                                     | 23917.2                      |
|         | Dr.Kananbala Panda consultancy fees                                                                     | 345600                       |
|         | Health Camp                                                                                             | 271091.6                     |
|         | Envirnmental Expenses:-                                                                                 | 0                            |
|         | STP/ETP Exp                                                                                             | 172281.02                    |
|         | Air,Water & Noise Analysis Charges by Supco.(14.000Ha)                                                  | 1200000                      |
|         | Maintainace of Garden & Plantation(14.000Ha)                                                            | 633375                       |
|         | Maintainace of Garland Drain & Setting Pit(14.000Ha)                                                    | 738450                       |
|         | Water sprinkling Outside Mines village(14.000Ha)                                                        | 1080000                      |
|         | Sambhu prasad Mishra (Environmental Clearance Report)                                                   | 40000                        |
|         | Dispensary expenses                                                                                     | 560000                       |
|         | Total                                                                                                   | 5835231.356                  |
|         |                                                                                                         | 60 Lakhs                     |
|         | GT                                                                                                      |                              |



## PHOTOGRAPHS



**PHOTOGRAPH: 1 PHOTOGRAPH SHOWING SAFETY ZONE PLANTATION**



**PHOTOGRAPH: 2 PHOTOGRAPH SHOWING DUMP AREA**





**PHOTOGRAPH: 3 PHOTOGRAPH SHOWING RETAINING WALL**



**PHOTOGRAPH: 4 PHOTOGRAPH SHOWING GARLAND DRAIN**





**PHOTOGRAPH: 5 PHOTOGRAPH SHOWING DUMP TOE PLANTATION**



**PHOTOGRAPH: 6 PHOTOGRAPH SHOWING VIEW OF SETTLING POND**



**PHOTOGRAPH: 7 PHOTOGRAPH SHOWING VIEW OF RECHARGE POND**



**PHOTOGRAPH: 8 PHOTOGRAPH SHOWING VIEW OF WET DRILLING**



**PHOTOGRAPH: 9 PHOTOGRAPH SHOWING VIEW OF SERVICE ROAD**





**PHOTOGRAPH: 10 PHOTOGRAPH SHOWING VIEW OF WATER SPRINKING**



**PHOTOGRAPH: 11 PHOTOGRAPH SHOWING VIEW OF EFFLUENT TREATMENT PLANT AND SEWAGE TREATMENT PLANT**