

Six Monthly (DEC-2023) Compliance Report for Period April 2023 to September 2023 for Expansion of Integrated Steel Plant (1.0 Million TPA To 2.0 Million TPA Finished Steel) With 385 MW Captive Power Plant at Mouza: Amba, Mathurakismat, Ghoshalchak, Radhanagar, Serampurgia, Mollarchak, Katapole, Tarabamni And Dhularchak, Village – Gokulpur, P.O – Shyamraipur, P.S – Kharagpur (L) Dist. Paschim Medinipur, West Bengal (EC Identification No. EC22A008WB158432 dated: 11.10.2022)

1 message

ORISSA METALLURGICAL PRIVATE LIMITED <orissametallurgicalpvtltd@gmail.com> Thu, Nov 30, 2023 at 3:21 PM
To: "roez.bsr-mef@nic.in" <roez.bsr-mef@nic.in>, iro.kolkata-mefcc@gov.in, ms@wbpcb.gov.in, Monitoring Cell <monitoring-ec@nic.in>
Bcc: omp11.environment@rashmigroup.co.in, Biswanath Sharma <biswanath@rashmigroup.com>, Bijayen Srivastava <bijayen.srivastava@rashmigroup.com>

Dear Sir,

With reference to the above, we are here by submitting the six monthly compliance reports for the period from April 2023 to September 2023 for EC Identification No. EC22A008WB158432 issued vide File No- **IA-J-11011/56/2017-IA-II (I) dated: 11.10.2022** for Expansion of Integrated Steel Plant (1.0 Million TPA To 2.0 Million TPA Finished Steel) With 385 MW Captive Power Plant by M/s Orissa Metallurgical Industry Pvt. Ltd., located at Mouza – Amba, Mathurakismat, Ghoshalchak, Radhanagar, Serampurgia, Mollarchak, Katapole, Tarabamni And Dhularchak, Village – Gokulpur, P.O – Shyamraipur, P.S – Kharagpur (L) Dist. Paschim Medinipur, West Bengal

We assure that we will comply with all the conditions laid down in the consent letter and also abide to follow all the Rules & Regulations.

Hope you will find the same in order.

Thanking you.

Yours Faithfully

With Warm Regards,
Authorised Signatory

M/s. Orissa Metallurgical Industry Private Limited
(Previously Bansal Cement Private Limited)

Room No. 3B, 1 Garstin Place, Kolkata-700001, West Bengal

Mbl. No-7044070948

 **COMPLIANCE-DEC-2023.pdf**
9303K

Ref:-OMIPL/ENV COMPL/DEC2023

Date: 30.11.2023

To,

- a) **Regional Office,
Ministry of Environment, Forests & Climate Change, Bhubaneswar
A/3 Chandrasekharapur,
Bhubaneswar – 751023, Odisha**
- b) **Sub Office, Kolkata
(Under Regional Office, MoEF&CC, Bhubaneswar)
Kolkata IB – 198, Sector-III, Salt Lake City– 700106,
West Bengal**

Sub. Six Monthly (DEC-2023) Compliance Report for Period April 2023 to September 2023 for Expansion of Integrated Steel Plant (1.0 Million TPA To 2.0 Million TPA Finished Steel) With 385 MW Captive Power Plant at Mouza: Amba, Mathurakismat, Ghoshalchak, Radhanagar, Serampurgia, Mollarchak, Katapole, Tarabamni And Dhularchak, Village – Gokulpur, P.O – Shyamraipur, P.S – Kharagpur (L) Dist. Paschim Medinipur, West Bengal

Ref: - EC Identification No. EC22A008WB158432 dated: 11.10.2022.

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We assure that we will comply all the conditions laid down in the consent letter and also abide to follow all the Rules & Regulations.

Hope you will find the same in order.

Thanking you.

Yours Faithfully,

For, **M/s Orissa Metallurgical Industry Private Limited**

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

Authorized Signatory

Director / Authorized Signatory

C.C:-

1. **The Member Secretary, West Bengal Pollution Control Board, Parivesh Bhawan, 10A Block – LA, Sector – III, Kolkata – 700091**

Enclosures:-

1. Compliance Report for EC;
2. Stack emission monitoring report as Annexure- I
3. Green belt development detail is enclosed as Annexure-II.
4. CAAQMS report from all the four stations as Annexure-III.
5. Latest Ambient Air Quality Monitoring Analysis reports as Annexure-IV.
6. Fugitive Emissions monitoring report as Annexure-V.
7. Ground Water analysis report is annexed as Annexure VI.
8. Ambient Noise & Source Noise Monitoring Reports is annexed as Annexure-VII.
9. The OHS Record is annexed as Annexure-VIII.
10. TCLP test of Dolochar is annexed as Annexure-IX.

**SIX MONTHLY COMPLIANCE REPORT
(December-2023)**

FOR

**Project Name- Expansion of Integrated
Steel Plant (1.0 Million TPA To 2.0
Million TPA Finished Steel) With 385
MW Captive Power Plant by M/s Orissa
Metallurgical Industry Pvt. Ltd.,**

**EC NO- IA-J-11011/56/2017-IA-II (I) dated:
11.10.2022**

**Location: - Mouza – Amba, Mathurakismat,
Ghoshalchak, Radhanagar, Serampurgia, Mollarchak,
Katapole, Tarabamni And Dhularchak, Village –
Gokulpur, P.O – Shyamraipur, P.S – Kharagpur (L)
Dist. Paschim Medinipur, West Bengal**

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

Director/Authorized Signatory

M/s ORISSA METALLURGICAL INDUSTRY PVT. LTD.

**Room No. 3B, 1 Garstin Place,
Kolkata-700001, West Bengal**

Email id - orissametallurgicalpvtltd@gmail.com

Your application has been **Submitted** with following details

| | |
|--|-------------------------------|
| Proposal No | IA/WB/IND/285991/2017 |
| Compliance ID | 26096206 |
| Compliance Number(For Tracking) | EC/M/COMPLIANCE/26096206/2023 |
| Reporting Year | 2023 |
| Reporting Period | 01 Dec(01 Apr - 30 Sep) |
| Submission Date | 30-11-2023 |
| IRO Name | ARTATRANA MISHRA |
| IRO Email | jhk109@ifs.nic.in |
| State | WEST BENGAL |
| IRO Office Address | Budgam |

Note:- SMS and E-Mail has been sent to ARTATRANA MISHRA, WEST BENGAL with Notification to Project Proponent.


[Back](#)

View Compliance Report at Project Proponent

Proposal Details

| | | | |
|----------------------------------|---|--|---|
| Proposal No | IA/WB/IND/285991/2017 | Category | Industrial Projects - 1 |
| Proposal Name | Expansion of Integrated Steel Plant (1.0 Million TPA to 2.0 Million TPA Finished Steel) With 385 MW Captive Power Plant | | |
| Plot / Survey/ Khasra No. | | Village(s) | |
| Sub-District(s) | | | |
| State | WEST BENGAL | District | MEDINIPUR?WEST |
| MoEF File No | IA-J-11011/56/2017-IA-II(I) | Name of the Entity/ Corporate Office | Expansion of Integrated Steel Plant (1.0 Million TPA to 2.0 Million TPA Finished Steel) With 385 MW Captive Power Plant |
| Entity's PAN | NA | Entity details mentioned above is correct ? | Agree |
| Entity Name as per PAN | NA | | |

Covering Letter

Covering Letter [Click to View](#)

Compliance Reporting Details

| | | | |
|-----------------------|--|-------------------------|-------------------------|
| Reporting Year | 2023 | Reporting Period | 01 Dec(01 Apr - 30 Sep) |
| Remark(if any) | Compliance Report for Period from April 2023 to September 2023 for the 'Expansion of Integrated Steel Plant (1.0 Million TPA to 2.0 Million TPA Finished Steel) With 385 MW Captive Power Plant' at Mouza: Amba, Mathurakismat, Ghoshalchak, Radhanagar, Serampurgia, Mollarchak, Katapole, Tarabamni And Dhularchak, Village ? Gokulpur, P.O ? Shyamraipur, P.S ? Kharagpur (L) Dist. Paschim Medinipur, West Bengal. | | |

Details of Production and Project Area

Date of Commencement of Project/Activity 17-10-2023

| | | |
|--|--|---|
| | Project Area as per EC Granted(ha.) | Actual Project Area in Possession(ha.) |
|--|--|---|

| | | |
|--------------|--------|--------|
| Private | 147.71 | 147.71 |
| Revenue Land | 0 | 0 |
| Forest | 0 | 0 |
| Others | 0 | 0 |
| Total | 147.71 | 147.71 |

PRODUCTION CAPACITY

| Sr.No. | Name of the Product | Units | As per EC Granted | As per CTO Granted | CTO ID | Valid Up To | Production during last financial year |
|--------|--|-------------------------------|-------------------|--------------------|----------|-------------|---------------------------------------|
| 1 | METALLURGICAL COKE | Million Tons per Annum (MTPA) | 0.55 | - | - | | - |
| 2 | TMT BAR, WIRE & WIRE ROD | Million Tons per Annum (MTPA) | 0.8 | - | - | | - |
| 3 | CAPTIVE POWER (CFBC) | MW | 135 | - | - | | - |
| 4 | HR PRODUCT (FLAT,COIL); SEAMLESS PIPE; GALVANISED/GALVALUME/ COLOUR COATED PRODUCT | Million Tons per Annum (MTPA) | 1.2 | - | - | | - |
| 5 | RAILWAY SIDING | Others:NUMBER | 01 | - | - | | - |
| 6 | HOT LIQUID METAL/ PIG IRON | Million Tons per Annum (MTPA) | 0.75 | - | - | | - |
| 7 | SINTER | Million Tons per Annum (MTPA) | 1.29 | - | - | | - |
| 8 | M.S. BILLETS & SLAB | Million Tons per Annum (MTPA) | 2.16 | - | - | | - |
| 9 | FERRO ALLOY (FeMn, SiMn, FeCr & FeSi) | Million Tons per Annum (MTPA) | 0.18 | - | - | | - |
| 10 | CALCINED LIME & DOLOMITE | Tons per Day (TPD) | 300 | - | - | | - |
| 11 | OXYGEN | Tons per Day (TPD) | 400 | - | - | | - |
| 12 | WASHED COAL | Million Tons per Annum (MTPA) | 2.1 | - | - | | - |
| 13 | PRODUCER GAS | Cu.M/Hr | 37500 | - | - | | - |
| 14 | SPONGE IRON | Million Tons per Annum (MTPA) | 2.9 | 0.561 | CO144053 | 31-10-2028 | - |
| 15 | CAPTIVE POWER (WHRB) | MW | 250 | 60 | CO144053 | 31-10-2028 | - |

Conditions

Specific Conditions

| Sr.No. | Condition Type | Condition Details | Status of Compliance, Remarks/Reason and Supporting Documents | |
|--------|---|--|---|---|
| 1 | Statutory compliance | The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented. | PPs Submission | The project is still in construction phase. Only 2 x 350 + 2 x 500 TPD DRI along with WHRB based CPP 60 MW is in operation after obtain valid CTO. All the environmental protection measures and safeguards proposed during construction phase & operational phase (i.e. use of movable water tanker, sweeping machine, water mist fog canon system installation of APCD like ESP bag filter WHRB etc.) being complied Agreed to Comply Attachment: NA |
| 2 | AIR QUALITY MONITORING AND PRESERVATION | The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard. | PPs Submission | Consent obtained for 2 x 350 + 2 x 500 TPD DRI along with WHRB based CPP 60 MW dated on 17-10-2023. Waste gases generated from DRI are oxide of carbon which is utilizing in WHRB Boiler for power generation. The flue gas generated from balance EC accorded project i.e. Blast Furnace, Coke Oven Plant, Sinter, DRI; Lime & Dolo Plant will be utilized in various units like in BF, Sinter, Coke Oven Plant, Ferro Plant, power generation etc up to extent possible as proposed in EIA/EMP report. Plantation is a suitable method to sequester carbon and 33.24 % of the plant area shall be developed under greenbelt. Details of Carbon Sequestration is submitted to IRO, MoEF&CC vide letter no- OMIPL/ENV COMPL/JUNE 2023 dated 25.05.2023. Being Complied Attachment: NA |
| 3 | WASTE MANAGEMENT | Rejects from coal washery shall only be used either in the captive power plant (or) in the Thermal Power Plants meeting emission standards. | PPs Submission | Coal washery plant yet not commissioned. Reject from coal washery will be used in (Coal & Dolochar Mix) based CPP Agreed to Comply Attachment: NA |
| 4 | WASTE MANAGEMENT | Solid waste utilization --PP shall install a slag crusher to | PPs Submission | ---3 x 40 TPH Slag crushing unit adopted for metal recovery from |

| | | | | |
|----|---|--|----------------|---|
| | | convert steel slag into aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in cement making. --PP shall recycle/reuse solid waste generated in the plant as far as possible --Used refractories shall be recycled as far as possible | | slag and all other guidelines will be complied. ---Generated dolochar being used in CFBC boiler of associate company. Dusts from APC Device are being used in sinter plant of associate company, land levelling and brick making. Agreed to Comply Attachment: NA |
| 5 | ENERGY PRESERVATION MEASURES | Sinter Plant shall be equipped with Sinter cooler waste recovery system and suitable technology for control of dioxins and furans emissions from the plant | PPs Submission | Agreed and will be complied once the project comes in operation Agreed to Comply Attachment: NA |
| 6 | WASTE MANAGEMENT | Tar shall be recovered from producer gas and shall be sold to registered processors and Phenolic water from PGP shall be treated for phenol, tar and cyanide. | PPs Submission | Agreed and will be complied once the project comes in operation Agreed to Comply Attachment: NA |
| 7 | Statutory compliance | Coke oven plant shall be equipped with modified wet quenching system. | PPs Submission | Plant/Process design will be made keeping in record the said condition. The stipulated conditions will be complied by the project proponent Agreed to Comply Attachment: NA |
| 8 | ENERGY PRESERVATION MEASURES | Blast Furnaces shall be equipped with Top Recovery Turbine (capacity more than 450 m3), dry gas cleaning plant, stove waste heat recovery, cast house and stock house ventilation system and slag granulation facility. | PPs Submission | Blast furnace will be equipped with Top Recovery Turbine and all other mentioned parameter will be complied. Agreed to Comply Attachment: NA |
| 9 | AIR QUALITY MONITORING AND PRESERVATION | Basic Oxygen Furnace (BOF) gas shall be cleaned dry | PPs Submission | The said condition will be complied once the project comes in operation. Agreed to Comply Attachment: NA |
| 10 | AIR QUALITY MONITORING AND PRESERVATION | EAF shall be closed type and fourth hole extraction system shall be included for fume control from these furnaces | PPs Submission | The said condition will be taken care of at the time of finalizing the plant /process design. Agreed to Comply Attachment: NA |

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|----|---|---|----------------|--|
| 11 | ENERGY PRESERVATION MEASURES | 85-90 % of billets shall be rolled directly in hot stage. RHF shall operate using only Light Diesel Oil or Mixed BF/CO gas/Producer gas. | PPs Submission | Agreed and will be complied once the project comes in operation. Agreed to Comply Attachment: NA |
| 12 | WATER QUALITY MONITORING AND PRESERVATION | Cold Rolling Mill (CRM), color coating and galvanizing plants shall have CETP to treat and recycle the treated water from CRM complex. Sludge generated at CRM ETP shall be sent to TSDF. Acid recovery plant shall be provided in CRM. | PPs Submission | Agreed and will be complied once the project comes in operation. Effluent from Process will be treated in ETP plant and treated water will be reused in plant process. Acid recovery plant will be installed to recover acid. Agreed to Comply Attachment: NA |
| 13 | AIR QUALITY MONITORING AND PRESERVATION | Dust emission from Steel Plant stacks shall be up to 30 mg/Nm ³ | PPs Submission | As stated in point iv (b), currently 2 x 500 + 2 x 350 TPD DRI is under operational phase & APCD are designed to meet the latest emission norms of less than 30 mg/Nm ³ . Latest stack emission report carried by NABL accredited laboratory is attached Being Complied Attachment: Click to View |
| 14 | AIR QUALITY MONITORING AND PRESERVATION | Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Regional Office of the MoEF&CC. | PPs Submission | Currently 2 x 500 + 2 x 350 TPD DRI is under operational phase after obtaining Consent to Operate on 17.10.2023 from WBPCB and balance EC accorded in under construction stage in phase manner. Latest stack emission report carried by NABL accredited laboratory for operation plant is attached. Being Complied Attachment: Click to View |
| 15 | ENERGY PRESERVATION MEASURES | Recuperator shall be installed to recover heat from BF stove waste gas and used for stove gas reheating reducing requirement of fuel gas. | PPs Submission | Recuperator will be installed to recover heat from BF stove waste gas. The said condition will be taken care of at the time of finalizing the plant/process design. Agreed to Comply Attachment: NA |
| 16 | WATER QUALITY MONITORING AND PRESERVATION | The company shall also undertake rain water harvesting measures as per the plan submitted and reduce water dependence from the outside source. | PPs Submission | Rainwater harvesting structure is proposed for the plant and has already been implemented for EC accorded project. Agreed to Comply Attachment: Click to View |

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|----|---|---|----------------|---|
| 17 | Statutory compliance | 85% of raw materials and finished goods shall be transported by dedicated railway siding facility. In the event of delay in establishment of dedicated railway line, PP shall use another railway siding facility of Rashmi Group. | PPs Submission | In-principal approval for setting up the proposed private railway siding has been obtained from South Eastern Railway vide letter no. GW/1/OMIPL-NWOSC(IPA)/159 dated 08.08.2022. Also ESP, SIP & OHE approval and construction clearance obtained from Indian Railway. Construction work already started Agreed to Comply Attachment: Click to View |
| 18 | Statutory compliance | The total water requirement of 13,200 KLD will be obtained from Kansabati River & rain water harvesting structure. No ground water abstraction is permitted. | PPs Submission | The raw water would be sourced from Kansabati river (13,200 KLD @ 342 days) and Rain Water Harvesting pond (13,200 @ 23 days). Water permission obtained from Irrigation & water Department, West Bengal from Kansai River Bed (22,248 KLD for 08 months or 243 days) vide letter no- 167-I/I-4M-05/14(Pt.II) dated 16.10.2020 in name of M/s Orissa Metaliks Pvt. Ltd. (Holding company of M/s Orissa Metallurgical Industry Pvt. Ltd.). After taking into consideration the interest and financial share cost, laying of pipeline, infrastructure development for water project had been done by holding company for meeting the water demand of M/s Orissa Metallurgical Industry Pvt. Ltd. Copy of water permission and schematic water distribution pattern is already submitted to IRO, MoEF&CC vide letter no- OMIPL/ENV COMPL/JUNE 2023 dated 25.05.2023. Being Complied Attachment: NA |
| 19 | WATER QUALITY MONITORING AND PRESERVATION | 02 Nos. rain water harvesting pond exist is within project site. Also, Kansabati River, other rainwater harvesting structures and ponds exists within the study area of 10 km from the project site. The water bodies shall not be disturbed. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented. | PPs Submission | As stated in point xvi rainwater harvesting structure is already implemented. The plant is being designed as ZLD and no waste water will be discharge outside the plant premises. Being Complied Attachment: NA |

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|----|---|--|----------------|--|
| 20 | MISCELLANEOUS | Air cooled condensers shall be used in the Power plant. 100% consumption of Dolo char in CFBC based boiler | PPs Submission | Air Cooled Condensers (ACCs) are installed with WHRB based CPP. Currently dolochar being used in CFBC based Boiler of associate company. Being Complied Attachment: Click to View |
| 21 | AIR QUALITY MONITORING AND PRESERVATION | Ultralow NOx burner with three stage combustion, flue gas recirculation and auto combustion control system shall be used. | PPs Submission | The said condition will be taken care of at the time of finalizing the plant/process design. Agreed to Comply Attachment: NA |
| 22 | ENERGY PRESERVATION MEASURES | Energy efficient drives, VFD for auxiliary motors, slip power recovery for motors above 1000 KW shall be provided. | PPs Submission | Energy efficient drives, VFD for auxiliary motors and slip power recovery system for motors above 1000 KW is being installed in operational units and the same will be complied for unimplemented/ rest of EC sanctioned project. Being Complied Attachment: NA |
| 23 | Human Health Environment | Ventilation system for odour control in bitumen coating area shall be included. | PPs Submission | Not applicable as Ductile Iron pipe unit is surrendered. Complied Attachment: NA |
| 24 | WASTE MANAGEMENT | A proper action plan must be implemented to dispose of the electronic waste generated in the Industry. | PPs Submission | Electronic wastes will be collected and given to authorized recyclers/ refurbished. Management of e-waste shall be done in line with the E-Waste (Management) Rules, 2016 Complied Attachment: NA |
| 25 | GREENBELT | Three tier Green Belt shall be developed in a time frame of one year with native species all along the periphery of the project site of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC. | PPs Submission | As per EC dated 11.10.2022 1,22,750 nos. saplings to be planted on land measuring 49.10 hectares (33.24% of total project area) @ 2,500 trees per hectare in two years. 16,190 nos. trees have been planted from April 2023 to September 2023 and 12,545 nos. trees have been planted from October 2022 to March 2023. Total of 83,890 trees have been planted till September 2023. Green belt development with photograph detail is enclosed Complied Attachment: Click to View |

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|----|---|---|----------------|---|
| 26 | GREENBELT | Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface. | PPs Submission | Greening and Paving being done in parallel with implementation of the project. Green belt development with photograph detail is once again enclosed. Being Complied Attachment: Click to View |
| 27 | AIR QUALITY MONITORING AND PRESERVATION | The coal dust to be measured at coal handling areas, ball mills, furnace charging areas through personal and area monitoring and to be compared and it should be within 2 mg/m ³ , respirable dust fraction containing less than 5% quartz as per Indian Factories Act, 1948. | PPs Submission | APCD of adequate capacity installed in operational units to maintain the stipulation and for balance project will be installed in parallel with implementation of the other units. Being Complied Attachment: Click to View |
| 28 | Statutory compliance | The proposed project shall be designed as "Zero Liquid Discharge" Plant. There shall be no discharge of effluent from the plant. Domestic waste water will be treated in STP and treated water shall be re-used for greenbelt development and plantation and dust suppression. | PPs Submission | The project is still in construction phase. The plant is being designed as zero liquid discharge (ZLD). Treated domestic wastewater will be used for greenbelt development and dust suppression. Agreed to Comply Attachment: NA |
| 29 | Statutory compliance | All internal road and connecting road from project site to main highway shall be developed and maintained with suitable Million Axle Standard (MSA) as per the traffic load due to existing and proposed project. All plant roads shall be paved and industrial vacuum cleaners shall be used to clean the roads regularly. | PPs Submission | Plant internal roads are being developed in parallel with implementation of the project and an industrial vacuum cleaner/ swipper machine is being used to clean the roads regularly. Agreed to Comply Attachment: NA |
| 30 | AIR QUALITY MONITORING AND PRESERVATION | All stockyards shall be having impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains to trap the run off material. | PPs Submission | Water spraying on material to be handled before beginning work and spraying on unpaved surfaces twice a day is done by movable water mist fog canon system and movable water tanker which helps in improving the working conditions and minimize dust pollution. Agreed to Comply Attachment: Click to View |
| 31 | Corporate Environmental Responsibility | The project proponent shall undertake village adoption and develop a robust action | PPs Submission | Being complied with in a time bound manner. Company has adopted 10 nos. of villages ? |

| | | | | |
|----|----------------|--|----------------|--|
| | | plan to develop the villages in model villages. | | Chandipur, Dhekia, Bhawanipur, Krishnanagar, Mahespur, Naryanpur, Radhanagar, Khosalchak, Latibpur and Nandarchak situated at a distance of around 3.0 km from plant boundary and has started developing the facilities within the villages as per need base assessment carried out during EIA study. Agreed to Comply Attachment: NA |
| 32 | PUBLIC HEARING | All the commitments made to the public during the Public Hearing/Public Consultation shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC. | PPs Submission | In FY 2023-24 under the head of CSR/CER till Sept. 2023 Rs. 80,46,805 is spent under CER to full fill all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee. As mentioned earlier in point no. xxxi under Specific Conditions, Company has adapted 10 nos. of villages Chandipur, Dhekia, Bhawanipur, Krishnanagar, Mahespur, Naryanpur, Radhanagar, Khosalchak, Latibpur and Nandarchak and will develop the facilities within the villages as per need base assessment. Agreed to Comply Attachment: Click to View |
| 33 | MISCELLANEOUS | The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at https://cpcb.nic.in/technical-guidelines-3/ . All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban | PPs Submission | Single use plastic is banned & Posters & painting for use of Eco friendly Carry Bag has been displayed at various prominent areas for awareness of our employees, vendors & local people. Being Complied Attachment: NA |

| | | | | |
|----|---|--|----------------|--|
| | | of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six-monthly compliance report being submitted by the project proponents. | | |
| 34 | WATER QUALITY MONITORING AND PRESERVATION | There are two nos. of Ponds in the vicinity of the Project, so the PP shall ensure that the quality and pond profiles are not disturbed and shall implement a Pond conservation plan. | PPs Submission | 02 nos. ponds are developed as rain water harvesting pond and water is stored and used for dust suppression & green belt development. Complied Attachment: NA |
| 35 | AIR QUALITY MONITORING AND PRESERVATION | Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere. The PP to this affect shall implement a time line action Plan. | PPs Submission | For control of fugitive emission following initiatives have been/will be adopted by the management of OMIPL: a) Dedicated 02 No water spraying tankers are in use. 01 No. more will be procured and used for the suppression of fugitive emission. b) Dedicated 02 no. street swiping machine also in use in plant. Additional 02 nos. will be used. c) Dedicated 01 no movable Water mist fog system is in use. Additional 02 nos. will be used for suppressing fugitive dust emission. d) Water spraying at construction site to reduce fugitive emission. Water sprinkler/ water guns at potential emission sources (Dust prone area), internal road will be installed for effectively controlling the fugitive emission. e) Use of adequate quantity of mechanized machine for cleaning of plant area & internal drain like bobcats, motorized grader, mini floor cleaning/ scrubber machine, mini excavators & mini clamshell. f) Speed of the vehicles regulated (20 km/hr) to control the fugitive dust emission from the roads. g) Dedicate manpower/staff for maintaining effective housekeeping and cleaning. h) Significant plantation and green belt development to mitigate the impact of fugitive dust on ambient air. i) Land use based APCD (Bag filters, ID Fan, pneumatic APC dust handling system and stack of adequate height) at potential secondary emission sources like-transfer points, intermediate storage, silo and crushing/ grinding |

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| | | | | operations is/ will be installed to keep emission within 30 mg/Nm ³ Being Complied Attachment: NA |
| 36 | AIR QUALITY MONITORING AND PRESERVATION | The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere. | PPs Submission | Good housekeeping being practiced. Action taken proposed by company for maintaining housekeeping and controlling emission are: I. Dedicated 02 No water spraying tankers are in use. Additional 01 No. more will be procured and used. II. Dedicated 02 nos. street swiping machine also in use in plant. Additional 02 nos. will be used. III. Dedicated 01 no Water mist fog system is in use in construction phase. Additional 02 nos. will be used. IV. Water spraying at construction site to reduce fugitive emission. Water sprinkler/ water guns at potential emission sources (Dust prone area) will be installed to reduce fugitive emission. V. Concreting of internal road with proper drainage system to reduce vehicular emission in parallel with implementation of project. VI. Ensuring trucks movement for transporting raw materials & solid waste in fully covered way to avoid dust pollution. VII. Dedicated truck parking facility. VIII. Green belt with density of 2500 per hectare along and around boundary of the site to be developed as per CPCB guideline in a time bound manner. Being Complied Attachment: NA |
| 37 | Statutory compliance | The Environment Clearance (EC) granted to the project/activity is strictly under the provisions of the EIA Notification, 2006 and its Amendments issued from time to time. It does not tantamount/construe to approvals/consent/permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc.as may be applicable to the project. | PPs Submission | Noted. Agreed to Comply Attachment: NA |
| 38 | AIR QUALITY MONITORING AND PRESERVATION | Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for | PPs Submission | Sampling facility has been provided at process stack of DRI and will be provided at process stack and at quenching tower, |

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| | | manual monitoring of emissions. | | other proposed stacks as per CPCB guidelines. Being Complied Attachment: NA |
| 39 | AIR QUALITY MONITORING AND PRESERVATION | Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards. | PPs Submission | Appropriate APC system like ESP, Bag filters area installed with operational unit and will be provided for all the dust generating points including fugitive dust from all vulnerable sources for under construction project. Being Complied Attachment: Click to View |
| 40 | AIR QUALITY MONITORING AND PRESERVATION | The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags. | PPs Submission | Leakage detection and mechanized bag cleaning facilities for better maintenance of bags are provided for operational units and will be provided for under construction project. Being Complied Attachment: NA |
| 41 | AIR QUALITY MONITORING AND PRESERVATION | Sufficient number of mobile or stationary vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly. | PPs Submission | ? Dedicated 02 No water spraying tankers are in use in construction phase. 01 No. more will be procured and will be used. ? Dedicated 01 no movable Water mist fog system in use. 01 no fixed water sprinkler is also installed. Additional 02 nos. will be used. ? Dedicated 02 nos. street swiping machine also in use in plant. Additional 02 nos. will be used. ? Water spraying at construction site to reduce fugitive emission. Water sprinkler/ water guns at potential emission sources (Dust prone area) will be installed to reduce fugitive emission. ? Dedicated manpower / staff for maintaining effective housekeeping and cleaning. Being Complied Attachment: Click to View |
| 42 | AIR QUALITY MONITORING AND PRESERVATION | Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/ agglomeration. | PPs Submission | ? Dolochar from operational DRI-1,50,000 TPA used in associated Company Power Plant. ? ESP dust & Kiln accretion -1,00,000 TPA used for road construction. Fines/ dust collected from APC and vacuum cleaning devices of under construction project will be handled as per EIA/EMP plan submitted while getting EC. |

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| | | | | Being Complied Attachment: NA |
| 43 | AIR QUALITY MONITORING AND PRESERVATION | The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin. | PPs Submission | Project proponent will follow necessary precautionary step to control emission during transportation/ movement of vehicles. ? Trucks movement for transporting in fully covered way to avoid dust pollution. ? Speed of the vehicles to be regulated (20 km/hr) to control the fugitive dust emission from the roads. Being Complied Attachment: NA |
| 44 | AIR QUALITY MONITORING AND PRESERVATION | Facilities for spillage collection shall be provided for coal and coke on wharf of coke oven batteries (chain conveyors, land based industrial vacuum cleaning facility). | PPs Submission | Noted and will be considered in design phase. Agreed to Comply Attachment: NA |
| 45 | AIR QUALITY MONITORING AND PRESERVATION | Land-based APC system shall be installed to control coke pushing emissions. | PPs Submission | Noted and will be considered in design phase. Agreed to Comply Attachment: NA |
| 46 | AIR QUALITY MONITORING AND PRESERVATION | Monitor CO, HC and O2 in flue gases of the coke oven battery to detect combustion efficiency and cross leakages in the combustion chamber. | PPs Submission | CO, HC and O2 in flue gases of the coke oven battery will be monitored to detect combustion efficiency and cross leakages in the combustion chamber. Agreed to Comply Attachment: NA |
| 47 | AIR QUALITY MONITORING AND PRESERVATION | Vapour absorption system shall be provided in place of vapour compression system for cooling of coke oven gas in case of recovery type coke ovens. | PPs Submission | Not applicable as non-recovery type coke oven with modified wet quenching is proposed to be installed. Agreed to Comply Attachment: NA |
| 48 | AIR QUALITY MONITORING AND PRESERVATION | Wind shelter fence and chemical spraying shall be provided on the raw material stock piles. | PPs Submission | The raw material stock piles are covered with industrial grade taruplin and water is sprayed by movable water mist fog cannon system. Being Complied Attachment: NA |
| 49 | AIR QUALITY MONITORING | Design the ventilation system for adequate air changes as per prevailing | PPs Submission | Noted and is being considered in design stage. |

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| | AND PRESERVATION | norms for all tunnels, motor houses, Oil Cellars. | | Being Complied Attachment: NA |
| 50 | WATER QUALITY MONITORING AND PRESERVATION | The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. 277(E) dated 31st March 2012(Integrated iron & Steel); G.S.R 414 (E) dated 30th May 2008(sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7thDecember 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act,1986 or NABL accredited laboratories. | PPs Submission | The plant is being designed as Zero Liquid Discharge (ZLD) and 100% water is/ will be recycled after treatment and is/ will be used in process, dust suppression & green belt development Agreed to Comply Attachment: NA |
| 51 | WATER QUALITY MONITORING AND PRESERVATION | Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards | PPs Submission | Domestic waste water treated in STP. After treatment it is reused for dust suppression and green belt development Complied Attachment: NA |
| 52 | WATER QUALITY MONITORING AND PRESERVATION | Garland drains and collection pits shall be provided for each stock pile to arrest the run off in the event of heavy rains and to check the water pollution due to surface run off. | PPs Submission | The project is still under construction phase. Garland drains are provided along the raw material stock yard. Complied Attachment: NA |
| 53 | WATER QUALITY MONITORING AND PRESERVATION | Tyre washing facilities shall be provided at the entrance of the plant gates. | PPs Submission | Tyre washing facilities is under construction and will be commissioned in parallel with implementation of project. Agreed to Comply Attachment: NA |
| 54 | WATER QUALITY MONITORING AND PRESERVATION | Water meters shall be provided at the inlet to all unit processes in the steel plants. | PPs Submission | Water meters installed at the intake well of the surface water. Being Complied Attachment: NA |

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| 55 | ENERGY PRESERVATION MEASURES | Use torpedo ladle for hot metal transfer as far as possible. If ladles not used, provide covers for open top ladles. | PPs Submission | Noted and will be complied with during project implementation stage. Agreed to Comply Attachment: NA |
| 56 | ENERGY PRESERVATION MEASURES | Restrict Gas flaring to < 1 %. | PPs Submission | Noted and will be complied with. Agreed to Comply Attachment: NA |
| 57 | ENERGY PRESERVATION MEASURES | Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly; | PPs Submission | Currently the project is under construction stage and solar internal street light is provided at potential area. Being Complied Attachment: NA |
| 58 | ENERGY PRESERVATION MEASURES | Provide LED light in their offices and residential areas. | PPs Submission | Agreed and being complied. Being Complied Attachment: NA |
| 59 | ENERGY PRESERVATION MEASURES | Ensure installation of regenerative /recuperative type burners on all reheating furnaces. | PPs Submission | Agreed and will be complied with during project implementation stage Agreed to Comply Attachment: NA |
| 60 | WASTE MANAGEMENT | An attrition grinding unit to improve the bulk density of BF granulated slag from 1.0 to 1.5 Kg/l shall be installed to use slag as river sand in construction industry. | PPs Submission | MBF plant is not implemented. Blast Furnace slag will be used for cement making in associate company of the Group. Agreed to Comply Attachment: NA |
| 61 | WASTE MANAGEMENT | Carbon recovery plant to recover the elemental carbon present in GCP slurries for use in Sinter plant shall be installed. | PPs Submission | Noted and will be considered during design stage. Agreed to Comply Attachment: NA |
| 62 | WASTE MANAGEMENT | Used refractories shall be recycled as far as possible | PPs Submission | Kiln accretion/ broken refractory mass will be used in associate company Sinter Plant, Cement Manufacturing, and land levelling. Agreed to Comply Attachment: NA |
| 63 | WASTE MANAGEMENT | 100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick | PPs Submission | Project is still under construction phase and WHRB based CPP is in operation and as on date no fly ash is generated. MOU for utilization of |

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| | | manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office. | | fly ash in cement plant of associate company (Rashmi Cement Limited (Cement Division), Jhargram & M/s Orissa Metallurgical Industry Private Limited, Cement (Formerly Bansal Cement Pvt. Ltd). Kharagpur already made and submitted to ministry. Agreed to Comply Attachment: NA |
| 64 | WASTE MANAGEMENT | Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil. Oil collection trays shall be provided under coils on saddles in cold rolled coil storage area | PPs Submission | Noted and will be considered during design phase of Rolling mill. Agreed to Comply Attachment: NA |
| 65 | WASTE MANAGEMENT | Kitchen waste shall be composted or converted to biogas for further use. | PPs Submission | Kitchen waste are composted and use as manure for green belt development. Being Complied Attachment: NA |
| 66 | GREENBELT | The project proponent shall prepare GHG emissions inventory for the plant and shall submit the program for reduction of the same including carbon sequestration by trees. | PPs Submission | GHG emissions inventory has already been prepared by the NABET accredited consultant Centre for Envotech and Management Consultancy Pvt. Ltd., Bhubaneswar during EIA study of proposed Expansion of Integrated Steel Plant (1.0 Million TPA To 2.0 Million TPA Finished Steel) With 385 MW Captive Power Plant. Copy of the GHG emissions inventory is already submitted to IRO, MoEF&CC vide letter no- OMIPL/ENV COMPL/JUNE 2023 dated 25.05.2023. Complied Attachment: NA |
| 67 | GREENBELT | Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from | PPs Submission | Reply to the subject condition is already stated in point no. ii under Specific Conditions. Complied Attachment: NA |

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| | | fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames. | | |
| 68 | PUBLIC HEARING | Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented. | PPs Submission | HIRA report and Disaster Management Plan have been prepared by NABET accredited consultant is already submitted to IRO, MoEF&CC vide letter no-OMIPL/ENV COMPL/JUNE 2023 dated 25.05.2023 and is implemented project wise. Being Complied Attachment: NA |
| 69 | Human Health Environment | The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms. | PPs Submission | Proper PPEs provided for the worker. Without proper PPEs no one is allowed to work inside the plant premises. Safety awareness campaigns organised inside the plant premises with the objective of demonstrating the use of PPEs in different work zone and explaining the benefit of using PPEs. Being Complied Attachment: Click to View |
| 70 | Human Health Environment | Occupational health surveillance of the workers shall be done on a regular basis and records maintained. | PPs Submission | The occupational health surveillance of the workers employed during operation & construction phase has been done and records are maintained as per the Factories Act. The OHS Record is attached Being Complied Attachment: Click to View |
| 71 | Corporate Environmental Responsibility | The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and Undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed. | PPs Submission | In FY 2023-24 under the head of CSR/CER till Sept. 2023 Rs. 80,46,805 is spent under CER to full fill all the commitments. Photographs are already mentioned earlier in point no. xxxi under Specific Conditions. Being Complied Attachment: NA |

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| 72 | Risk Mitigation and Disaster Management | <p>The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/ violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.</p> | PPs Submission | <p>The company shall have a well laid down environmental policy duly approved by the board of directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/ violation of the environmental/ forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/ deviation/violation of the environmental/forest/ wildlife norms/ conditions and / or shareholders/stake holders. EHS policy is already submitted to IRO, MoEF&CC vide letter no- OMIPL/ENV COMPL/JUNE 2023 dated 25.05.2023. Being Complied Attachment: NA</p> |
| 73 | Risk Mitigation and Disaster Management | <p>A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.</p> | PPs Submission | <p>A separate Environmental cell both at project and company head quarter is in place. The Framework of EHS is already submitted to IRO, MoEF&CC vide letter no- OMIPL/ENV COMPL/JUNE 2023 dated 25.05.2023. Being Complied Attachment: NA</p> |
| 74 | MISCELLANEOUS | <p>The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently</p> | PPs Submission | <p>Advertisement for expansion project environment clearance dated 11.10.2022 issued by MOEFCC in favour of Orissa Metallurgical Industry Pvt. Ltd. published in two local newspapers that are widely circulated in the region are: 1. Aajkal dated 10.10.2022 (Bengali) 2. The Echo of India dated 13.10.2022 (English) Copies of latest advertisement are already submitted to IRO, MoEF&CC vide letter no- OMIPL/ENV COMPL/JUNE 2023 dated 25.05.2023. Complied Attachment: NA</p> |
| 75 | MISCELLANEOUS | <p>The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayat and Municipal</p> | PPs Submission | <p>Copies of EC dated 11.10.2022 w.r.t EC obtained in favour of Orissa Metallurgical Industry Pvt. Ltd. submitted to DM, Paschim Medinipur & Kalaikunda Gram Panchayat vide letter dated</p> |

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| | | Bodies in addition to the relevant offices of the Government who n turn has to display the same for 30 days from the date of receipt. | | 13.10.2022 and mail dated 13.10.2022. Intimation letters are already submitted to IRO, MoEF&CC vide letter no-OMIPL/ENV COMPL/JUNE 2023 dated 25.05.2023. Complied Attachment: NA |
| 76 | MISCELLANEOUS | The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis. | PPs Submission | The environmental clearance and status of compliance of the stipulated environment clearance conditions, including results of monitored data uploaded and updated on regular basis on the website of the company http://orissametaliks.com/qehs.html Complied Attachment: NA |
| 77 | MISCELLANEOUS | The project proponent shall monitor the criteria pollutants level namely; PM10, SO2 ,NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company. | PPs Submission | The criteria pollutants level namely; PM10, PM2.5, SO2, NOx (ambient levels as well as stack emissions) is monitored by third party monitoring agency which is NABL accredited laboratory and displayed at the plant main gate. Ambient data collected from CAAQMS is uploaded on the website of the company with six monthly EC compliance report https://orissametaliks.com/qehs.php . Being Complied Attachment: NA |
| 78 | MISCELLANEOUS | The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal. | PPs Submission | The last compliance report for the period October 2022 to March 2023 has been submitted to ministry vide letter no-OMIPL/ENV COMPL/JUNE 2023 dated 25.05.2023 and also uploaded on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal. Being Complied Attachment: NA |
| 79 | MISCELLANEOUS | The project proponent shall submit the environmental statement for each financial year in Form ? V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company. | PPs Submission | Agreed and will be complied. The project is still under construction phase. Being Complied Attachment: NA |

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| 80 | MISCELLANEOUS | The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concern authorities, commencing the land development work and start of production operation by the project. | PPs Submission | The company is a private company and no finance is needed from outside. Land development work has been started after getting NOC from WBPCB. Being Complied Attachment: NA |
| 81 | MISCELLANEOUS | The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee. | PPs Submission | Noted Being Complied Attachment: NA |
| 82 | MISCELLANEOUS | The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain. | PPs Submission | Is being complied with. Expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report I submitted with Six monthly EC compliance report and is uploaded on companies? website. Being Complied Attachment: NA |
| 83 | MISCELLANEOUS | No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MOEF&CC). | PPs Submission | In compliance to this point, TOR obtained from MoEFCC for expansion of Integrated Steel Plant from 2.0 million TPA with 385 MW CPP to Integrated Steel Plant of capacity 4.2 million TPA (Finished Steel) along with 536 MW Captive Power Plant by M/s. Orissa Metallurgical Industry Pvt. Ltd., having ToR Identification No. TO23A1001WB5596583E issued vide file no. IA-J-11011/56/2017-IA-II (IND-I) dated 01.05.2023 by ministry. Being Complied Attachment: NA |

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| 84 | MISCELLANEOUS | The Regional Office of this Ministry 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. | PPs Submission | Noted & Agreed Agreed to Comply Attachment: NA |
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General Conditions

| Sr.No. | Condition Heading | Condition Details | Status of Compliance,Remarks/Reason and Supporting Documents | |
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| 1 | AIR QUALITY MONITORING AND PRESERVATION | he project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 06 Nos. Continuous Ambient Air Quality Station (CAAQS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories. | PPs Submission | Ambient air monitored at the four locations viz., Near Plant Main Gate, Gokulpur Village, Khosalchak Village & Srirampurjia Village by third party monitoring agency M/s Greenvision, Kolkata which is NABL accredited laboratory. Latest Ambient Air Quality Monitoring Analysis reports carried by NABL/MoEF accredited lab are attached Being Complied Attachment: Click to View |
| | | | PPs Submission | After taking into consideration the interest and financial share cost from associate company of the Group, for monitoring the Ambient Air quality around industrial units of the Group, 04 nos. Continuous Ambient Air Quality Monitoring Station (USEPA/ MCERT approved) is installed covering upwind, downwind and crosswind directions after getting site approval from WBPCB and data is transferred to SPCB & CPCB server. Another 02 no. CAAQMS will be installed by OMIPL after getting site approval from WBPCB. CAAQMS reports for period 1st April 2023 to 30th Sept. 2023 are attached Being Complied Attachment: Click to View |
| 2 | AIR QUALITY MONITORING AND PRESERVATION | The project proponent shall monitor fugitive emission in the plant premises at | PPs Submission | Fugitive Emissions have been monitored at the six locations viz., DRI 1 & 2; DRI 3 & 4; Truck Parking Area; CPP Area; Construction Site & Water reservoir side by third party monitoring agency M/s. Greenvision, |

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| | | least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories. | | Kolkata which is NABL accredited laboratory. Fugitive Emissions monitoring report is enclosed Being Complied Attachment: Click to View |
| 3 | WATER QUALITY MONITORING AND PRESERVATION | The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers /sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories. | PPs Submission | Monitoring of ground water quality carried by M/s Greenvision Kolkata (NABL accredited lab.) in Sept. 2023 at Mahespur Village, Amba Village, Kusumbag Village & Ghorachak Village. Ground Water has been monitored (Period March 2023 to May 2023) at Gokulpur Village, Kalaikunda Village, Malancha, Kharagpur, Aima Village, Tarapur Village, Medinipur and Nepura village by third party monitoring agency M/s CEMC Pvt. Ltd., Bhubaneswar which is a NABL accredited laboratory. It is observed that the ground water samples showed no alarming levels of pollutant concentration and all the samples were conforming to the prescribed drinking water standard (IS 10500:2012). The groundwater samples from the plant site and from study area are of good quality, not polluted and good for irrigation or for domestic use. The ground water analysis report enclosed Being Complied Attachment: Click to View |
| 4 | Noise Monitoring & Prevention | Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as part of six-monthly compliance report. | PPs Submission | Noise level has been monitored at ambient & work zone i.e., DRI & CPP Area, Truck Parking Area, Construction Site, Radhanagar Village, Risha Village & Jhatibandh Village by third party monitoring agency M/s. Greenvision, Kolkata which is a NABL accredited laboratory. Ambient Noise & Source Noise Monitoring Reports are attached. Being Complied Attachment: Click to View |

Document Upload

Last Site Visit Report (if available) [Click to View](#)
Additional Attachment (if any) [Click to View](#)

Last Site Visit Report Date (if available) 21-02-2022

Additional Remarks (if any)

I 'Expansion of Integrated Steel Plant (1.0 Million TPA to 2.0 Million TPA Finished Steel) With 385 MW Captive Power Plant' hereby give undertaking that the data and information given in the filed compliance and enclosures are true to be best of my knowledge and belief and I am aware that if any part of the data and information found to be false or misleading at any stage, the clearance given to the project will be revoked at our risk and cost. In addition to above, I hereby give undertaking that no activity such as change in project layout, construction, expansion, etc. has been taken up without due approval.

Cover Letter From IRO

Cover Letter From IRO NA

[Back](#)

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| Name of the Project: | Expansion of Integrated Steel Plant (1.0 Million TPA to 2.0 Million TPA Finished Steel) With 385 MW Captive Power Plant |
| Clearance Letters No. Date | EC No. EC22A008WB158432; File No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022 |
| Period of Compliance Report | April 2023 to September 2023 |

| Sl. No. | Specific Condition | Compliance Status |
|----------------|--|---|
| i. | The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented. | <p>Agreed and noted for compliance.</p> <p>The project is still in construction phase. Only 2 x 350 + 2 x 500 TPD DRI along with WHRB based CPP 60 MW is in operation after obtain valid CTO.</p> <p>All the environmental protection measures and safeguards proposed during construction phase & operational phase (i.e. use of movable water tanker, sweeping machine, water mist fog canon system installation of APCD like ESP bag filter WHRB etc.) being complied.</p> |
| ii. | The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard. | <p>Consent obtained for 2 x 350 + 2 x 500 TPD DRI along with WHRB based CPP 60 MW dated on 17-10-2023. Waste gases generated from DRI are oxide of carbon which is utilizing in WHRB Boiler for power generation.</p> <p>The flue gas generated from balance EC accorded project i.e. Blast Furnace, Coke Oven Plant, Sinter, DRI; Lime & Dolo Plant will be utilized in various units like in BF, Sinter, Coke Oven Plant, Ferro Plant, power generation etc up to extent possible as proposed in EIA/EMP report. Plantation is a suitable method to sequester carbon and 33.24 % of the plant area shall be developed under greenbelt.</p> <p>Details of Carbon Sequestration is submitted to IRO, MoEF&CC vide letter no-OMIPL/ENV COMPL/JUNE 2023 dated 25.05.2023.</p> |
| iii. | Rejects from coal washery shall only be used either in the captive power plant (or) in the Thermal Power Plants meeting emission | <p>Agreed and noted.</p> <p>Reject from coal washery will be used in (Coal & Dolochar Mix) based CPP.</p> |

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

 Director/Authorized Signatory

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| | standards. | |
| iv. | Solid waste utilization | |
| | a. | PP shall install a slag crusher to convert steel slag into aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in cement making. |
| | b. | PP shall recycle/reuse solid waste generated in the plant as far as possible. |
| | c. | Used refractories shall be recycled as far as possible. |
| v. | Sinter Plant shall be equipped with Sinter cooler waste recovery system and suitable technology for control of dioxins and furans emissions from the plant. | Agreed and will be complied once the project comes in operation |
| vi. | Tar shall be recovered from producer gas and shall be sold to registered processors and Phenolic water from PGP shall be treated for phenol, tar and cyanide. | Agreed and will be complied once the project comes in operation |
| vii. | Coke oven plant shall be equipped with modified wet quenching system. | Agreed Plant/Process design will be made keeping in record the said condition. The stipulated conditions will be complied by the project proponent |
| viii. | Blast Furnaces shall be equipped with Top Recovery Turbine (capacity more than 450 m ³), dry gas cleaning plant, stove waste heat recovery, cast house and stock house ventilation system and slag granulation facility. | Agreed. Blast furnace will be equipped with Top Recovery Turbine and all other mentioned parameter will be complied. |
| ix. | Basic Oxygen Furnace (BOF) gas shall be cleaned dry. | Agreed. The said condition will be complied once the project comes in operation. |
| x. | EAF shall be closed type and fourth hole extraction system shall be included for fume control from these furnaces | Agreed. The said condition will be taken care of at the time of finalizing the plant /process design. |

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

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| xi. | 85-90 % of billets shall be rolled directly in hot stage. RHF shall operate using only Light Diesel Oil or Mixed BF/CO gas/Producer gas. | Agreed and will be complied once the project comes in operation. |
| xii. | Cold Rolling Mill (CRM), color coating and galvanizing plants shall have CETP to treat and recycle the treated water from CRM complex. Sludge generated at CRM ETP shall be sent to TSDF. Acid recovery plant shall be provided in CRM. | Agreed and will be complied once the project comes in operation. Effluent from Process will be treated in ETP plant and treated water will be reused in plant process. Acid recovery plant will be installed to recover acid. |
| xiii. | Dust emission from Steel Plant stacks shall be up to 30 mg/Nm ³ . | Agreed and will be complied. As stated in point iv (b) , currently 2 x 500 + 2 x 350 TPD DRI is under operational phase & APCD are designed to meet the latest emission norms of less than 30 mg/Nm ³ . Latest stack emission report carried by NABL accredited laboratory on 04.11.2023 is enclosed as Annexure-I. |
| xiv. | Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Regional Office of the MoEF&CC. | Agreed and being complied Currently 2 x 500 + 2 x 350 TPD DRI is under operational phase after obtaining Consent to Operate on 17.10.2023 from WBPCB and balance EC accorded in under construction stage in phase manner. Latest stack emission report carried by NABL accredited laboratory for operation plant is enclosed as Annexure-I. |
| xv. | Recuperator shall be installed to recover heat from BF stove waste gas and used for stove gas reheating reducing requirement of fuel gas. | Agreed. Recuperator will be installed to recover heat from BF stove waste gas. The said condition will be taken care of at the time of finalizing the plant/process design. |
| xvi. | The company shall also undertake rain water harvesting measures as per the plan submitted and reduce water dependence from the outside source. | Agreed a Rainwater harvesting structure is proposed for the plant and has already been implemented for EC accorded project. |

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RAIN WATER HARVESTING STRUCTURE



Total area demarcated for rain water harvesting is 20.90 acres.

xvii. 85% of raw materials and finished goods shall be transported by dedicated railway siding facility. In the event of delay in establishment of dedicated railway line, PP shall use another railway siding facility of Rashmi Group.

Agreed and the said condition will be complied.

In-principal approval for setting up the proposed private railway siding has been obtained from South Eastern Railway vide letter no. GW/1/OMIPL-NWOSC(IPA)/159 dated 08.08.2022. Also ESP, SIP & OHE approval and construction clearance obtained from Indian Railway. Construction work already started.




RAILWAY SIDING UNDER CONSTRUCTION


Currently raw material and finished goods are being transported by 03 nos. private siding of Rashmi group (RML, OMPL & OASPL).

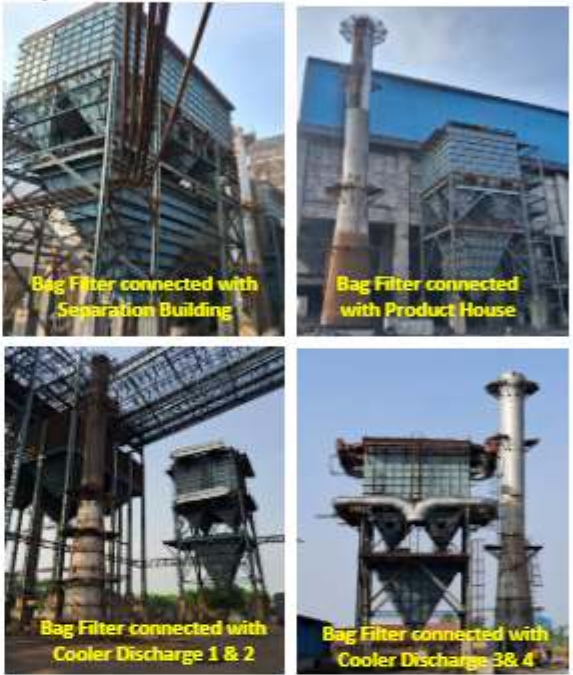
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| <p>xviii.</p> | <p>The total water requirement of 13,200 KLD will be obtained from Kansabati River & rain water harvesting structure. No ground water abstraction is permitted.</p> | <p style="text-align: center;">Agreed</p> <p>The raw water would be sourced from Kansabati river (13,200 KLD @ 342 days) and Rain Water Harvesting pond (13,200 @ 23 days).</p> <p>Water permission obtained from Irrigation & water Department, West Bengal from Kansai River Bed (22,248 KLD for 08 months or 243 days) vide letter no- 167-I/I-4M-05/14(Pt.II) dated 16.10.2020 in name of M/s Orissa Metaliks Pvt. Ltd. (Holding company of M/s Orissa Metallurgical Industry Pvt. Ltd.).</p> <p>After taking into consideration the interest and financial share cost, laying of pipeline, infrastructure development for water project had been done by holding company for meeting the water demand of M/s Orissa Metallurgical Industry Pvt. Ltd.</p> <p>Copy of water permission and schematic water distribution pattern is already submitted to IRO, MoEF&CC vide letter no-OMIPL/ENV COMPL/JUNE 2023 dated 25.05.2023.</p> |
| <p>xix.</p> | <p>02 Nos. rain water harvesting pond exist is within project site. Also, Kansabati River, other rainwater harvesting structures and ponds exists within the study area of 10 km from the project site. The water bodies shall not be disturbed. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.</p> | <p style="text-align: center;">Agreed and being complied.</p> <p>As stated in point xvi rainwater harvesting structure is already implemented.</p> <p>The plant is being designed as ZLD and no waste water will be discharge outside the plant premises.</p> |
| <p>xx.</p> | <p>Air cooled condensers shall be used in the Power plant. 100% consumption of Dolo char in CFBC based boiler.</p> | <p style="text-align: center;">Agreed and Being complied with.</p> <p>Air Cooled Condensers (ACCs) are installed with WHRB based CPP. Currently dolochar being used in CFBC based Boiler of associate company.</p> |

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

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| xxi. | Ultralow NOx burner with three stage combustion, flue gas recirculation and auto combustion control system shall be used. | Agreed. The said condition will be taken care of at the time of finalizing the plant/process design. |
| xxii. | Energy efficient drives, VFD for auxiliary motors, slip power recovery for motors above 1000 KW shall be provided. | Being complied with. Energy efficient drives, VFD for auxiliary motors and slip power recovery system for motors above 1000 KW is being installed in operational units and the same will be complied for unimplemented/ rest of EC sanctioned project. |
| xxiii. | Ventilation system for odour control in bitumen coating area shall be included. | Not applicable as Ductile Iron pipe unit is surrendered. |
| xxiv. | A proper action plan must be implemented to dispose of the electronic waste generated in the Industry. | Agreed. Electronic wastes will be collected and given to authorized recyclers/ refurbished. Management of e-waste shall be done in line with the E-Waste (Management) Rules, 2016. |
| xxv. | Three tier Green Belt shall be developed in a time frame of one year with native species all along the periphery of the project site of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC. | Agreed and Noted. As per EC dated 11.10.2022 1,22,750 nos. saplings to be planted on land measuring 49.10 hectares (33.24% of total project area) @ 2,500 trees per hectare in two years. 16,190 nos. trees have been planted from April 2023 to September 2023 and 12,545 nos. trees have been planted from October 2022 to March 2023. Total of 83,890 trees have been planted till September 2023. Green belt development with photograph detail is enclosed as Annexure-II. |
| xxvi. | Greening and Paving shall be implemented in the plant area to | Greening and Paving being done in parallel with implementation of the |

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

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| | arrest soil erosion and dust pollution from exposed soil surface. | project. Green belt development with photograph detail is already enclosed as Annexure-II . |
| xxvii. | The coal dust to be measured at coal handling areas, ball mills, furnace charging areas through personal and area monitoring and to be compared and it should be within 2 mg/m ³ , respirable dust fraction containing less than 5% quartz as per Indian Factories Act, 1948. | <p>Agreed.</p> <p>APCD of adequate capacity installed in operational units to maintain the stipulation and for balance project will be installed in parallel with implementation of the other units.</p>  <p style="text-align: center;">PHOTOGRAPH OF APCD INSTALLED</p> |
| xxviii. | The proposed project shall be designed as "Zero Liquid Discharge" Plant. There shall be no discharge of effluent from the plant. Domestic waste water will be treated in STP and treated water shall be re-used for greenbelt development and plantation and dust suppression. | <p>Agreed.</p> <p>The project is still in construction phase. The plant is being designed as zero liquid discharge (ZLD). Treated domestic wastewater will be used for greenbelt development and dust suppression.</p> |
| xxix. | All internal road and connecting road from project site to main highway shall be developed and maintained with suitable Million Axle Standard (MSA) as per the traffic load due to existing and proposed project. All plant roads shall be paved and industrial vacuum cleaners shall be used to clean the roads regularly. | <p>Agreed.</p> <p>Plant internal roads are being developed in parallel with implementation of the project and an industrial vacuum cleaner/ swipper machine is being used to clean the roads regularly.</p> |

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

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SWEEPER MACHINE



MOVABLE WATER TANKER

XXX.

All stockyards shall be having impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains to trap the run off material.


Agreed

Water spraying on material to be handled before beginning work and spraying on unpaved surfaces twice a day is done by movable water mist fog canon system and movable water tanker which helps in improving the working conditions and minimize dust pollution.



WATER TANKER

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED
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 Director / Authorized Signatory

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| | |  <p style="text-align: center;">MOVABLE WATER MIST FOG CANON</p> |
| <p>xxxii.</p> | <p>The project proponent shall undertake village adoption and develop a robust action plan to develop the villages in model villages.</p> | <p>Being complied with in a time bound manner.</p> <p>Company has adopted 10 nos. of villages –Chandipur, Dhekia, Bhawanipur, Krishnanagar, Mahespur, Naryanpur, Radhanagar, Khosalchak, Latibpur and Nandarchak situated at a distance of around 3.0 km from plant boundary and has started developing the facilities within the villages as per need base assessment carried out during EIA study.</p> |
| <p>xxxii.</p> | <p>All the commitments made to the public during the Public Hearing/Public Consultation shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry’s OM dated 30.09.2020 shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.</p> | <p>Agreed and being complied at time bound manner.</p> <p>In FY 2023-24 under the head of CSR/CER till Sept. 2023 Rs. 80,46,805 is spent under CER to full fill all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.</p> <p>As mentioned earlier in point no. xxxii under Specific Conditions, Company has adapted 10 nos. of villages –Chandipur, Dhekia, Bhawanipur, Krishnanagar, Mahespur, Naryanpur, Radhanagar, Khosalchak, Latibpur and Nandarchak and will develop the facilities within the villages as per need base assessment.</p> |



**Construction of Community Prayer Centre
(Mandir)**



Recreation Hall at Maheshpur



**Donation of Advanced Life Support
Ambulance to IIT Kharagpur**



**Free Rural Community Healthcare
Dispensary**



Free Sapling Distribution, Naryanpur




Sustainable Agriculture for Aatma Nirbhar Bharat- Agri Vision 2047



Health-Yoga Sibir



Sports- "2nd IIT Kharagpur Athletics Championships

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| <p>xxxiii.</p> | <p>The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at https://cpcb.nic.in/technical-guidelines-3/. All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six-monthly compliance report being submitted by the project proponents.</p> | <p>Agreed</p> <p>Single use plastic is banned & Posters & painting for use of Eco friendly Carry Bag has been displayed at various prominent areas for awareness of our employees, vendors & local people.</p>  |
| <p>xxxiv.</p> | <p>There are two nos. of Ponds in the vicinity of the Project, so the PP shall ensure that the quality and pond profiles are not disturbed and shall implement a Pond conservation plan.</p> | <p>Noted.</p> <p>02 nos. ponds are developed as rain water harvesting pond and water is stored and used for dust suppression & green belt development.</p> |
| <p>xxxv.</p> | <p>Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere. The PP to this affect shall implement a time line action Plan.</p> | <p>Agreed and Being complied with</p> <p>For control of fugitive emission following initiatives have been/will be adopted by the management of OMIPL:</p> <ul style="list-style-type: none"> a) Dedicated 02 No water spraying tankers are in use. 01 No. more will be procured and used for the suppression of fugitive emission. b) Dedicated 02 no. street swiping machine also in use in plant. Additional 02 nos. will be used. |

| | | |
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| | | <p>c) Dedicated 01 no movable Water mist fog system is in use. Additional 02 nos. will be used for suppressing fugitive dust emission.</p> <p>d) Water spraying at construction site to reduce fugitive emission. Water sprinkler/ water guns at potential emission sources (Dust prone area), internal road will be installed for effectively controlling the fugitive emission.</p> <p>e) Use of adequate quantity of mechanized machine for cleaning of plant area & internal drain like bobcats, motorized grader, mini floor cleaning/ scrubber machine, mini excavators & mini clamshell.</p> <p>f) Speed of the vehicles regulated (20 km/hr) to control the fugitive dust emission from the roads.</p> <p>g) Dedicate manpower/staff for maintaining effective housekeeping and cleaning.</p> <p>h) Significant plantation and green belt development to mitigate the impact of fugitive dust on ambient air.</p> <p>i) Land use based APCD (Bag filters, ID Fan, pneumatic APC dust handling system and stack of adequate height) at potential secondary emission sources like- transfer points, intermediate storage, silo and crushing/ grinding operations is/ will be installed to keep emission within 30 mg/Nm³.</p> |
| xxxvi. | The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, | <p>Agreed.</p> <p>Good housekeeping being practiced.</p> <p>Action taken proposed by company for maintaining housekeeping and controlling emission are:</p> |

FOR ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

[Signature]

Director / Authorized Signatory

absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.

- I. Dedicated 02 No water spraying tankers are in use. Additional 01 No. more will be procured and used.
- II. Dedicated 02 nos. street swiping machine also in use in plant. Additional 02 nos. will be used.
- III. Dedicated 01 no Water mist fog system is in use in construction phase. Additional 02 nos. will be used.
- IV. Water spraying at construction site to reduce fugitive emission. Water sprinkler/ water guns at potential emission sources (Dust prone area) will be installed to reduce fugitive emission.
- V. Concreting of internal road with proper drainage system to reduce vehicular emission in parallel with implementation of project.
- VI. Ensuring trucks movement for transporting raw materials & solid waste in fully covered way to avoid dust pollution.
- VII. Dedicated truck parking facility.
- VIII. Green belt with density of 2500 per hectare along and around boundary of the site to be developed as per CPCB guideline in a time bound manner.

Photograph of Housekeeping maintained inside the plant:



| Sl. No. | General Conditions | Compliance Status | | | | | | | | | | | | | | | |
|---|---|---|----------------------|--------------------|------------------|----------------------|--------------------|---------------------------------------|-------|-------|-------|-------|--|-------|-------|-------|-------|
| I. Statutory compliance: | | | | | | | | | | | | | | | | | |
| | i. The Environment Clearance (EC) granted to the project/activity is strictly under the provisions of the EIA Notification, 2006 and its Amendments issued from time to time. It does not tantamount/construe to approvals/consent/permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc.as may be applicable to the project. | Noted. | | | | | | | | | | | | | | | |
| II. Air quality monitoring and preservation: | | | | | | | | | | | | | | | | | |
| | i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 06 Nos. Continuous Ambient Air Quality Station (CAAQS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act,1986 or NABL accredited laboratories. | <p>After taking into consideration the interest and financial share cost from associate company of the Group, for monitoring the Ambient Air quality around industrial units of the Group, 04 nos. Continuous Ambient Air Quality Monitoring Station (USEPA/ MCERT approved) is installed covering upwind, downwind and crosswind directions after getting site approval from WBPCB and data is transferred to SPCB & CPCB server. Another 02 no. CAAQMS will be installed by OMIPL after getting site approval from WBPCB. CAAQMS reports for period 1st April 2023 to 30th Sept. 2023 are attached as Annexure No. - III.</p> <p>Ambient air monitored at the four locations viz., Near Plant Main Gate, Gokulpur Village, Khosalchak Village & Srirampurjia Village by third party monitoring agency M/s Greenvision, Kolkata which is NABL accredited laboratory. As per monitoring reports, (Sept. 2023) emission levels are as follows:</p> <table border="1" data-bbox="791 1895 1422 2078"> <thead> <tr> <th>Parameter</th> <th>Plant Main Gate</th> <th>Gokulpur Village</th> <th>Srirampurjia Village</th> <th>Khosalchak Village</th> </tr> </thead> <tbody> <tr> <td>PM₁₀ (µg/m³)</td> <td>77.92</td> <td>66.37</td> <td>58.29</td> <td>61.15</td> </tr> <tr> <td>PM_{2.5} (µg/m³)</td> <td>38.83</td> <td>34.58</td> <td>30.41</td> <td>31.66</td> </tr> </tbody> </table> | Parameter | Plant Main Gate | Gokulpur Village | Srirampurjia Village | Khosalchak Village | PM ₁₀ (µg/m ³) | 77.92 | 66.37 | 58.29 | 61.15 | PM _{2.5} (µg/m ³) | 38.83 | 34.58 | 30.41 | 31.66 |
| Parameter | Plant Main Gate | Gokulpur Village | Srirampurjia Village | Khosalchak Village | | | | | | | | | | | | | |
| PM ₁₀ (µg/m ³) | 77.92 | 66.37 | 58.29 | 61.15 | | | | | | | | | | | | | |
| PM _{2.5} (µg/m ³) | 38.83 | 34.58 | 30.41 | 31.66 | | | | | | | | | | | | | |



For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED


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| | | <table border="1"> <tr> <td>SO₂ (µg/m³)</td> <td>9.52</td> <td>8.79</td> <td>7.32</td> <td>7.32</td> </tr> <tr> <td>NO₂ (µg/m³)</td> <td>32.4</td> <td>29.58</td> <td>30.94</td> <td>31.55</td> </tr> <tr> <td>CO (mg/m³)</td> <td>0.326</td> <td>0.169</td> <td>0.122</td> <td>0.138</td> </tr> </table> <p>Latest Ambient Air Quality Monitoring Analysis reports carried by NABL/MoEF accredited lab are attached in as Annexure No. – IV.</p> | SO ₂ (µg/m ³) | 9.52 | 8.79 | 7.32 | 7.32 | NO ₂ (µg/m ³) | 32.4 | 29.58 | 30.94 | 31.55 | CO (mg/m ³) | 0.326 | 0.169 | 0.122 | 0.138 | |
|---|---|---|---|-----------------|-----------------|----------------------|---------------------------|---|--------|--------|-----------|----------|----------------------------|-------------------|---------------------------|-------|--------|--------|
| SO ₂ (µg/m ³) | 9.52 | 8.79 | 7.32 | 7.32 | | | | | | | | | | | | | | |
| NO ₂ (µg/m ³) | 32.4 | 29.58 | 30.94 | 31.55 | | | | | | | | | | | | | | |
| CO (mg/m ³) | 0.326 | 0.169 | 0.122 | 0.138 | | | | | | | | | | | | | | |
| ii. | The project proponent shall monitor fugitive emission in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories. | <p>Being Complied with.</p> <p>Fugitive Emissions have been monitored at the six locations viz., DRI 1 & 2; DRI 3 & 4; Truck Parking Area; CPP Area; Construction Site & Water reservoir side by third party monitoring agency M/s. Greenvision, Kolkata which is NABL accredited laboratory. As per monitoring reports (Sept.-2023), emission levels are as follows:</p> <table border="1"> <thead> <tr> <th>Parameter</th> <th>DRI Plant 1 & 2</th> <th>DRI Plant 3 & 4</th> <th>Water reservoir side</th> </tr> </thead> <tbody> <tr> <td>TSPM (µg/m³)</td> <td>599.89</td> <td>524.51</td> <td>508.34</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Parameter</th> <th>CPP Area</th> <th>Truck Parking Area</th> <th>Construction Site</th> </tr> </thead> <tbody> <tr> <td>TSPM (µg/m³)</td> <td>490.2</td> <td>584.86</td> <td>645.75</td> </tr> </tbody> </table> <p>Fugitive Emissions monitoring report is enclosed as Annexure-V.</p> | Parameter | DRI Plant 1 & 2 | DRI Plant 3 & 4 | Water reservoir side | TSPM (µg/m ³) | 599.89 | 524.51 | 508.34 | Parameter | CPP Area | Truck Parking Area | Construction Site | TSPM (µg/m ³) | 490.2 | 584.86 | 645.75 |
| Parameter | DRI Plant 1 & 2 | DRI Plant 3 & 4 | Water reservoir side | | | | | | | | | | | | | | | |
| TSPM (µg/m ³) | 599.89 | 524.51 | 508.34 | | | | | | | | | | | | | | | |
| Parameter | CPP Area | Truck Parking Area | Construction Site | | | | | | | | | | | | | | | |
| TSPM (µg/m ³) | 490.2 | 584.86 | 645.75 | | | | | | | | | | | | | | | |
| iii. | Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions. | Sampling facility has been provided at process stack of DRI and will be provided at process stack and at quenching tower, other proposed stacks as per CPCB guidelines. | | | | | | | | | | | | | | | | |
| iv. | Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards. | <p>Agreed.</p> <p>Appropriate APC system like ESP, Bag filters area installed with operational unit and will be provided for all the dust generating points including fugitive dust from all vulnerable sources for under construction project.</p> | | | | | | | | | | | | | | | | |

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

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| | |  <p>Bag Filter connected with Separation Building</p> <p>Bag Filter connected with Stack House 4</p> <p>Individual ESP with 2 x350+ 2x500 TPD DRB Kiln</p> |
| v. | <p>The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.</p> | <p>Agreed.</p> <p>Leakage detection and mechanized bag cleaning facilities for better maintenance of bags are provided for operational units and will be provided for under construction project.</p> |
| vi. | <p>Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.</p> | <p>Agreed</p> <ul style="list-style-type: none"> <input type="checkbox"/> Dedicated 02 No water spraying tankers are in use in construction phase. 01 No. more will be procured and will be used. <input type="checkbox"/> Dedicated 01 no movable Water mist fog system in use. 01 no fixed water sprinkler is also installed. Additional 02 nos. will be used.  <p>WATER TANKER No-1</p> |

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

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WATER TANKER No-2



MOVABLE WATER MIST FOG CANON



FIXED WATER MIST FOG CANON

- Dedicated 02 nos. street swiping machine also in use in plant. Additional 02 nos. will be used.



STREET SWEEPING MACHINE No-1

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED
Director / Authorized Signatory

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| | |  <p style="text-align: center;">STREET SWEEPING MACHINE No-2</p> <ul style="list-style-type: none"> <input type="checkbox"/> Water spraying at construction site to reduce fugitive emission. Water sprinkler/ water guns at potential emission sources (Dust prone area) will be installed to reduce fugitive emission. <input type="checkbox"/> Dedicated manpower / staff for maintaining effective housekeeping and cleaning. |
| vii. | Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/ agglomeration. | <ul style="list-style-type: none"> • Dolochar from operational DRI-1,50,000 TPA used in associated Company Power Plant. • ESP dust & Kiln accretion -1,00,000 TPA used for road construction. <p>Fines/ dust collected from APC and vacuum cleaning devices of under construction project will be handled as per EIA/EMP plan submitted while getting EC.</p> |
| viii | The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin. | <p style="text-align: center;">Agreed</p> <p>Project proponent will follow necessary precautionary step to control emission during transportation/ movement of vehicles.</p> <ul style="list-style-type: none"> • Trucks movement for transporting in fully covered way to avoid dust pollution. • Speed of the vehicles to be regulated (20 km/hr) to control the fugitive dust emission from the roads. |
| ix. | Facilities for spillage collection shall be provided for coal and coke on wharf of coke oven batteries (chain conveyors, land | <p style="text-align: center;">Noted and will be considered in design phase.</p> |


| | | |
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| | based industrial vacuum cleaning facility). | |
| x. | Land-based APC system shall be installed to control coke pushing emissions. | Noted and will be considered in design phase |
| xi. | Monitor CO, HC and O ₂ in flue gases of the coke oven battery to detect combustion efficiency and cross leakages in the combustion chamber. | Agreed CO, HC and O ₂ in flue gases of the coke oven battery will be monitored to detect combustion efficiency and cross leakages in the combustion chamber. |
| xii. | Vapour absorption system shall be provided in place of vapour compression system for cooling of coke oven gas in case of recovery type coke ovens. | Not applicable as non-recovery type coke oven with modified wet quenching is proposed to be installed. |
| xiii | Wind shelter fence and chemical spraying shall be provided on the raw material stock piles. | The raw material stock piles are covered with industrial grade taruplin and water is sprayed by movable water mist fog cannon system. |
| xiv | Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars. | Noted and is being considered in design stage. |

III. Water quality monitoring and preservation :

| | | |
|----|--|--|
| i. | The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. 277(E) dated 31 st March 2012(Integrated iron & Steel); G.S.R 414 (E) dated 30 th May 2008(sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7 th December 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act,1986 or NABL accredited laboratories. | Agreed The plant is being designed as Zero Liquid Discharge (ZLD) and 100% water is/ will be recycled after treatment and is/ will be used in process, dust suppression & green belt development. |
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For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

 Director/Authorized Signatory

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| ii. | <p>The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers /sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act,1986 and NABL accredited laboratories.</p> | <p>Being Complied with</p> <p>Monitoring of ground water quality carried by M/s Greenvision Kolkata (NABL accredited lab.) in Sept. 2023 at Mahespur Village, Amba Village, Kusumbag Village & Ghorachak Village.</p> <p>Ground Water has been monitored (Period March 2023 to May 2023) at Gokulpur Village, Kalaikunda Village, Malancha, Kharagpur, Aima Village, Tarapur Village, Medinipur and Nepura village by third party monitoring agency M/s CEMC Pvt. Ltd., Bhubaneswar which is a NABL accredited laboratory.</p> <p>It is observed that the ground water samples showed no alarming levels of pollutant concentration and all the samples were conforming to the prescribed drinking water standard (IS 10500:2012). The groundwater samples from the plant site and from study area are of good quality, not polluted and good for irrigation or for domestic use.</p> <p>The ground water analysis report as annexed as Annexure-VI.</p> |
| iii. | <p>Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards</p> | <p>Noted.</p> <p>Domestic waste water treated in STP. After treatment it is reused for dust suppression and green belt development.</p> |
| iv. | <p>Garland drains and collection pits shall be provided for each stock pile to arrest the run off in the event of heavy rains and to check the water pollution due to surface run off.</p> | <p>Agreed and will be complied with.</p> <p>The project is still under construction phase. Garland drains are provided along the raw material stock yard.</p>  |
| v. | <p>Tyre washing facilities shall be provided at the entrance of the plant gates.</p> | <p>Noted and will be complied with</p> <p>Tyre washing facilities is under construction and will be commissioned in</p> |

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

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| | | parallel with implementation of project. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|---------------------------|-----------------------|------|-----------------------|--|-----------------------|--|-----|-------|-----|-------|-----|-------|--|------|------|------|------|------|------|-----------|-------------------|-----------------------|----------------------|--------------|-----------|------------|-----------|
| | vi. Water meters shall be provided at the inlet to all unit processes in the steel plants. | Water meters installed at the intake well of the surface water. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IV. Noise monitoring and prevention | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | i. Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as part of six-monthly compliance report. | <p>Being Complied with</p> <p>Noise level has been monitored at ambient & work zone i.e., DRI & CPP Area, Truck Parking Area, Construction Site, Radhanagar Village, Risha Village & Jhatibandh Village by third party monitoring agency M/s. Greenvision, Kolkata which is a NABL accredited laboratory. As per monitoring reports of Sept. 2023, levels are as follows:</p> <table border="1"> <thead> <tr> <th rowspan="2">Parameter Leq dB(A)</th> <th colspan="2">Radhanagar Village</th> <th colspan="2">Risha Village</th> <th colspan="2">Jhatibandh Village</th> </tr> <tr> <th>Day</th> <th>Night</th> <th>Day</th> <th>Night</th> <th>Day</th> <th>Night</th> </tr> </thead> <tbody> <tr> <td></td> <td>58.9</td> <td>47.6</td> <td>56.8</td> <td>48.6</td> <td>58.9</td> <td>46.1</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Parameter</th> <th>DRI & CPP Area</th> <th>Truck Parking Area</th> <th>Construction Site</th> </tr> </thead> <tbody> <tr> <td>Leq dB(A)</td> <td>55.8-60.1</td> <td>54.0- 60.7</td> <td>55.1-60.7</td> </tr> </tbody> </table> <p>Ambient Noise & Source Noise Monitoring Reports are attached as Annexure-VII.</p> | Parameter Leq dB(A) | Radhanagar Village | | Risha Village | | Jhatibandh Village | | Day | Night | Day | Night | Day | Night | | 58.9 | 47.6 | 56.8 | 48.6 | 58.9 | 46.1 | Parameter | DRI & CPP Area | Truck Parking Area | Construction Site | Leq dB(A) | 55.8-60.1 | 54.0- 60.7 | 55.1-60.7 |
| Parameter Leq dB(A) | Radhanagar Village | | | Risha Village | | Jhatibandh Village | | | | | | | | | | | | | | | | | | | | | | | | |
| | Day | Night | Day | Night | Day | Night | | | | | | | | | | | | | | | | | | | | | | | | |
| | 58.9 | 47.6 | 56.8 | 48.6 | 58.9 | 46.1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Parameter | DRI & CPP Area | Truck Parking Area | Construction Site | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leq dB(A) | 55.8-60.1 | 54.0- 60.7 | 55.1-60.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| V. Energy Conservation measures | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | i. Use torpedo ladle for hot metal transfer as far as possible. If ladles not used, provide covers for open top ladles. | Noted and will be complied with during project implementation stage. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ii. Restrict Gas flaring to < 1 %. | Noted and will be complied with. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | iii. Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly; | <p>Agreed and will be complied with.</p> <p>Currently the project is under construction stage and solar internal street light is provided at potential area.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | iv. Provide LED light in their offices and residential areas. | Agreed and being complied. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | v. Ensure installation of regenerative /recuperative type burners on all reheating furnaces. | Agreed and will be complied with during project implementation stage. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

For GRISSA METALLURGICAL INDUSTRY PRIVATE LIMITED




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| VI. Waste Management | | |
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| i. | An attrition grinding unit to improve the bulk density of BF granulated slag from 1.0 to 1.5 Kg/l shall be installed to use slag as river sand in construction industry. | Noted MBF plant is not implemented. Blast Furnace slag will be used for cement making in associate company of the Group. |
| ii. | Carbon recovery plant to recover the elemental carbon present in GCP slurries for use in Sinter plant shall be installed. | Noted and will be considered during design stage. |
| iii. | Used refractories shall be recycled as far as possible. | Kiln accretion/ broken refractory mass will be used in associate company Sinter Plant, Cement Manufacturing, and land levelling. |
| iv. | 100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office. | Agreed Project is still under construction phase and as on date no fly ash is generated. MOU for utilization of fly ash in cement plant of associate company (Rashmi Cement Limited (Cement Division), Jhargram & M/s Orissa Metallurgical Industry Private Limited, Cement (Formerly Bansal Cement Pvt. Ltd). Kharagpur already made and submitted to ministry. |
| v. | Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil. Oil collection trays shall be provided under coils on saddles in cold rolled coil storage area. | Noted and will be considered during design phase of Rolling mill. |
| vi. | Kitchen waste shall be composted or converted to biogas for further use. | Agreed and being complied with. Kitchen waste are composted and use as manure for green belt development. |
| VII. Green Belt : | | |
| i. | The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees. | GHG emissions inventory has already been prepared by the NABET accredited consultant Centre for Envotech and Management Consultancy Pvt. Ltd., Bhubaneswar during EIA study of proposed Expansion of Integrated Steel Plant (1.0 Million TPA To 2.0 Million TPA Finished Steel) With 385 MW Captive Power Plant. Copy of the GHG emissions inventory is already submitted to IRO, MoEF&CC vide letter no-OMIPL/ENV COMPL/JUNE 2023 |

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| | | | dated 25.05.2023. |
| | ii. | Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames. | Noted. Reply to the subject condition is already stated in point no. ii under Specific Conditions. |
| VIII. Public hearing and Human Health Issues: | | | |
| | i. | Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented. | Complied. HIRA report and Disaster Management Plan have been prepared by NABET accredited consultant is already submitted to IRO, MoEF&CC vide letter no-OMIPL/ENV COMPL/JUNE 2023 dated 25.05.2023 and is implemented project wise. |
| | ii. | The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms. | Agreed Proper PPE's provided for the worker. Without proper PPEs no one is allowed to work inside the plant premises. Safety awareness campaigns organised inside the plant premises with the objective of demonstrating the use of PPEs in different work zone and explaining the benefit of using PPEs. |

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

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| | |  <p>Tool Box Training</p>  <p>Workers Working with Proper PPE</p> |
| iii. | Occupational health surveillance of the workers shall be done on a regular basis and records maintained. | <p>Being Complied.</p> <p>The occupational health surveillance of the workers employed during operation & construction phase has been done and records are maintained as per the Factories Act.</p> <p>The OHS Record is attached as Annexure- VIII.</p> |
| IX. Environment Management | | |
| i. | The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and Undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed. | <p>In FY 2023-24 under the head of CSR/CER till Sept. 2023 Rs. 80,46,805 is spent under CER to full fill all the commitments.</p> <p>Photographs are already mentioned earlier in point no. xxxi under Specific Conditions.</p> |
| ii | The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should | The company shall have a well laid down environmental policy duly approved by the board of directors. The environmental policy should prescribe for standard operating procedures to have |

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

[Signature]

Director/Authorized Signatory

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| | <p>prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/ violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.</p> | <p>proper checks and balances and to bring into focus any infringements/ deviation/ violation of the environmental/ forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/ deviation/violation of the environmental/forest/ wildlife norms/ conditions and / or shareholders/stake holders.</p> <p>EHS policy is already submitted to IRO, MoEF&CC vide letter no-OMIPL/ENV COMPL/JUNE 2023 dated 25.05.2023.</p> |
| iii | <p>A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.</p> | <p>A separate Environmental cell both at project and company head quarter is in place.</p> <p>The Framework of EHS is already submitted to IRO, MoEF&CC vide letter no-OMIPL/ENV COMPL/JUNE 2023 dated 25.05.2023.</p> |
| X. Miscellaneous | | |
| i. | <p>The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.</p> | <p>Complied</p> <p>Advertisement for expansion project environment clearance dated 11.10.2022 issued by MOEFCC in favour of Orissa Metallurgical Industry Pvt. Ltd. published in two local newspapers that are widely circulated in the region are:</p> <ol style="list-style-type: none"> 1. Aajkal dated 10.10.2022 (Bengali) 2. The Echo of India dated 13.10.2022 (English) <p>Copies of latest advertisement are already submitted to IRO, MoEF&CC vide letter no-OMIPL/ENV COMPL/JUNE 2023 dated 25.05.2023.</p> |
| ii. | <p>The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayat and Municipal Bodies in addition to the</p> | <p>Complied</p> <p>Copies of EC dated 11.10.2022 w.r.t EC obtained in favour of Orissa Metallurgical Industry Pvt. Ltd. submitted to DM, Paschim Medinipur & Kalaikunda Gram Panchayat vide letter dated 13.10.2022</p> |

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| | relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt. | and mail dated 13.10.2022. Intimation letters are already submitted to IRO, MoEF&CC vide letter no-OMIPL/ENV COMPL/JUNE 2023 dated 25.05.2023. |
| iii. | The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis. | Complied. The environmental clearance and status of compliance of the stipulated environment clearance conditions, including results of monitored data uploaded and updated on regular basis on the website of the company http://orissametaliks.com/qehs.html |
| iv. | The project proponent shall monitor the criteria pollutants level namely; PM ₁₀ , SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company. | Being Complied. The criteria pollutants level namely; PM ₁₀ , PM _{2.5} , SO ₂ , NO _x (ambient levels as well as stack emissions) is monitored by third party monitoring agency which is NABL accredited laboratory and displayed at the plant main gate. Ambient data collected from CAAQMS is uploaded on the website of the company with six monthly EC compliance report https://orissametaliks.com/qehs.php . |
| v. | The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal. | Being Complied. The last compliance report for the period October 2022 to March 2023 has been submitted to ministry vide letter no-OMIPL/ENV COMPL/JUNE 2023 dated 25.05.2023 and also uploaded on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal. |
| vi. | The project proponent shall submit the environmental statement for each financial year in Form - V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company. | Agreed and will be complied. The project is still under construction phase. |
| vii. | The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and | Noted The company is a private company and no finance is needed from outside. Land |

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

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| | final approval of the project by the concern authorities, commencing the land development work and start of production operation by the project. | development work has been started after getting NOC from WBPCB. |
| viii | The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee. | Noted |
| ix. | The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain. | Is being complied with. Expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report I submitted with Six monthly EC compliance report and is uploaded on companies' website. |
| x. | No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MOEF&CC). | Being Complied with. In compliance to this point, TOR obtained from MoEFCC for expansion of Integrated Steel Plant from 2.0 million TPA with 385 MW CPP to Integrated Steel Plant of capacity 4.2 million TPA (Finished Steel) along with 536 MW Captive Power Plant by M/s. Orissa Metallurgical Industry Pvt. Ltd., having ToR Identification No. TO23A1001WB5596583E issued vide file no. IA-J-11011/56/2017-IA-II (IND-I) dated 01.05.2023 by ministry. |
| xii | The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project | Noted |

ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

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| | authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/ information/ monitoring reports. | |
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An ISO 9001:2008 & OHSAS 18001:2007 Certified Company, Empanelled with OCCL, ORSAC and SPCB of Govt. of Odisha
Accredited by NABET, QCI for EIA Studies as 'A' Category Consultant Organization. Empanelled with PCCF(Wildlife) & CWLW, Odisha
Enlisted in Construction Industry Development Council (CIDC) established by the Planning Commission (Govt. of India)
MoEF&CC, Govt. of India, Recognised Environment Laboratory under Environment (Protection) Act, 1986. NABL Accredited Laboratory

Reference No. : CEMC/OMIPL/NOV-A/14
Name of Company : Orissa Metallurgical Industry Private Limited
Sample Description : Stack Monitoring-DRI-2 X 350 TPD
Date of Monitoring : 04.11.2023
Sample Collected by : Mr. B. Samantaray
Stack Height : 79 meter

STACK EMISSION REPORT

| SL. NO. | PARAMETERS | METHOD NO. | RESULTS |
|---------|---|---|---------|
| 1. | Flue Gas Temperature ($^{\circ}$ C) | IS : 11255 (Part 1) | : 131 |
| 2. | Barometric Pressure (mm of Hg.) | -- | : 756 |
| 3. | Velocity of Gas flow (m/S) | IS : 11255 (Part 3) | : 10.19 |
| 4. | Concentration of CO ₂ % (v/v) | IS 13270 | : 10.6 |
| 5. | Concentration of particulate Matter (mg/Nm ³) | IS 11255 (Part - 1) & ASTM D 3685/D 3685M | : 14.84 |

Mr. B. Samantaray

Authorized Signatory



Notes:

- The results relate only to the sample tested.
- This Test Report shall not be reproduced wholly or in part without prior written consent of the laboratory.
- The samples received shall be destroyed after two weeks from the date of issue of the Test Report unless specified otherwise.
- This Test Report shall not be used in any advertising media or as evidence in the court of Law without prior written consent of the laboratory.



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MoEF&CC, Govt. of India, Recognised Environment Laboratory under Environment (Protection) Act, 1986. NABL Accredited Laboratory

Reference No. : CEMC/OMIPL/NOV-A/15
Name of Company : Orissa Metallurgical Industry Private Limited
Sample Description : Stack Monitoring-DRI 2 X600 TPD
Date of Monitoring : 04.11.2023
Sample Collected by : Mr. B. Samantaray
Stack Height : 79 meter

STACK EMISSION REPORT

| SL. NO. | PARAMETERS | METHOD NO. | RESULTS |
|---------|---|---|---------|
| 1. | Flue Gas Temperature ($^{\circ}$ C) | IS : 11255 (Part 1) | 169 |
| 2. | Barometric Pressure (mm of Hg.) | -- | 756 |
| 3. | Velocity of Gas flow (m/S) | IS : 11255 (Part 3) | 14.32 |
| 4. | Concentration of CO_2 % (v/v) | IS 13270 | 11.4 |
| 5. | Concentration of particulate Matter (mg/Nm^3) | IS 11255 (Part - 1) & ASTM D 3685/D 3685M | 20.99 |


Authorized Signatory



Seal of Laboratory

Notes:

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Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS& GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

Regd. Office: 1st Floor, N-5/305, IRC village, Nayapalli, Bhubaneswar-751015, Odisha, India, Mobile: 9861032826
E-mail- cemc_consultancy@yahoo.co.in, cemc122@gmail.com, website: www.cemc.in,

Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101,

E-mail: cemclab@yahoo.in

FORMAT FOR PROVIDING PARTICULARS ON GREEN BELT / PLANTATION UNDER E (P) ACT 1986

| | | | | | |
|---|--|---|--|--------------------------|-----------------|
| 1 | a) | Name of the Project : | M/s. Orissa Metallurgical Industry Pvt. Ltd. – Expansion of Integrated Steel Plant (1.0 Million TPA To 2.0 Million TPA Finished Steel) With 385 MW Captive Power Plant by M/s. Orissa Metallurgical Industry Pvt. Ltd., located at Mouza – Amba, Mathurakismat, Ghoshalchak, Radhanagar, Serampurjia, Mollarchak, Katapole, Tarabamni And Dhularchak, Village –Gokulpur, P.O – Shyamraipur, P.S – Kharagpur (L) Dist. Paschim Medinipur, West Bengal | | |
| | b) | Environment Clearance Nos. : | E.C. No. – IA – 11011/56/2017-IA-II (I) dated : 11.10.2022 | | |
| 2 | Location, Block/ Sub. Div./ Dist./ State: | | Mouza - Amba, Mathurakismat, Radhanagar & Srirampurjia, Village - Gokulpur, P.O. - Shyamraipur, P.S. – Kharagpur (L), District - Paschim Medinipur, West Bengal | | |
| 3 | Address for communication : | | 1, Garstin Place, Orbit House, 3rd Floor, Room No - 3B, Kolkata - 700 001 | | |
| 4 | Existing Vegetation in the area/ region : | | Vacant Land | | |
| | a) | Species (trees/shrubs/grasses/climbers) | | | |
| | b) | Major prevalent species of each type | | | |
| Land Coverage by the project | | | | | |
| 5 | a) | Total area under the project | 147.71 Ha | | |
| | b) | Area covered for basic infrastructure (roads/building/factory etc.) | Project is still in construction phase after obtaining valid NOC from WBPCB vide NOC no – 172028 dated 06.02.2023 | | |
| Details about natural vegetation | | | 100 % Vacant Land | | |
| 6 | a) | Name and number of tree/species failed | NA | | |
| | b) | Name and number of plant species still available in the area | NA | | |
| | c) | By protecting the area will indigenous stock come up | NA | | |
| | d) | Extend of greenbelt developed | 27.08 Ha (18.33%) | | |
| Plantation required to be carried out as per | | | | | |
| 7 | a) | Conditions of Environmental Clearance in ha./Nos. | 49.10 Ha (33.24%) | | |
| | b) | Conditions for forest act (c) Clearance in ha./Nos. | NA | | |
| | c) | Voluntary in no. for green belt development in nearby area | 3000 nos. | | |
| Details of Plantation | | | | | |
| 8 | a) | Plantation Details (Category wise & methodology used) | Year of Plantation | Species Planted | Quantity |
| | | | April to September 2023 | Krishnachura | 3619 |
| | | | | Kadam | 1170 |
| | | | | Sonajhuri/ Hybrid Acacia | 1582 |
| | | | | Tabobua rosea | 1123 |
| | | | | Yellow Oleander | 125 |
| | | | | Nerium | 45 |
| | | | | Chhatim | 1020 |
| | | | | Neem | 723 |
| | | | | Mahogany | 1131 |
| Siris | 105 | | | | |

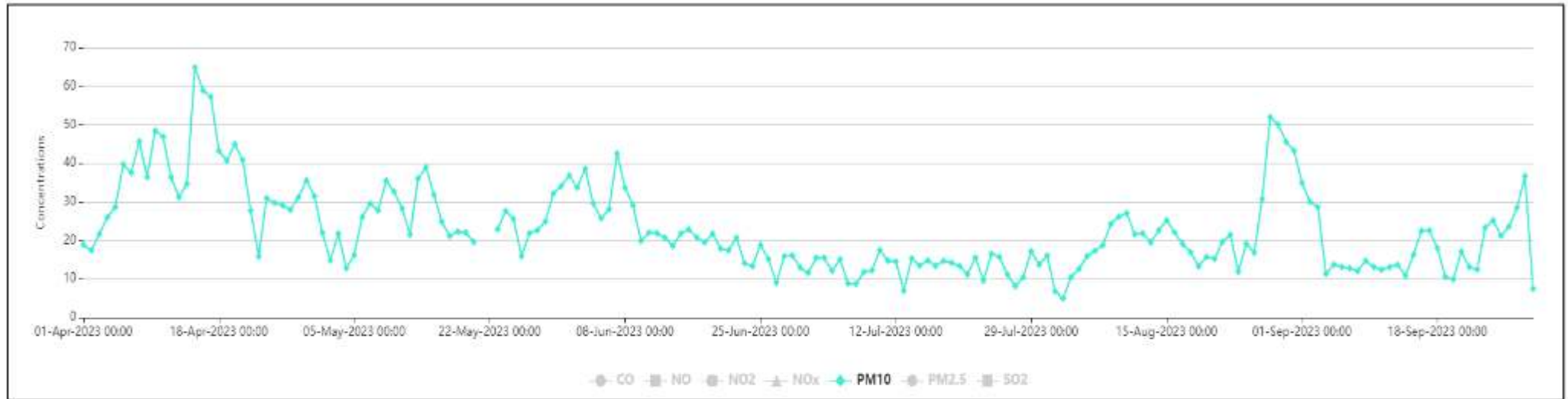
FORMAT FOR PROVIDING PARTICULARS ON GREEN BELT / PLANTATION UNDER E (P) ACT 1986

| | | | | | |
|----|--|--|-------------|--------------------------|--|
| | | | Arjun | 1912 | |
| | | | Sissoo | 1500 | |
| | | | Jarul | 622 | |
| | | | Gamar | 280 | |
| | | | Conocarpus | 1000 | |
| | | | Amaltus | 98 | |
| | | | Pathodea | 135 | |
| | | Survival of Plantation | FY: 2021-22 | FY: 2022-23 | FY: 2023-24 (Till Sept.) |
| | b) | Total seeding / Plantation (No.) | 32,700 | 35,000 | 16,190 |
| | | Survival Trees (No) as on date from date of EC | 27,795 | 31,500 | 14,571 |
| | | Survival | 85% | 90% | 90% |
| 9 | Agency carrying out plantation and maintenance | Our own horticulture department & third party | | | |
| 10 | Financial details (year wise) plantation wise and item wise | Sl. No. | Year | Funds allocated (Rupees) | Expenditure made including tree plantation cost (Rupees) |
| | | 1 | 2022-2023 | 3,50,00,000 | 2,62,50,000 |

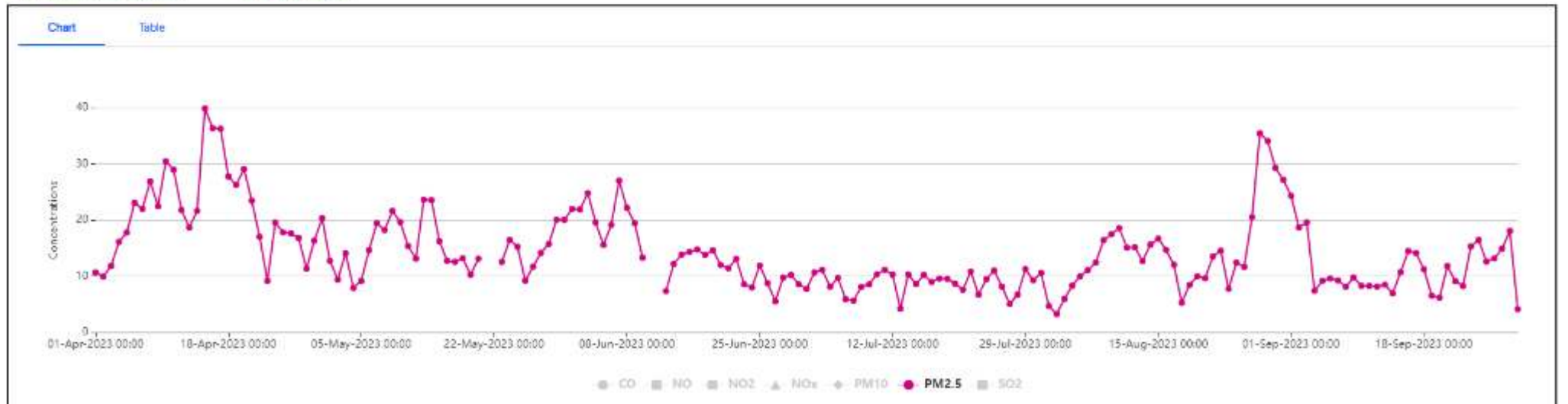
**RECENT PHOTOGRAPH OF GREEN BELT**

CAAQMS DATA (APRIL 2023 to SEPTEMBER 2023)

Location : Kalyanpur Village
Parameters : PM 10



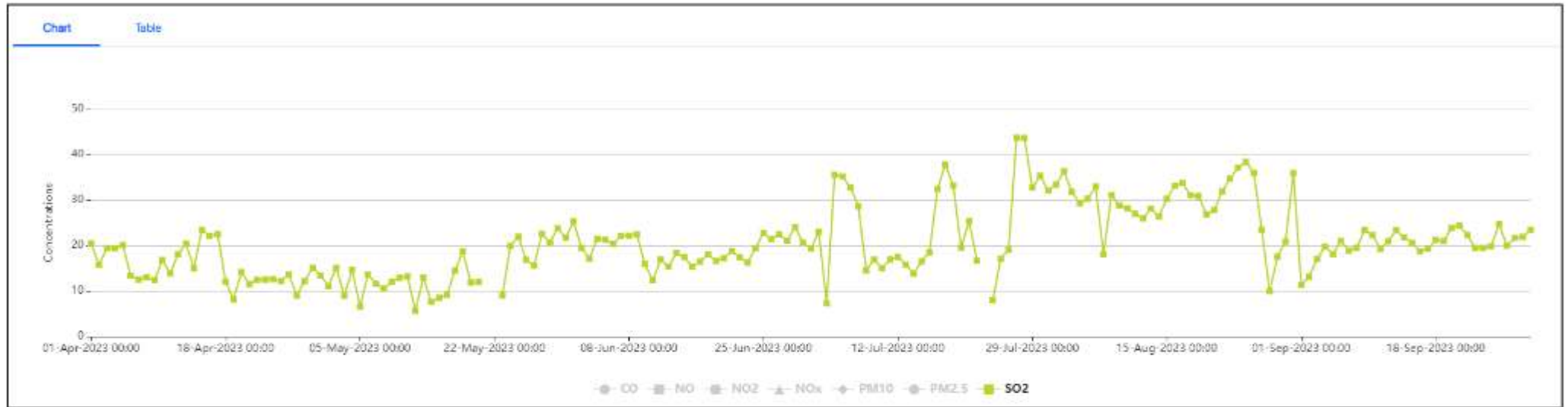
Location : Kalyanpur Village
Parameters : PM 2.5



CAAQMS DATA (APRIL 2023 to SEPTEMBER 2023)

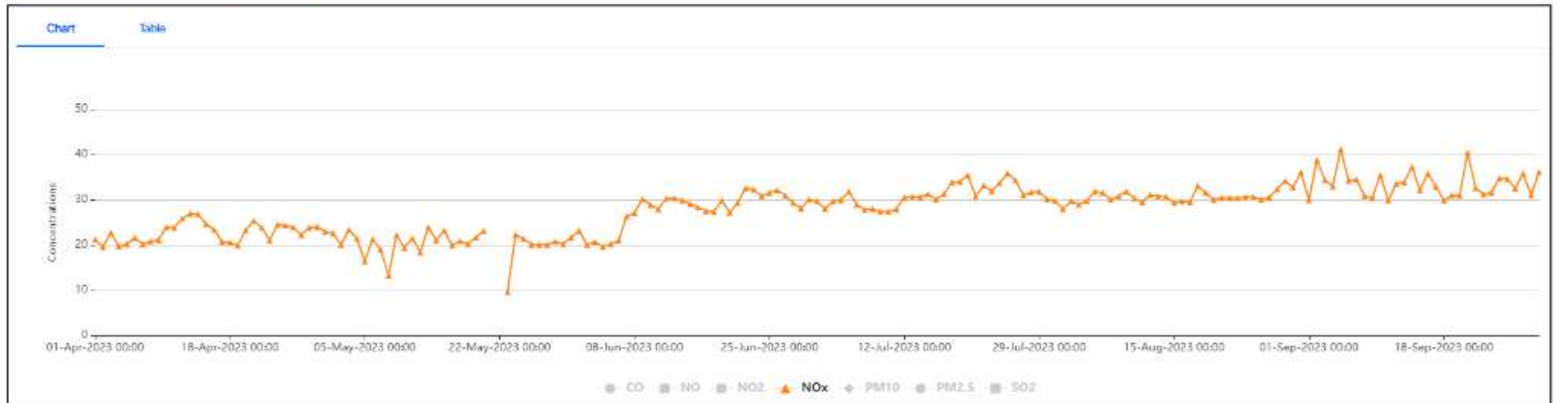
Location : Kalyanpur Village

Parameters : SO₂



Location : Kalyanpur Village

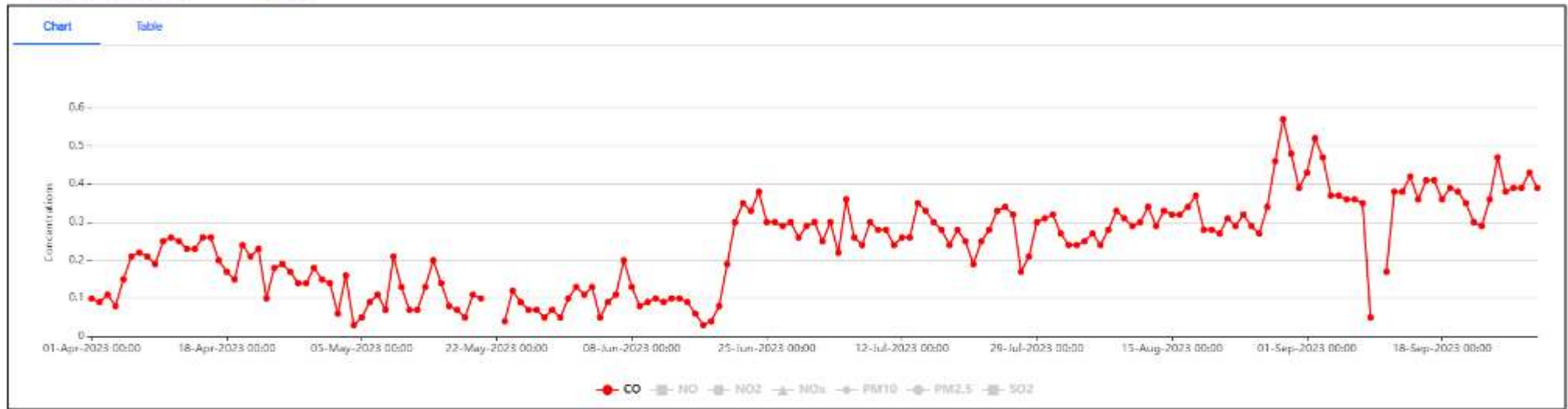
Parameters : NO_x



CAAQMS DATA (APRIL 2023 to SEPTEMBER 2023)

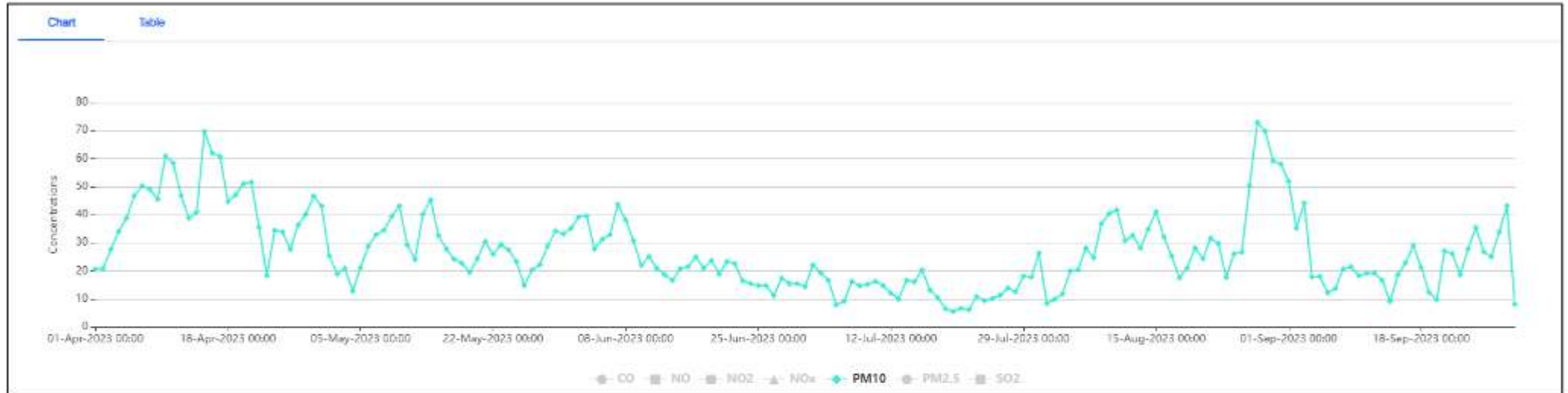
Location : Kalyanpur Village

Parameters : CO

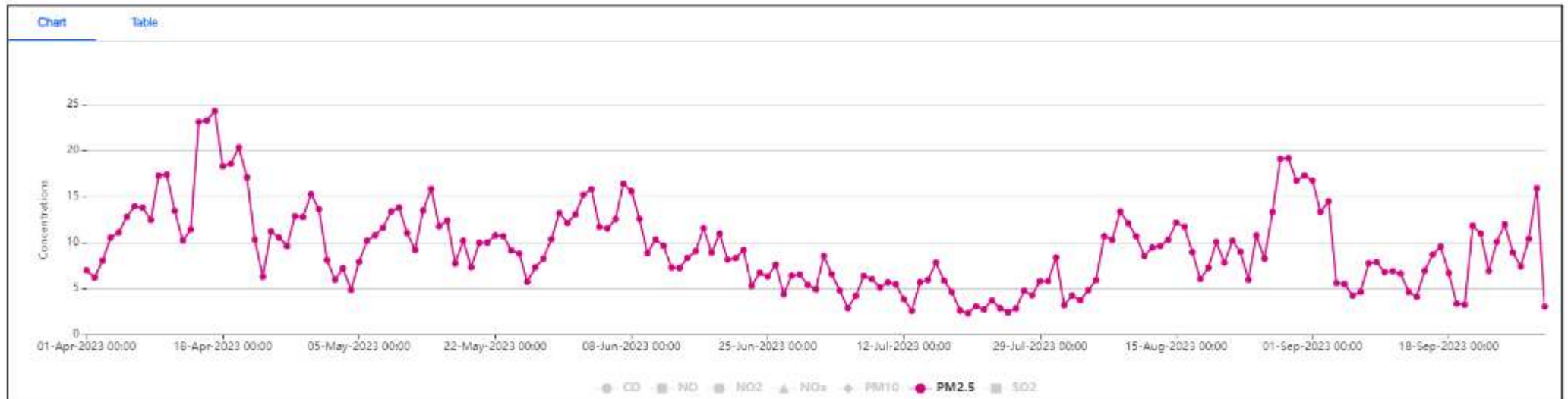


CAAQMS DATA (APRIL 2023 to SEPTEMBER 2023)

Location : Panchrulia Station
Parameters : PM 10



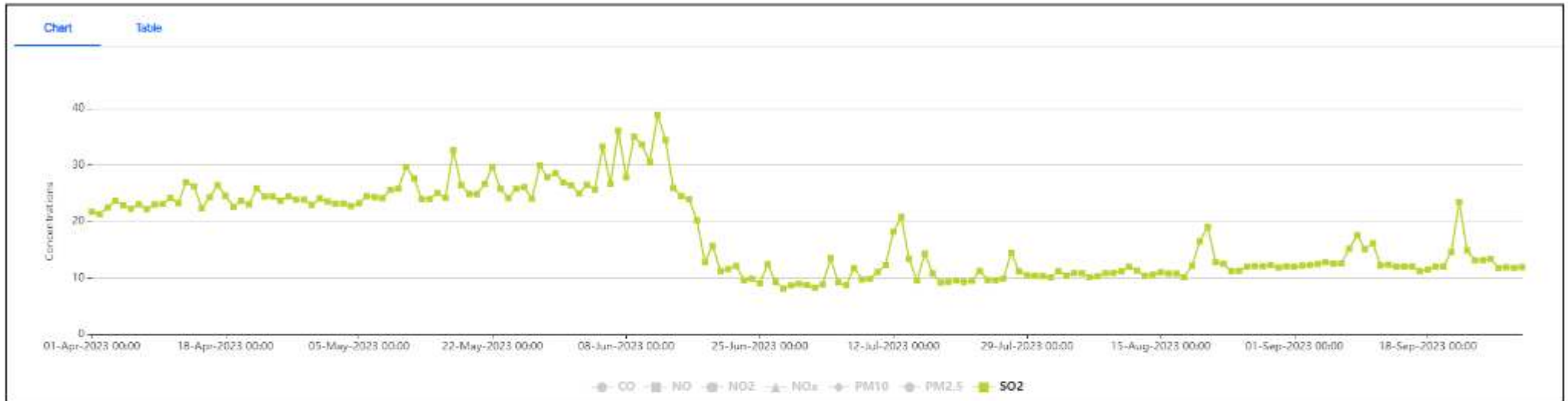
Location : Panchrulia Station
Parameters : PM 2.5



CAAQMS DATA (APRIL 2023 to SEPTEMBER 2023)

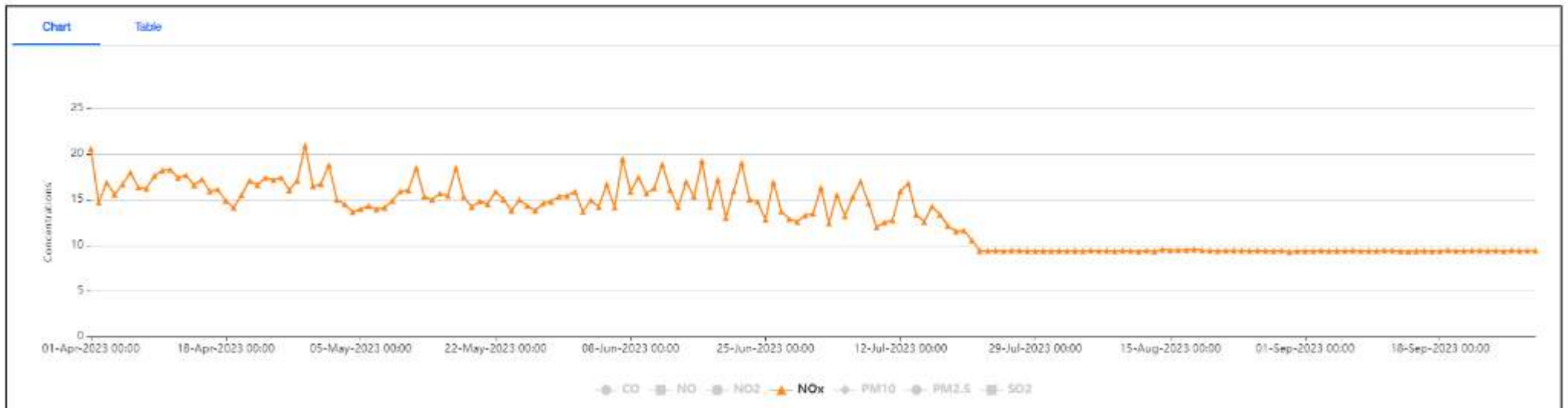
Location : Panchrulia Station

Parameters : SO₂



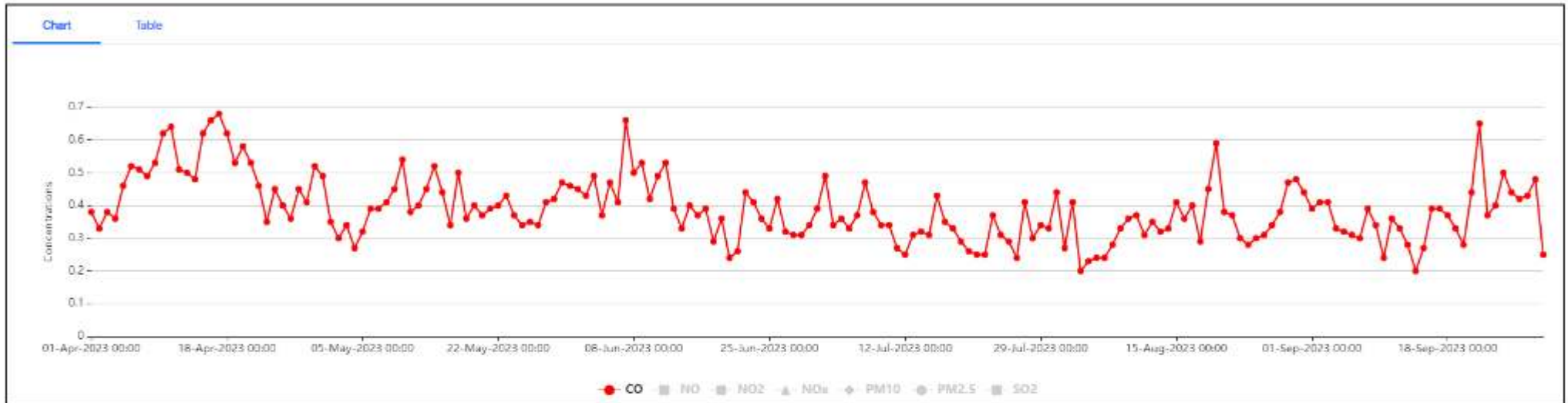
Location : Panchrulia Station

Parameters : NO_x



CAAQMS DATA (APRIL 2023 to SEPTEMBER 2023)

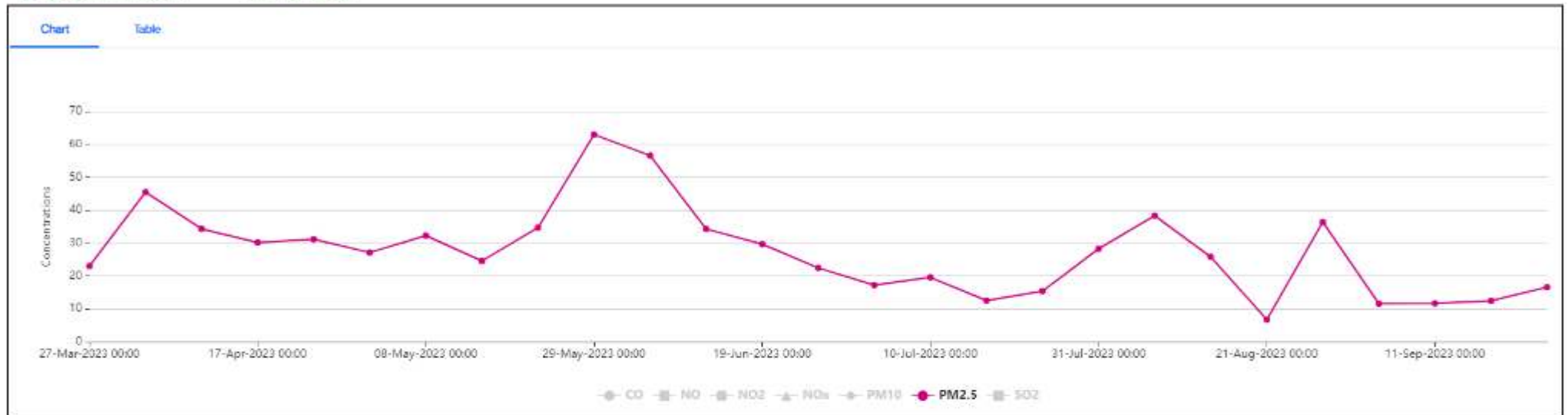
Location : Panchrulia Station
Parameters : CO



CAAQMS DATA (APRIL 2023 to SEPTEMBER 2023)

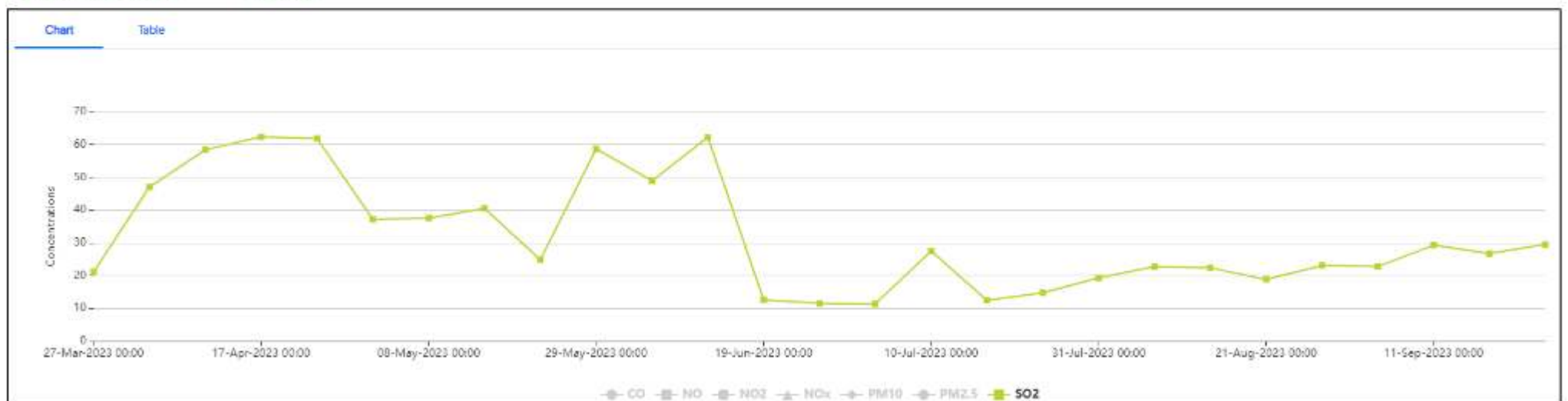
Location : Barkola Station

Parameters : PM 2.5



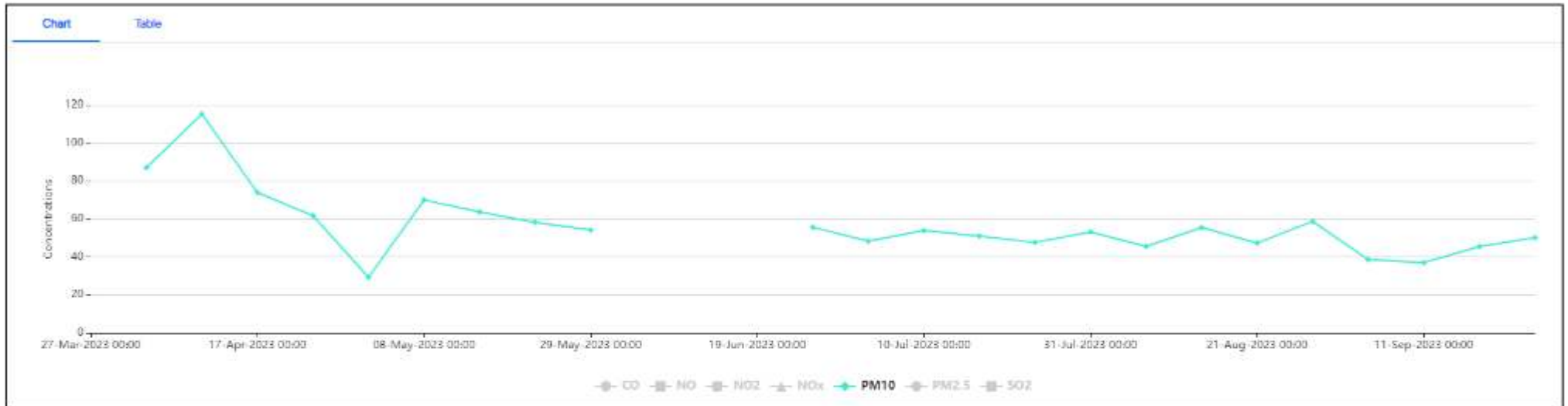
Location : Barkola Station

Parameters : SO2

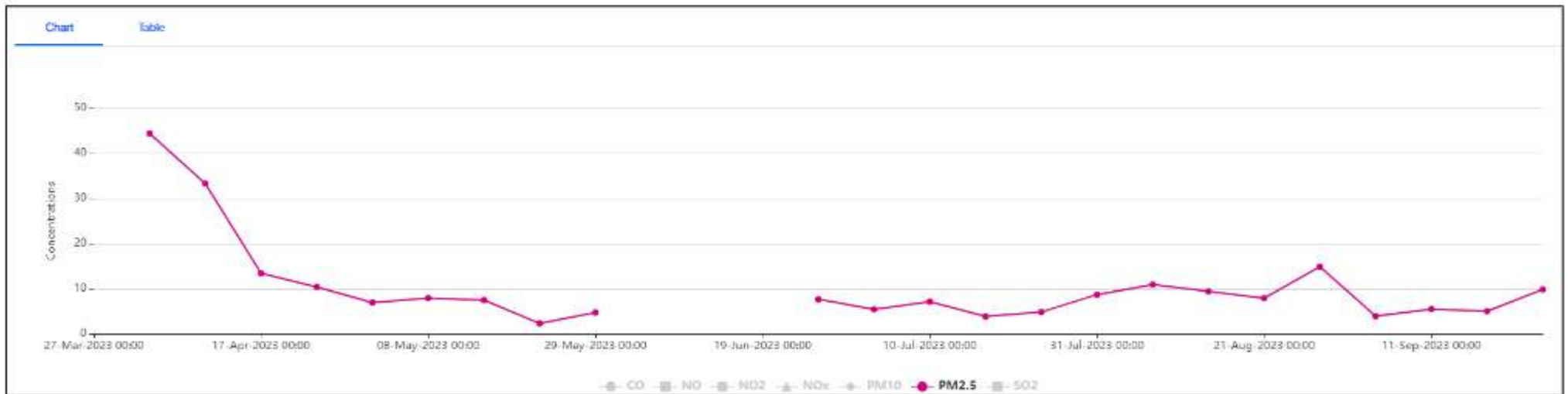


CAAQMS DATA (APRIL 2023 to SEPTEMBER 2023)

Location : Rajogram Station
Parameters : PM10



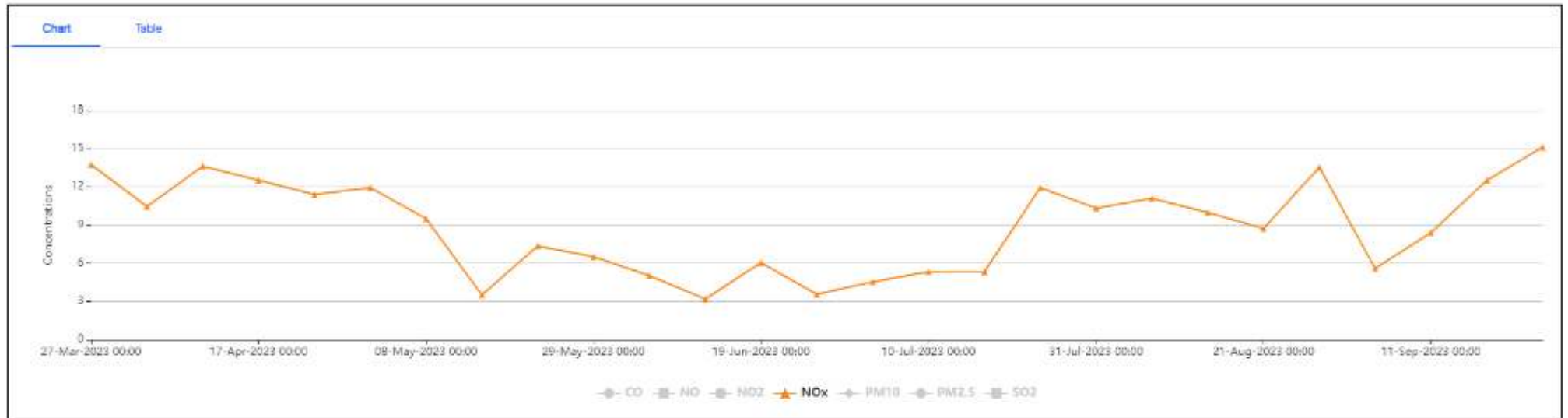
Location : Rajogram Station
Parameters : PM2.5



CAAQMS DATA (APRIL 2023 to SEPTEMBER 2023)

Location : Rajogram Station

Parameters : NOx





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Contact : 0343-2543019, 9732580459, 9433158173, email : greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com



TC-11003

TEST REPORT OF AMBIENT AIR ANALYSIS

FORMAT NO. : GV/LAB/FM/33A

Sample is drawn by M/s. Greenvision

U.L.R. No. : TC1100323000000489F

Report No. : GV/AR/23-24/251
 Name of Customer : M/s. Orissa Metallurgical Industry Pvt. Ltd.
 Address of Customer : Mouza : Mathurakismat, Gokulpur, Kharagpur,
 Dist. : Paschim Medinipur, Pin : 721301, W.B.
 Sample Description : Ambient Air
 Sampling Location : Gokulpur Village
 Sample Condition : In GMF Filter Paper & Plastic Bottle
 Location of Testing : At Laboratory
 Sampling Method : CPCB, Emission Regulation (Part III)

Sample Ref. ID : AS-159-2023(1)
 Report Date : 09.10.2023
 Date of Sampling : 25.09.2023 to
 26.09.2023
 Date of Receiving : 28.09.2023
 Analysis Started On : 29.09.2023
 Analysis Completed On : 30.09.2023
 Time of Sampling : 08:30 am to
 08:30 am

A. METROLOGICAL INFORMATION

Average Temperature (°C) : 29.2
 Average Relative Humidity (%) : 70.0
 Barometric Pressure (mm of Hg) : 756.0
 Smell or Odour : No Remarkable Smell
 Weather Condition : Clear Sky

B. RESULT OF ANALYSIS

| Sl. No. | Parameters | Unit | Concentration | Test Method |
|---------|------------------------------------|-------------------|---------------|--|
| 01. | Concentration of PM ₁₀ | µg/m ³ | 66.37 | IS : 5182 (Part 23),2006 |
| 02. | Concentration of PM _{2.5} | µg/m ³ | 34.58 | EPA CFR – 40 (pt 50) Appendix – 1 : 2003 |
| 03. | Concentration of SO ₂ | µg/m ³ | 8.79 | IS : 5182 (Part 2),2006 |
| 04. | Concentration of NO ₂ | µg/m ³ | 29.58 | IS : 5182 (Part 6),2006 |
| 05. | Concentration of CO | mg/m ³ | 0.169 | IS 5182 [Part 10] : 1999 Reaffirmed 2005 |

Limit : (µg/m³) National Ambient Air Quality Standard, CPCB Notification, 18 th November, 2009

PM₁₀ (24 Hrs) : 100, PM_{2.5} (24 Hrs) : 60, SO₂ (24 Hrs.) : 80, NO₂ (24 Hrs.) : 80, CO : 4 (mg/m³)

S. Sabyasachi Shyam Roy Chowdhury
 Reviewed by
 (Sabyasachi Shyam Roy Chowdhury)
 Quality Manager

S. Sabyasachi Shyam Roy Chowdhury
 (Sabyasachi Shyam Roy Chowdhury)
 Quality Manager
 Authorised Signatory
 For, GREEN VISION

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TEST REPORT OF AMBIENT AIR ANALYSIS

FORMAT NO. : GV/LAB/FM/33A

Sample is drawn by M/s. Greenvision

U.L.R. No. : TC110032300000490F

| | | | |
|---------------------|--|-----------------------|-------------------------------|
| Report No. | : GV/AR/23-24/252 | Sample Ref. ID | : AS-159-2023(2) |
| Name of Customer | : M/s. Orissa Metallurgical Industry Pvt. Ltd. | Report Date | : 09.10.2023 |
| Address of Customer | : Mouza : Mathurakismat, Gokulpur, Kharagpur, Dist. : Paschim Medinipur, Pin : 721301, W.B. | Date of Sampling | : 25.09.2023 to 26.09.2023 |
| Sample Description | : Ambient Air | Date of Receiving | : 28.09.2023 |
| Sampling Location | : Khosalchalk Village | Analysis Started On | : 29.09.2023 |
| Sample Condition | : In GMF Filter Paper & Plastic Bottle | Analysis Completed On | : 30.09.2023 |
| Location of Testing | : At Laboratory | Time of Sampling | : 09:10 am to 09:10 am |
| Sampling Method | : CPCB, Emission Regulation (Part III) | | |

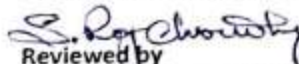
A. METROLOGICAL INFORMATION

| | |
|--------------------------------|-----------------------|
| Average Temperature (°C) | : 29.2 |
| Average Relative Humidity (%) | : 70.0 |
| Barometric Pressure (mm of Hg) | : 756.0 |
| Smell or Odour | : No Remarkable Smell |
| Weather Condition | : Clear Sky |

B. RESULT OF ANALYSIS

| Sl. No. | Parameters | Unit | Concentration | Test Method |
|---------|------------------------------------|-------------------|---------------|--|
| 01. | Concentration of PM ₁₀ | µg/m ³ | 61.15 | IS : 5182 (Part 23),2006 |
| 02. | Concentration of PM _{2.5} | µg/m ³ | 31.66 | EPA CFR – 40 (pt 50) Appendix – 1 : 2003 |
| 03. | Concentration of SO ₂ | µg/m ³ | 7.32 | IS : 5182 (Part 2),2006 |
| 04. | Concentration of NO ₂ | µg/m ³ | 31.55 | IS : 5182 (Part 6),2006 |
| 05. | Concentration of CO | mg/m ³ | 0.138 | IS 5182 [Part 10] : 1999 Reaffirmed 2005 |

Limit : (µg/m³) National Ambient Air Quality Standard, CPCB Notification, 18 th November, 2009
PM₁₀ (24 Hrs) : 100, PM_{2.5} (24 Hrs) : 60, SO₂ (24 Hrs.) : 80, NO₂ (24 Hrs.) : 80, CO : 4 (mg/m³)


Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager


(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

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TEST REPORT OF AMBIENT AIR ANALYSIS

FORMAT NO. : GV/LAB/FM/33A

Sample is drawn by M/s. Greenvision

U.L.R. No. : TC1100323000000491F

Report No. : GV/AR/23-24/253
Name of Customer : M/s. Orissa Metallurgical Industry Pvt. Ltd.
Address of Customer : Mouza : Mathurakismat, Gokulpur, Kharagpur,
Dist. : Paschim Medinipur, Pin : 721301, W.B.
Sample Description : Ambient Air
Sampling Location : Srirampurgia Village
Sample Condition : In GMF Filter Paper & Plastic Bottle
Location of Testing : At Laboratory
Sampling Method : CPCB, Emission Regulation (Part III)

Sample Ref. ID : AS-159-2023(3)
Report Date : 09.10.2023
Date of Sampling : 25.09.2023 to
26.09.2023
Date of Receiving : 28.09.2023
Analysis Started On : 29.09.2023
Analysis Completed On : 30.09.2023
Time of Sampling : 09:55 am to
09:55 am

A. METROLOGICAL INFORMATION

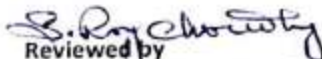
Average Temperature (°C) : 29.2
Average Relative Humidity (%) : 70.0
Barometric Pressure (mm of Hg) : 756.0
Smell or Odour : No Remarkable Smell
Weather Condition : Clear Sky

B. RESULT OF ANALYSIS

| Sl. No. | Parameters | Unit | Concentration | Test Method |
|---------|------------------------------------|-------------------|---------------|--|
| 01. | Concentration of PM ₁₀ | µg/m ³ | 58.29 | IS : 5182 (Part 23),2006 |
| 02. | Concentration of PM _{2.5} | µg/m ³ | 30.41 | EPA CFR – 40 (pt 50) Appendix – 1 : 2003 |
| 03. | Concentration of SO ₂ | µg/m ³ | 7.32 | IS : 5182 (Part 2),2006 |
| 04. | Concentration of NO ₂ | µg/m ³ | 30.94 | IS : 5182 (Part 6),2006 |
| 05. | Concentration of CO | mg/m ³ | 0.122 | IS 5182 [Part 10] : 1999 Reaffirmed 2005 |

Limit : (µg/m³) National Ambient Air Quality Standard, CPCB Notification, 18 th November, 2009

PM₁₀ (24 Hrs) : 100, PM_{2.5} (24 Hrs) : 60, SO₂ (24 Hrs.) : 80, NO₂ (24 Hrs.) : 80, CO : 4 (mg/m³)


Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager


(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

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TEST REPORT OF AMBIENT AIR ANALYSIS

FORMAT NO. : GV/LAB/FM/33A

Sample is drawn by M/s. Greenvision

U.L.R. No. : TC1100323000000492F

Report No. : GV/AR/23-24/254
Name of Customer : M/s. Orissa Metallurgical Industry Pvt. Ltd.
Address of Customer : Mouza : Mathurakismat, Gokulpur, Kharagpur,
Dist. : Paschim Medinipur, Pin : 721301, W.B.
Sample Description : Ambient Air
Sampling Location : Near Plant Main Gate
Sample Condition : In GMF Filter Paper & Plastic Bottle
Location of Testing : At Laboratory
Sampling Method : CPCB, Emission Regulation (Part III)

Sample Ref. ID : AS-159-2023(4)
Report Date : 09.10.2023
Date of Sampling : 25.09.2023 to
26.09.2023
Date of Receiving : 28.09.2023
Analysis Started On : 29.09.2023
Analysis Completed On : 30.09.2023
Time of Sampling : 10:30 am to
10:30 am

A. METROLOGICAL INFORMATION

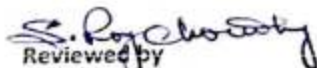
Average Temperature ($^{\circ}\text{C}$) : 29.2
Average Relative Humidity (%) : 70.0
Barometric Pressure (mm of Hg) : 756.0
Smell or Odour : No Remarkable Smell
Weather Condition : Clear Sky

B. RESULT OF ANALYSIS

| Sl. No. | Parameters | Unit | Concentration | Test Method |
|---------|------------------------------------|--------------------------|---------------|--|
| 01. | Concentration of PM ₁₀ | $\mu\text{g}/\text{m}^3$ | 77.92 | IS : 5182 (Part 23),2006 |
| 02. | Concentration of PM _{2.5} | $\mu\text{g}/\text{m}^3$ | 38.83 | EPA CFR – 40 (pt 50) Appendix – 1 : 2003 |
| 03. | Concentration of SO ₂ | $\mu\text{g}/\text{m}^3$ | 9.52 | IS : 5182 (Part 2),2006 |
| 04. | Concentration of NO ₂ | $\mu\text{g}/\text{m}^3$ | 32.4 | IS : 5182 (Part 6),2006 |
| 05. | Concentration of CO | mg/m^3 | 0.326 | IS 5182 [Part 10] : 1999 Reaffirmed 2005 |

Limit : ($\mu\text{g}/\text{m}^3$) National Ambient Air Quality Standard, CPCB Notification, 18 th November, 2009

PM₁₀ (24 Hrs) : 100, PM_{2.5} (24 Hrs) : 60, SO₂ (24 Hrs.) : 80, NO₂ (24 Hrs.) : 80, CO : 4 (mg/m^3)



Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager


(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

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TC-11003

TEST REPORT OF FUGITIVE AIR ANALYSIS

FORMAT NO. : GV/LAB/FM/33W

Sample is drawn by M/s. Greenvision

U.L.R. No. : TC110032300000493F

| | | | |
|---------------------|--|-----------------------|---------------------------|
| Report No. | : GV/AR/23-24/255 | Sample Ref. ID | : AS-159-2023(5) |
| Name of Customer | : M/s. Orissa Metallurgical Industry Pvt. Ltd. | Report Date | : 09.10.2023 |
| Address of Customer | : Mouza : Mathurakismat, Gokulpur, Kharagpur, Dist. : Paschim Medinipur, Pin : 721301, W.B. | Date of Sampling | : 26.09.2023 |
| Sample Description | : Fugitive Air | Date of Receiving | : 28.09.2023 |
| Sampling Location | : DRI 3 & 4 | Analysis Started On | : 29.09.2023 |
| Sample Condition | : In GMF Filter Paper & Plastic Bottle | Analysis Completed On | : 30.09.2023 |
| Location of Testing | : At Laboratory | Time of Sampling | : 09:05 am to 05:05 pm |
| Sampling Method | : CPCB, Emission Regulation (Part III) | | |

A. METROLOGICAL INFORMATION

Average Temperature (°C) : 29.8

Barometric Pressure (mm of Hg) : 756.0

B. RESULT OF ANALYSIS

| Sl. No. | Parameters | Unit | Concentration | Test Method |
|---------|----------------------------------|-------------------|---------------|-------------------------|
| 01. | Concentration of TSPM | µg/m ³ | 524.51 | IS : 5182 (Part 4),1999 |
| 02. | Concentration of SO ₂ | µg/m ³ | 8.05 | IS : 5182 (Part 2),2006 |
| 03. | Concentration of NO ₂ | µg/m ³ | 30.37 | IS : 5182 (Part 6),2006 |

Limit : (µg/m³) TSPM – 2000, SO₂ – 80, NO₂ – 80

Ref. : The Environment (Protection) Rules, 1986, Fourth Amendment, 2008 notified by G.S.R.414(E), dated 30.5.2008.

S. Sabyasachi Shyam Roy Chowdhury
Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

S. Sabyasachi Shyam Roy Chowdhury
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

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TC-11003

TEST REPORT OF FUGITIVE AIR ANALYSIS

FORMAT NO. : GV/LAB/FM/33W

Sample is drawn by M/s. Greenvision

U.L.R. No. : TC1100323000000494F

Report No. : GV/AR/23-24/256
Name of Customer : M/s. Orissa Metallurgical Industry Pvt. Ltd.
Address of Customer : Mouza : Mathurakismat, Gokulpur, Kharagpur,
Dist. : Paschim Medinipur, Pin : 721301, W.B.
Sample Description : Fugitive Air
Sampling Location : Truck Parking Area
Sample Condition : In GMF Filter Paper & Plastic Bottle
Location of Testing : At Laboratory
Sampling Method : CPCB, Emission Regulation (Part III)

Sample Ref. ID : AS-159-2023(6)
Report Date : 09.10.2023
Date of Sampling : 26.09.2023
Date of Receiving : 28.09.2023
Analysis Started On : 29.09.2023
Analysis Completed On : 30.09.2023
Time of Sampling : 09:40 am to
05:40 pm

A. METROLOGICAL INFORMATION

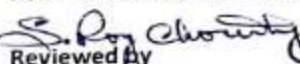
Average Temperature (°C) : 29.8
Barometric Pressure (mm of Hg) : 756.0

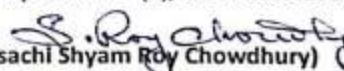
B. RESULT OF ANALYSIS

| Sl. No. | Parameters | Unit | Concentration | Test Method |
|---------|----------------------------------|--------------------------|---------------|--------------------------|
| 01. | Concentration of TSPM | $\mu\text{g}/\text{m}^3$ | 584.86 | IS : 5182 (Part 4), 1999 |
| 02. | Concentration of SO ₂ | $\mu\text{g}/\text{m}^3$ | 9.52 | IS : 5182 (Part 2), 2006 |
| 03. | Concentration of NO ₂ | $\mu\text{g}/\text{m}^3$ | 31.4 | IS : 5182 (Part 6), 2006 |

Limit : ($\mu\text{g}/\text{m}^3$) TSPM – 2000, SO₂ – 80, NO₂ – 80

Ref. : The Environment (Protection) Rules, 1986, Fourth Amendment, 2008 notified by G.S.R.414(E), dated 30.5.2008.


Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager


(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

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TEST REPORT OF FUGITIVE AIR ANALYSIS

FORMAT NO. : GV/LAB/FM/33W

Sample is drawn by M/s. Greenvision

U.L.R. No. : TC1100323000000495F

Report No. : GV/AR/23-24/257
Name of Customer : M/s. Orissa Metallurgical Industry Pvt. Ltd.
Address of Customer : Mouza : Mathurakismat, Gokulpur, Kharagpur,
Dist. : Paschim Medinipur, Pin : 721301, W.B.
Sample Description : Fugitive Air
Sampling Location : CPP Area
Sample Condition : In GMF Filter Paper & Plastic Bottle
Location of Testing : At Laboratory
Sampling Method : CPCB, Emission Regulation (Part III)

Sample Ref. ID : AS-159-2023(7)
Report Date : 09.10.2023
Date of Sampling : 26.09.2023
Date of Receiving : 28.09.2023
Analysis Started On : 29.09.2023
Analysis Completed On : 30.09.2023
Time of Sampling : 10:30 am to
06:30 pm

A. METROLOGICAL INFORMATION

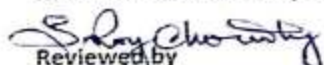
Average Temperature (°C) : 29.8
Barometric Pressure (mm of Hg) : 756.0

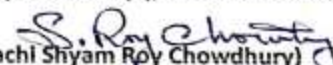
B. RESULT OF ANALYSIS

| Sl. No. | Parameters | Unit | Concentration | Test Method |
|---------|----------------------------------|-------------------|---------------|-------------------------|
| 01. | Concentration of TSPM | µg/m ³ | 490.28 | IS : 5182 (Part 4),1999 |
| 02. | Concentration of SO ₂ | µg/m ³ | 8.79 | IS : 5182 (Part 2),2006 |
| 03. | Concentration of NO ₂ | µg/m ³ | 31.58 | IS : 5182 (Part 6),2006 |

Limit : (µg/m³) TSPM – 2000, SO₂ – 80, NO₂ – 80

Ref. : The Environment (Protection) Rules, 1986, Fourth Amendment, 2008 notified by G.S.R.414(E), dated 30.5.2008.


Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager


(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

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TEST REPORT OF FUGITIVE AIR ANALYSIS

FORMAT NO. : GV/LAB/FM/33W

Sample is drawn by M/s. Greenvision

U.L.R. No. : TC1100323000000496F

Report No. : GV/AR/23-24/258
Name of Customer : M/s. Orissa Metallurgical Industry Pvt. Ltd.
Address of Customer : Mouza : Mathurakismat, Gokulpur, Kharagpur,
Dist. : Paschim Medinipur, Pin : 721301, W.B.
Sample Description : Fugitive Air
Sampling Location : Construction Site
Sample Condition : In GMF Filter Paper & Plastic Bottle
Location of Testing : At Laboratory
Sampling Method : CPCB, Emission Regulation (Part III)

Sample Ref. ID : AS-159-2023(8)
Report Date : 09.10.2023
Date of Sampling : 26.09.2023
Date of Receiving : 28.09.2023
Analysis Started On : 29.09.2023
Analysis Completed On : 30.09.2023
Time of Sampling : 11:00 am to
07:00 pm

A. METROLOGICAL INFORMATION

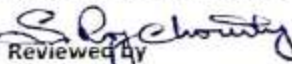
Average Temperature (°C) : 29.8
Barometric Pressure (mm of Hg) : 756.0

B. RESULT OF ANALYSIS

| Sl. No. | Parameters | Unit | Concentration | Test Method |
|---------|----------------------------------|-------------------|---------------|-------------------------|
| 01. | Concentration of TSPM | µg/m ³ | 645.75 | IS : 5182 (Part 4),1999 |
| 02. | Concentration of SO ₂ | µg/m ³ | 8.05 | IS : 5182 (Part 2),2006 |
| 03. | Concentration of NO ₂ | µg/m ³ | 31.55 | IS : 5182 (Part 6),2006 |

Limit : (µg/m³) TSPM – 2000, SO₂ – 80, NO₂ – 80

Ref. : The Environment (Protection) Rules, 1986, Fourth Amendment, 2008 notified by G.S.R.414(E), dated 30.5.2008.


Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager


(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

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Page 1/1

End of the report.....

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Branch Office : Durgachak, Haldia, Purba Medinipur, Ph. : 8101647425 M.N. Sarkar Road, Mahananda Para, Siliguri-734001



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TC-11003

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TEST REPORT OF FUGITIVE AIR ANALYSIS

FORMAT NO. : GV/LAB/FM/33W

Sample is drawn by M/s. Greenvision

U.L.R. No. : TC1100323000000497F

| | | | |
|---------------------|--|-----------------------|-------------------------------|
| Report No. | : GV/AR/23-24/259 | Sample Ref. ID | : AS-159-2023(9) |
| Name of Customer | : M/s. Orissa Metallurgical Industry Pvt. Ltd. | Report Date | : 09.10.2023 |
| Address of Customer | : Mouza : Mathurakismat, Gokulpur, Kharagpur, Dist. : Paschim Medinipur, Pin : 721301, W.B. | Date of Sampling | : 26.09.2023 to 27.09.2023 |
| Sample Description | : Fugitive Air | Date of Receiving | : 28.09.2023 |
| Sampling Location | : Water Reservoir Area | Analysis Started On | : 29.09.2023 |
| Sample Condition | : In GMF Filter Paper & Plastic Bottle | Analysis Completed On | : 30.09.2023 |
| Location of Testing | : At Laboratory | Time of Sampling | : 05:30 pm to 01:30 am |
| Sampling Method | : CPCB, Emission Regulation (Part III) | | |

A. METROLOGICAL INFORMATION

Average Temperature (°C) : 27.0

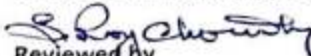
Barometric Pressure (mm of Hg) : 756.0

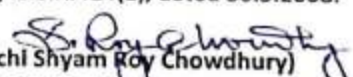
B. RESULT OF ANALYSIS

| Sl. No. | Parameters | Unit | Concentration | Test Method |
|---------|----------------------------------|-------------------|---------------|-------------------------|
| 01. | Concentration of TSPM | µg/m ³ | 508.34 | IS : 5182 (Part 4),1999 |
| 02. | Concentration of SO ₂ | µg/m ³ | 7.32 | IS : 5182 (Part 2),2006 |
| 03. | Concentration of NO ₂ | µg/m ³ | 28.33 | IS : 5182 (Part 6),2006 |

Limit : (µg/m³) TSPM – 2000, SO₂ – 80, NO₂ – 80

Ref. : The Environment (Protection) Rules, 1986, Fourth Amendment, 2008 notified by G.S.R.414(E), dated 30.5.2008.


Reviewed By
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager


(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

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TC-11003

TEST REPORT OF FUGITIVE AIR ANALYSIS

FORMAT NO. : GV/LAB/FM/33W

Sample is drawn by M/s. Greenvision

U.L.R. No. : TC1100323000000498F

| | | | |
|---------------------|--|-----------------------|-------------------------------|
| Report No. | : GV/AR/23-24/260 | Sample Ref. ID | : AS-159-2023(10) |
| Name of Customer | : M/s. Orissa Metallurgical Industry Pvt. Ltd. | Report Date | : 09.10.2023 |
| Address of Customer | : Mouza : Mathurakismat, Gokulpur, Kharagpur, Dist. : Paschim Medinipur, Pin : 721301, W.B. | Date of Sampling | : 26.09.2023 to 27.09.2023 |
| Sample Description | : Fugitive Air | Date of Receiving | : 28.09.2023 |
| Sampling Location | : DRI 1 & 2 | Analysis Started On | : 29.09.2023 |
| Sample Condition | : In GMF Filter Paper & Plastic Bottle | Analysis Completed On | : 30.09.2023 |
| Location of Testing | : At Laboratory | Time of Sampling | : 06:05 pm to 02:05 am |
| Sampling Method | : CPCB, Emission Regulation (Part III) | | |

A. METROLOGICAL INFORMATION

Average Temperature (°C) : 27.0

Barometric Pressure (mm of Hg) : 756.0

B. RESULT OF ANALYSIS

| Sl. No. | Parameters | Unit | Concentration | Test Method |
|---------|----------------------------------|-------------------|---------------|--------------------------|
| 01. | Concentration of TSPM | µg/m ³ | 599.89 | IS : 5182 (Part 4), 1999 |
| 02. | Concentration of SO ₂ | µg/m ³ | 8.79 | IS : 5182 (Part 2), 2006 |
| 03. | Concentration of NO ₂ | µg/m ³ | 29.76 | IS : 5182 (Part 6), 2006 |

Limit : (µg/m³) TSPM – 2000, SO₂ – 80, NO₂ – 80

Ref. : The Environment (Protection) Rules, 1986, Fourth Amendment, 2008 notified by G.S.R.414(E), dated 30.5.2008.

Reviewed by
Sabyasachi Shyam Roy Chowdhury
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

Sabyasachi Shyam Roy Chowdhury
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

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TEST REPORT OF WATER ANALYSIS

FORMAT NO. : GV/LAB/FIA/33W

U.L.R. No. : TC110032300000508F

| | | | |
|-----------------------|--|---------------------|----------------|
| Sample is drawn by | : Mr. Uttam Kr. Sil, Field Sampler | Laboratory Ref. No. | : 15-10-2023/A |
| Sample identification | : Nil | Report Date | : 05.10.2023 |
| Report No. | : GV/DW/OMIPL/23-24/007 | Date of Sampling | : 25.09.2023 |
| Issued To | : M/s. Orissa Metallurgical Industry Pvt. Ltd. | Sample Received on | : 22.09.2023 |
| Address | : Mouza : Mathurakismat, Gokulpur, Kharagpur, Dist. : Paschim Medinipur, Pin : 721301, W.B. | Analysis Started on | : 23.09.2023 |
| Sample Condition | : In Glass Bottle & Plastic Bottle | Analysis Completed | : 05.10.2023 |
| Sample Description | : Drinking Water | Time of Sampling | : 04:50 pm |
| Sampling Method | : APHA 24 th EDITION, 1060 | | |
| Location | : Tubewell at Kusumbag Village | | |

| Sl. No. | Parameters | Unit | Result | As Per IS:10500:2012 | | Method Followed [APHA 24 th EDITION] |
|---------|---|--------|-----------|----------------------|--|--|
| | | | | Acceptable Limit | Permissible limit in the absence of alternate source | |
| 1. | pH (at 25°C) | - | 6.85 | 6.5 to 8.5 | No Relaxation | 4500-H ⁺ B |
| 2. | Colour | Hazen | 1.0 | 5.0 | 15.0 | 2120 B |
| 3. | Odour | - | Agreeable | Agreeable | Agreeable | 2150 B |
| 4. | Taste | - | Agreeable | Agreeable | Agreeable | 2150 A |
| 5. | Turbidity | N.T.U. | 1.33 | 1 | 5 | 2130 B |
| 6. | Conductivity | µS/cm | 325.0 | - | - | 2510 B |
| 7. | Total Dissolved Solid (TDS) | mg/L | 234.0 | 500 | 2000 | 2540 C |
| 8. | Total Hardness as CaCO ₃ | mg/L | 140.0 | 200 | 600 | 2340 C |
| 9. | Chloride as Cl | mg/L | 26.03 | 250 | 1000 | 4500Cl ⁻ B |
| 10. | Total Alkalinity as CaCO ₃ | mg/L | 139.0 | 200 | 600 | 2320 B |
| 11. | Sulfate as SO ₄ | mg/L | 30.53 | 200 | 400 | 4500 SO ₄ ²⁻ E |
| 12. | Nitrate as NO ₃ ⁻ | mg/L | 3.4 | 45.0 | No Relaxation | 4500 NO ₃ ⁻ |



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TC-11003

| | | | | | | |
|-----|-------------------------|-----------|---------|--------|---------------|------------|
| 13. | Fluoride as F | mg/L | < 0.2 | 1 | 1.5 | 4500 FD |
| 14. | Calcium as Ca | mg/L | 32.86 | 75 | 200 | 3500- Ca B |
| 15. | Magnesium as Mg | mg/L | 14.09 | 30 | 100 | 3500- Mg B |
| 16. | Iron as Fe | mg/L | < 0.1 | 0.3 | No Relaxation | 3500-Fe B |
| 17. | Residual Free Chlorine | mg/L | Nil | 0.2 | 1.0 | 4500-Cl B |
| 18. | Aluminium as Al | mg/L | < 0.01 | 0.03 | 0.2 | 3500-Al B |
| 19. | Total Chromium as Cr | mg/L | < 0.01 | 0.05 | No Relaxation | 3500-Cr C |
| 20. | Copper as Cu | mg/L | < 0.01 | 0.05 | 1.5 | 3500-Cu B |
| 21. | Lead as Pb | mg/L | < 0.001 | 0.01 | No Relaxation | 3500-Pb B |
| 22. | Cyanide as Cn | mg/L | < 0.01 | 0.05 | No Relaxation | 4500-CN C |
| 23. | Nickel as Ni | mg/L | < 0.01 | 0.02 | No Relaxation | 3500-Ni |
| 24. | Cadmium as Cd | mg/L | < 0.001 | 0.003 | No Relaxation | 3500-Cd |
| 25. | Arsenic as As | mg/L | < 0.001 | 0.01 | 0.05 | 3500-As B |
| 26. | Zinc as Zn | mg/L | < 1.0 | 5.0 | 15.0 | 3500-Zn B |
| 27. | Mercury as Hg | mg/L | < 0.001 | 0.001 | No Relaxation | 3500-Hg |
| 28. | Total Coliform / 100ml. | MPN/100ml | Absent | Absent | Absent | 9221 B |
| 29. | E. Coli / 100ml | MPN/100ml | Absent | Absent | Absent | 9221 F |

S. Roy Chowdhury

Reviewed By
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

S. Roy Chowdhury
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

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TEST REPORT OF WATER ANALYSIS

FORMAT NO. : GV/LAB/FM/33W

U.L.R. No. : TC110032300000507F

| | | | |
|-----------------------|--|---------------------|------------------|
| Sample is drawn by | : Mr. Uttam Kr. Sil, Field Sampler | Laboratory Ref. No. | : DS-010-2023(3) |
| Sample identification | : Nil | Report Date | : 09.10.2023 |
| Report No. | : GV/DW/OMIPL/23-24/006 | Date of Sampling | : 26.09.2023 |
| Issued To | : M/s. Orissa Metallurgical Industry Pvt. Ltd. | | |
| Address | : Mouza : Mathurakismat, Gokulpur, Kharagpur, Dist. : Paschim Medinipur, Pin : 721301, W.B. | | |
| Sample Condition | : In Glass Bottle & Plastic Bottle | Sample Received on | : 28.09.2023 |
| Sample Description | : Drinking Water | Analysis Started on | : 29.09.2023 |
| Sampling Method | : APHA 24 th EDITION, 1060 | Analysis Completed | : 05.10.2023 |
| Location | : Tubewell at Amba Village | Time of Sampling | : 04:10 pm |

| Sl. No. | Parameters | Unit | Result | As Per IS:10500:2012 | | Method Followed [APHA 24 th EDITION] |
|---------|---|--------|-----------|----------------------|--|--|
| | | | | Acceptable Limit | Permissible limit in the absence of alternate source | |
| 1. | pH (at 25°C) | - | 7.04 | 6.5 to 8.5 | No Relaxation | 4500-H* B |
| 2. | Colour | Hazen | 1.0 | 5.0 | 15.0 | 2120 B |
| 3. | Odour | - | Agreeable | Agreeable | Agreeable | 2150 B |
| 4. | Taste | - | Agreeable | Agreeable | Agreeable | 2160 A |
| 5. | Turbidity | N.T.U. | 0.69 | 1 | 5 | 2130 B |
| 6. | Conductivity | µS/cm | 321.0 | - | - | 2510 B |
| 7. | Total Dissolved Solid (TDS) | mg/L | 232.0 | 500 | 2000 | 2540 C |
| 8. | Total Hardness as CaCO ₃ | mg/L | 138.0 | 200 | 600 | 2340 C |
| 9. | Chloride as Cl | mg/L | 27.96 | 250 | 1000 | 4500Cl B |
| 10. | Total Alkalinity as CaCO ₃ | mg/L | 144.0 | 200 | 600 | 2320 B |
| 11. | Sulfate as SO ₄ | mg/L | 36.14 | 200 | 400 | 4500 SO ₄ ²⁻ E |
| 12. | Nitrate as NO ₃ ⁻ | mg/L | 3.6 | 45.0 | No Relaxation | 4500 NO ₃ ⁻ |



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| | | | | | | |
|-----|-------------------------|-----------|---------|--------|---------------|------------|
| 13. | Fluoride as F | mg/L | < 0.2 | 1 | 1.5 | 4500 FD |
| 14. | Calcium as Ca | mg/L | 31.26 | 75 | 200 | 3500- Ca B |
| 15. | Magnesium as Mg | mg/L | 14.58 | 30 | 100 | 3500- Mg B |
| 16. | Iron as Fe | mg/L | < 0.1 | 0.3 | No Relaxation | 3500-Fe B |
| 17. | Residual Free Chlorine | mg/L | Nil | 0.2 | 1.0 | 4500-Cl B |
| 18. | Aluminium as Al | mg/L | < 0.01 | 0.03 | 0.2 | 3500-Al B |
| 19. | Total Chromium as Cr | mg/L | < 0.01 | 0.05 | No Relaxation | 3500-Cr C |
| 20. | Copper as Cu | mg/L | < 0.01 | 0.05 | 1.5 | 3500-Cu B |
| 21. | Lead as Pb | mg/L | < 0.001 | 0.01 | No Relaxation | 3500-Pb B |
| 22. | Cyanide as Cn | mg/L | < 0.01 | 0.05 | No Relaxation | 4500-CN C |
| 23. | Nickel as Ni | mg/L | < 0.01 | 0.02 | No Relaxation | 3500-Ni |
| 24. | Cadmium as Cd | mg/L | < 0.001 | 0.003 | No Relaxation | 3500-Cd |
| 25. | Arsenic as As | mg/L | < 0.001 | 0.01 | 0.05 | 3500-As B |
| 26. | Zinc as Zn | mg/L | < 1.0 | 5.0 | 15.0 | 3500-Zn B |
| 27. | Mercury as Hg | mg/L | < 0.001 | 0.001 | No Relaxation | 3500-Hg |
| 28. | Total Coliform / 100ml. | MPN/100ml | Absent | Absent | Absent | 9221 B |
| 29. | E. Coli / 100ml | MPN/100ml | Absent | Absent | Absent | 9221 F |

S. Roy Chowdhury

Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

S. Roy Chowdhury

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For, GREEN VISION

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TC-11003

TEST REPORT OF WATER ANALYSIS

FORMAT NO. : GV/LAB/FM/33W

U.L.R. No. : TC1100323000000506F

| | | | |
|-----------------------|--|---------------------|------------------|
| Sample is drawn by | : Mr. Uttam Kr. Sil, Field Sampler | Laboratory Ref. No. | : DS-010-2023(2) |
| Sample identification | : Nil | Report Date | : 09.10.2023 |
| Report No. | : GV/DW/OMIPL/23-24/005 | Date of Sampling | : 26.09.2023 |
| Issued To | : M/s. Orissa Metallurgical Industry Pvt. Ltd. | Sample Received on | : 28.09.2023 |
| Address | : Mouza : Mathurakismat, Gokulpur, Kharagpur, Dist. : Paschim Medinipur, Pin : 721301, W.B. | Analysis Started on | : 29.09.2023 |
| Sample Condition | : In Glass Bottle & Plastic Bottle | Analysis Completed | : 05.10.2023 |
| Sample Description | : Drinking Water | Time of Sampling | : 03:40 pm |
| Sampling Method | : APHA 24 th EDITION, 1060 | | |
| Location | : Tubewell at Maheshpur Village | | |

| Sl. No. | Parameters | Unit | Result | As Per IS:10500:2012 | | Method Followed [APHA 24 th EDITION] |
|---------|---|--------|-----------|----------------------|--|--|
| | | | | Acceptable Limit | Permissible limit in the absence of alternate source | |
| 1. | pH (at 25°C) | - | 7.0 | 6.5 to 8.5 | No Relaxation | 4500-H ⁺ B |
| 2. | Colour | Hazen | 1.0 | 5.0 | 15.0 | 2120 B |
| 3. | Odour | - | Agreeable | Agreeable | Agreeable | 2150 B |
| 4. | Taste | - | Agreeable | Agreeable | Agreeable | 2160 A |
| 5. | Turbidity | N.T.U. | 1.26 | 1 | 5 | 2130 B |
| 6. | Conductivity | µS/cm | 332.0 | - | - | 2510 B |
| 7. | Total Dissolved Solid (TDS) | mg/L | 240.0 | 500 | 2000 | 2540 C |
| 8. | Total Hardness as CaCO ₃ | mg/L | 150.0 | 200 | 600 | 2340 C |
| 9. | Chloride as Cl | mg/L | 25.07 | 250 | 1000 | 4500Cl ⁻ B |
| 10. | Total Alkalinity as CaCO ₃ | mg/L | 138.0 | 200 | 600 | 2320 B |
| 11. | Sulfate as SO ₄ | mg/L | 39.23 | 200 | 400 | 4500 SO ₄ ²⁻ E |
| 12. | Nitrate as NO ₃ ⁻ | mg/L | 4.1 | 45.0 | No Relaxation | 4500 NO ₃ ⁻ |



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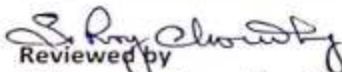
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| | | | | | | |
|-----|-------------------------|-----------|---------|--------|---------------|------------|
| 13. | Fluoride as F | mg/L | < 0.2 | 1 | 1.5 | 4500 FD |
| 14. | Calcium as Ca | mg/L | 28.86 | 75 | 200 | 3500- Ca B |
| 15. | Magnesium as Mg | mg/L | 10.48 | 30 | 100 | 3500- Mg B |
| 16. | Iron as Fe | mg/L | < 0.1 | 0.3 | No Relaxation | 3500-Fe B |
| 17. | Residual Free Chlorine | mg/L | Nil | 0.2 | 1.0 | 4500-Cl B |
| 18. | Aluminium as Al | mg/L | < 0.01 | 0.03 | 0.2 | 3500-Al B |
| 19. | Total Chromium as Cr | mg/L | < 0.01 | 0.05 | No Relaxation | 3500-Cr C |
| 20. | Copper as Cu | mg/L | < 0.01 | 0.05 | 1.5 | 3500-Cu B |
| 21. | Lead as Pb | mg/L | < 0.001 | 0.01 | No Relaxation | 3500-Pb B |
| 22. | Cyanide as Cn | mg/L | < 0.01 | 0.05 | No Relaxation | 4500-CN C |
| 23. | Nickel as Ni | mg/L | < 0.01 | 0.02 | No Relaxation | 3500-Ni |
| 24. | Cadmium as Cd | mg/L | < 0.001 | 0.003 | No Relaxation | 3500-Cd |
| 25. | Arsenic as As | mg/L | < 0.001 | 0.01 | 0.05 | 3500-As B |
| 26. | Zinc as Zn | mg/L | < 1.0 | 5.0 | 15.0 | 3500-Zn B |
| 27. | Mercury as Hg | mg/L | < 0.001 | 0.001 | No Relaxation | 3500-Hg |
| 28. | Total Coliform / 100ml. | MPN/100ml | Absent | Absent | Absent | 9221 B |
| 29. | E. Coli / 100ml | MPN/100ml | Absent | Absent | Absent | 9221 F |


Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager


(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

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TEST REPORT OF WATER ANALYSIS

FORMAT NO. : GV/LAB/FM/33W

U.L.R. No. : TC1100323000000505F

| | | | |
|-----------------------|--|---------------------|------------------|
| Sample is drawn by | : Mr. Uttam Kr. Sil, Field Sampler | Laboratory Ref. No. | : DS-010-2023(1) |
| Sample identification | : Nil | Report Date | : 09.10.2023 |
| Report No. | : GV/DW/OMIPL/23-24/004 | Date of Sampling | : 26.09.2023 |
| Issued To | : M/s. Orissa Metallurgical Industry Pvt. Ltd. | | |
| Address | : Mouza : Mathurakismat, Gokulpur, Kharagpur, Dist. : Paschim Medinipur, Pin : 721301, W.B. | | |
| Sample Condition | : In Glass Bottle & Plastic Bottle | Sample Received on | : 28.09.2023 |
| Sample Description | : Drinking Water | Analysis Started on | : 29.09.2023 |
| Sampling Method | : APHA 24 th EDITION, 1060 | Analysis Completed | : 05.10.2023 |
| Location | : Tubewell at Ghorachak Village | Time of Sampling | : 03:05 pm |

| Sl. No. | Parameters | Unit | Result | As Per IS:10500:2012 | | Method Followed [APHA 24 th EDITION] |
|---------|---|--------|-----------|----------------------|--|--|
| | | | | Acceptable Limit | Permissible limit in the absence of alternate source | |
| 1. | pH (at 25°C) | - | 7.05 | 6.5 to 8.5 | No Relaxation | 4500-H ⁺ B |
| 2. | Colour | Hazen | 1.0 | 5.0 | 15.0 | 2120 B |
| 3. | Odour | - | Agreeable | Agreeable | Agreeable | 2150 B |
| 4. | Taste | - | Agreeable | Agreeable | Agreeable | 2160 A |
| 5. | Turbidity | N.T.U. | 1.85 | 1 | 5 | 2130 B |
| 6. | Conductivity | µS/cm | 318.0 | - | - | 2510 B |
| 7. | Total Dissolved Solid (TDS) | mg/L | 229.0 | 500 | 2000 | 2540 C |
| 8. | Total Hardness as CaCO ₃ | mg/L | 158.0 | 200 | 600 | 2340 C |
| 9. | Chloride as Cl | mg/L | 27.0 | 250 | 1000 | 4500Cl ⁻ B |
| 10. | Total Alkalinity as CaCO ₃ | mg/L | 132.0 | 200 | 600 | 2320 B |
| 11. | Sulfate as SO ₄ | mg/L | 32.02 | 200 | 400 | 4500 SO ₄ ²⁻ E |
| 12. | Nitrate as NO ₃ ⁻ | mg/L | 3.8 | 45.0 | No Relaxation | 4500 NO ₃ ⁻ |



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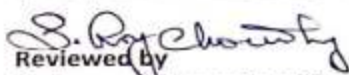
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| | | | | | | |
|-----|-------------------------|-----------|---------|--------|---------------|------------|
| 13. | Fluoride as F | mg/L | < 0.2 | 1 | 1.5 | 4500 FD |
| 14. | Calcium as Ca | mg/L | 27.25 | 75 | 200 | 3500- Ca B |
| 15. | Magnesium as Mg | mg/L | 21.87 | 30 | 100 | 3500- Mg B |
| 16. | Iron as Fe | mg/L | < 0.1 | 0.3 | No Relaxation | 3500-Fe B |
| 17. | Residual Free Chlorine | mg/L | Nil | 0.2 | 1.0 | 4500-Cl B |
| 18. | Aluminium as Al | mg/L | < 0.01 | 0.03 | 0.2 | 3500-Al B |
| 19. | Total Chromium as Cr | mg/L | < 0.01 | 0.05 | No Relaxation | 3500-Cr C |
| 20. | Copper as Cu | mg/L | < 0.01 | 0.05 | 1.5 | 3500-Cu B |
| 21. | Lead as Pb | mg/L | < 0.001 | 0.01 | No Relaxation | 3500-Pb B |
| 22. | Cyanide as Cn | mg/L | < 0.01 | 0.05 | No Relaxation | 4500-CN C |
| 23. | Nickel as Ni | mg/L | < 0.01 | 0.02 | No Relaxation | 3500-Ni |
| 24. | Cadmium as Cd | mg/L | < 0.001 | 0.003 | No Relaxation | 3500-Cd |
| 25. | Arsenic as As | mg/L | < 0.001 | 0.01 | 0.05 | 3500-As B |
| 26. | Zinc as Zn | mg/L | < 1.0 | 5.0 | 15.0 | 3500-Zn B |
| 27. | Mercury as Hg | mg/L | < 0.001 | 0.001 | No Relaxation | 3500-Hg |
| 28. | Total Coliform / 100ml. | MPN/100ml | Absent | Absent | Absent | 9221 B |
| 29. | E. Coli / 100ml | MPN/100ml | Absent | Absent | Absent | 9221 F |


Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager


(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

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TC-11003

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TEST REPORT OF NOISE LEVEL MONITORING

FORMAT NO. : GV/LAB/FM/33N

| | | |
|---------------------|--|-----------------------------------|
| Sample is drawn by | : M/s. Greenvision | U.L.R. No. : TC110032300000499F |
| Report No. | : GV/NL/23-24/084 | Sample Ref. ID : NLM-059-2023(1) |
| Name of Customer | : M/s. Orissa Metallurgical Industry Pvt. Ltd. | Report Date : 09.10.2023 |
| Address of Customer | : Mouza : Mathurakismat, Gokulpur, Kharagpur, Dist. : Paschim Medinipur, Pin : 721301, W.B. | Date of Sampling : 26.09.2023 |
| Sample Description | : Noise Level | Total Time : 1 Hr. |
| Sampling Location | : RISA Village | Sampling Method : IS : 9989 :1981 |
| Noise Level Limit | : Day Time : 55 dB(A), Night Time : 45 dB(A) { Source : The Noise Pollution (Regulation and Control) Rules, 2000} | |
| Monitoring Details | : Distance from Object : 3.0 Mtr. Height from the Ground : 1.5 Mtr. | |
| Category of Area | : Residential Area | |

| Noise Level dB (A) | | | | | |
|-----------------------------------|------|------|---------------------------------------|------|------|
| Day Time (06:00Hrs to 22:00 Hrs.) | | | Night Time (22:00 Hrs. to 06:00 Hrs.) | | |
| Max. | Min. | Leq. | Max. | Min. | Leq. |
| 60.9 | 50.8 | 56.8 | 52.2 | 43.8 | 48.6 |

S. Roy Chowdhury
 Reviewed by
 (Sabyasachi Shyam Roy Chowdhury)
 Quality Manager

S. Roy Chowdhury
 (Sabyasachi Shyam Roy Chowdhury)
 Quality Manager
 Authorised Signatory
 For, GREEN VISION

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TC-11003

TEST REPORT OF NOISE LEVEL MONITORING

FORMAT NO. : GV/LAB/FM/33N

U.L.R. No. : TC1100323000000500F

Sample is drawn by : M/s. Greenvision
Report No. : GV/NL/23-24/085
Name of Customer : M/s. Orissa Metallurgical Industry Pvt. Ltd.
Address of Customer : Mouza : Mathurakismat, Gokulpur, Kharagpur,
Dist. : Paschim Medinipur, Pin : 721301, W.B.
Sample Description : Noise Level
Sampling Location : Radhanagar Village
Noise Level Limit : Day Time : 55 dB(A), Night Time : 45 dB(A)
{ Source : The Noise Pollution (Regulation and Control) Rules, 2000}

Monitoring Details : Distance from Object : 3.0 Mtr.
Height from the Ground : 1.5 Mtr.
Category of Area : Residential Area

Sample Ref. ID : NLM-059-2023(2)
Report Date : 09.10.2023
Date of Sampling : 26.09.2023 &
27.09.2023
Total Time : 1 Hr.
Sampling Method : IS : 9989 :1981

| Noise Level dB (A) | | | | | |
|-----------------------------------|------|------|---------------------------------------|------|------|
| Day Time (06:00Hrs to 22:00 Hrs.) | | | Night Time (22:00 Hrs. to 06:00 Hrs.) | | |
| Max. | Min. | Leq. | Max. | Min. | Leq. |
| 60.5 | 54.8 | 58.9 | 51.6 | 41.6 | 47.6 |

S. Roy Chowdhury

Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

S. Roy Chowdhury
(Sabyasachi Shyam Roy Chowdhury)

Quality Manager
Authorised Signatory
For, GREEN VISION

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TEST REPORT OF NOISE LEVEL MONITORING

FORMAT NO. : GV/LAB/FM/33N

Sample is drawn by : M/s. Greenvision U.L.R. No. : TC1100323000000501F
Report No. : GV/NL/23-24/086 Sample Ref. ID : NLM-059-2023(3)
Name of Customer : M/s. Orissa Metallurgical Industry Pvt. Ltd. Report Date : 09.10.2023
Address of Customer : Mouza : Mathurakismat, Gokulpur, Kharagpur, Date of Sampling : 26.09.2023 &
Dist. : Paschim Medinipur, Pin : 721301, W.B. 27.09.2023
Sample Description : Noise Level Total Time : 1 Hr.
Sampling Location : Jhatibandh Village Sampling Method : IS : 9989 :1981
Noise Level Limit : Day Time : 55 dB(A), Night Time : 45 dB(A)
{ Source : The Noise Pollution (Regulation and Control) Rules, 2000}
Monitoring Details : Distance from Object : 3.0 Mtr.
Height from the Ground : 1.5 Mtr.
Category of Area : Residential Area

| Noise Level dB (A) | | | | | |
|-----------------------------------|------|------|---------------------------------------|------|------|
| Day Time (06:00Hrs to 22:00 Hrs.) | | | Night Time (22:00 Hrs. to 06:00 Hrs.) | | |
| Max. | Min. | Leq. | Max. | Min. | Leq. |
| 62.5 | 55.4 | 58.9 | 52.3 | 40.5 | 46.1 |


Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager


(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

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TC-11003

TEST REPORT OF NOISE LEVEL MONITORING

FORMAT NO. : GV/LAB/FM/33N

Sample is drawn by : M/s. Greenvision U.L.R. No. : TC110032300000502F
Report No. : GV/NL/23-24/087 Sample Ref. ID : NLM-059-2023(4)
Name of Customer : M/s. Orissa Metallurgical Industry Pvt. Ltd. Report Date : 05.10.2023
Address of Customer : Mouza : Mathurakismat, Gokulpur, Kharagpur, Date of Sampling : 26.09.2023 &
Dist. : Paschim Medinipur, Pin : 721301, W.B. 27.09.2023
Sample Description : Noise Level Total Time : 24 Hrs.
Sampling Location : DRI & CPP Area Sampling Method : IS : 9989 :1981

| Time | Lmax dB (A) | Lmin dB (A) | Leq dB (A) |
|--------------------------|----------------|----------------|---------------|
| 09:55 hrs. to 10:55 hrs. | 62.4 | 54.2 | 59.5 |
| 10:55 hrs. to 11:55 hrs. | 60.0 | 52.3 | 57.4 |
| 11:55 hrs. to 12:55 hrs. | 61.7 | 53.1 | 58.8 |
| 12:55 hrs. to 13:55 hrs. | 60.6 | 53.0 | 58.0 |
| 13:55 hrs. to 14:55 hrs. | 59.7 | 52.3 | 57.2 |
| 14:55 hrs. to 15:55 hrs. | 58.5 | 51.8 | 56.3 |
| 15:55 hrs. to 16:55 hrs. | 62.4 | 54.7 | 59.8 |
| 16:55 hrs. to 17:55 hrs. | 61.2 | 53.0 | 58.3 |
| 17:55 hrs. to 18:55 hrs. | 59.0 | 52.2 | 56.8 |
| 18:55 hrs. to 19:55 hrs. | 60.6 | 53.8 | 57.8 |
| 19:55 hrs. to 20:55 hrs. | 58.7 | 52.4 | 56.7 |
| 20:55 hrs. to 21:55 hrs. | 57.2 | 51.9 | 55.6 |
| 21:55 hrs. to 22:55 hrs. | 61.4 | 55.9 | 59.4 |
| 22:55 hrs. to 23:55 hrs. | 62.5 | 56.0 | 60.1 |
| 23:55 hrs. to 00:55 hrs. | 60.5 | 54.0 | 58.4 |
| 00:55 hrs. to 01:55 hrs. | 62.8 | 54.5 | 59.8 |
| 01:55 hrs. to 02:55 hrs. | 61.4 | 53.6 | 58.5 |
| 02:55 hrs. to 03:55 hrs. | 60.2 | 54.2 | 58.4 |
| 03:55 hrs. to 04:55 hrs. | 59.8 | 52.0 | 57.0 |
| 04:55 hrs. to 05:55 hrs. | 57.6 | 50.4 | 55.2 |
| 05:55 hrs. to 06:55 hrs. | 62.4 | 54.6 | 59.2 |
| 06:55 hrs. to 07:55 hrs. | 58.2 | 51.2 | 55.8 |
| 07:55 hrs. to 08:55 hrs. | 61.3 | 54.5 | 58.9 |
| 08:55 hrs. to 09:55 hrs. | 60.6 | 53.8 | 58.4 |

S. Roy Chowdhury
Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

S. Roy Chowdhury
(Sabyasachi Shyam Roy Chowdhury)
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TEST REPORT OF NOISE LEVEL MONITORING

FORMAT NO. : GV/LAB/FM/33N

Sample is drawn by : M/s. Greenvision U.L.R. No. : TC1100323000000503F
Report No. : GV/NL/23-24/088 Sample Ref. ID : NLM-059-2023(5)
Name of Customer : M/s. Orissa Metallurgical Industry Pvt. Ltd. Report Date : 05.10.2023
Address of Customer : Mouza : Mathurakismat, Gokulpur, Kharagpur, Date of Sampling : 26.09.2023 &
Dist. : Paschim Medinipur, Pin : 721301, W.B. 27.09.2023
Sample Description : Noise Level Total Time : 24 Hrs.
Sampling Location : Truck Parking Area Sampling Method : IS : 9989 :1981

| Time | Lmax dB (A) | Lmin dB (A) | Leq dB (A) |
|--------------------------|----------------|----------------|---------------|
| 10:40 hrs. to 11:40 hrs. | 60.8 | 53.2 | 58.2 |
| 11:40 hrs. to 12:40 hrs. | 62.9 | 54.3 | 59.8 |
| 12:40 hrs. to 13:40 hrs. | 62.1 | 55.1 | 59.3 |
| 13:40 hrs. to 14:40 hrs. | 58.6 | 51.0 | 56.0 |
| 14:40 hrs. to 15:40 hrs. | 59.7 | 52.4 | 56.2 |
| 15:40 hrs. to 16:40 hrs. | 62.3 | 55.8 | 59.8 |
| 16:40 hrs. to 17:40 hrs. | 61.4 | 54.7 | 59.1 |
| 17:40 hrs. to 18:40 hrs. | 60.2 | 53.2 | 57.8 |
| 18:40 hrs. to 19:40 hrs. | 58.0 | 52.4 | 56.3 |
| 19:40 hrs. to 20:40 hrs. | 59.8 | 53.1 | 57.5 |
| 20:40 hrs. to 21:40 hrs. | 60.7 | 54.9 | 58.9 |
| 21:40 hrs. to 22:40 hrs. | 62.2 | 55.9 | 60.2 |
| 22:40 hrs. to 23:40 hrs. | 58.4 | 51.8 | 56.3 |
| 23:40 hrs. to 00:40 hrs. | 57.5 | 51.0 | 55.4 |
| 00:40 hrs. to 01:40 hrs. | 56.7 | 50.0 | 54.5 |
| 01:40 hrs. to 02:40 hrs. | 57.8 | 52.5 | 56.0 |
| 02:40 hrs. to 03:40 hrs. | 58.6 | 52.6 | 56.9 |
| 03:40 hrs. to 04:40 hrs. | 59.0 | 53.2 | 56.6 |
| 04:40 hrs. to 05:40 hrs. | 60.7 | 54.0 | 58.5 |
| 05:40 hrs. to 06:40 hrs. | 61.6 | 55.4 | 59.7 |
| 06:40 hrs. to 07:40 hrs. | 62.4 | 56.6 | 60.7 |
| 07:40 hrs. to 08:40 hrs. | 59.2 | 53.2 | 57.3 |
| 08:40 hrs. to 09:40 hrs. | 56.3 | 50.5 | 54.5 |
| 09:40 hrs. to 10:40 hrs. | 55.6 | 50.8 | 54.0 |

S. Roy Chowdhury
Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

S. Roy Chowdhury
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
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TEST REPORT OF NOISE LEVEL MONITORING

FORMAT NO. : GV/LAB/FM/33N

Sample is drawn by : M/s. Greenvision
Report No. : GV/NL/23-24/089
Name of Customer : M/s. Orissa Metallurgical Industry Pvt. Ltd.
Address of Customer : Mouza : Mathurakismat, Gokulpur, Kharagpur,
Dist. : Paschim Medinipur, Pin : 721301, W.B.
Sample Description : Noise Level
Sampling Location : Construction Site

U.L.R. No. : TC1100323000000504F
Sample Ref. ID : NLM-059-2023(6)
Report Date : 05.10.2023
Date of Sampling : 26.09.2023 &
27.09.2023
Total Time : 24 Hrs.
Sampling Method : IS : 9989 :1981

| Time | Lmax dB (A) | Lmin dB (A) | Leq dB (A) |
|--------------------------|----------------|----------------|---------------|
| 11:50 hrs. to 12:50 hrs. | 59.6 | 52.3 | 57.2 |
| 12:50 hrs. to 13:50 hrs. | 60.5 | 54.8 | 58.8 |
| 13:50 hrs. to 14:50 hrs. | 62.2 | 54.4 | 59.5 |
| 14:50 hrs. to 15:50 hrs. | 60.7 | 55.3 | 59.2 |
| 15:50 hrs. to 16:50 hrs. | 61.6 | 54.9 | 59.5 |
| 16:50 hrs. to 17:50 hrs. | 61.9 | 55.6 | 59.1 |
| 17:50 hrs. to 18:50 hrs. | 60.2 | 52.9 | 57.8 |
| 18:50 hrs. to 19:50 hrs. | 62.7 | 53.6 | 59.3 |
| 19:50 hrs. to 20:50 hrs. | 58.3 | 51.5 | 56.0 |
| 20:50 hrs. to 21:50 hrs. | 57.6 | 50.9 | 55.5 |
| 21:50 hrs. to 22:50 hrs. | 62.5 | 53.3 | 58.7 |
| 22:50 hrs. to 23:50 hrs. | 60.3 | 52.7 | 57.3 |
| 23:50 hrs. to 00:50 hrs. | 61.2 | 53.5 | 58.0 |
| 00:50 hrs. to 01:50 hrs. | 60.4 | 51.8 | 56.7 |
| 01:50 hrs. to 02:50 hrs. | 59.3 | 53.6 | 57.6 |
| 02:50 hrs. to 03:50 hrs. | 58.2 | 51.8 | 56.2 |
| 03:50 hrs. to 04:50 hrs. | 62.5 | 54.6 | 59.4 |
| 04:50 hrs. to 05:50 hrs. | 57.7 | 50.2 | 55.1 |
| 05:50 hrs. to 06:50 hrs. | 62.8 | 55.6 | 60.4 |
| 06:50 hrs. to 07:50 hrs. | 58.4 | 52.9 | 56.8 |
| 07:50 hrs. to 08:50 hrs. | 62.0 | 55.7 | 59.9 |
| 08:50 hrs. to 09:50 hrs. | 60.4 | 54.4 | 58.3 |
| 09:50 hrs. to 10:50 hrs. | 62.7 | 56.2 | 60.7 |
| 10:50 hrs. to 11:50 hrs. | 59.3 | 52.7 | 57.0 |

S. Roy Chowdhury
Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

S. Roy Chowdhury
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

Note: 1. This report refers to the values obtained at the time of testing and results related to the items tested.
2. This certificate may not be reproduced in part or full without written permission of the management.

Record of Eye Examination of Orissa Metallurgical Industry Pvt. Ltd.

| SL. NO. | DEPARTMENT/W ORK | NAME OF WORKER | SEX | AGE (on last birthday) | OCCUPATION | | EXAMINATION OF EYE SIGHT | | SIGNATURE OF OPHTHALMOLOGIST | REMARKS |
|---------|-------------------------|-----------------------|-----|------------------------|------------|--------------------|--------------------------|--------|------------------------------|---------|
| | | | | | Nature | Date of Employment | Date | Result | | |
| 09 | Hydrova operator - GDPL | Aklesh Ray | M | 29 | operator | 13/08/2019 | 15/09/2023 | DE < 6 | SAS | FIT |
| 10 | Hydrova operator - GDPL | Rabi Shankar Tripathy | M | 33 | operator | 20/11/2020 | 15/09/2023 | DE < 6 | SAS | FIT |
| 11 | Tank operator - GDPL | Amit Mishra | M | 29 | operator | 01/01/2021 | 15/09/2023 | DE < 6 | SAS | FIT |
| 12 | Hydrova driver - GDPL | Munishwan Mishra | M | 32 | driver | 12/08/2023 | 15/09/2023 | DE < 6 | SAS | FIT |
| 13 | JCP operators - GDPL | Basudev Mjhi | M | 26 | operator | 14/09/2023 | 15/09/2023 | DE < 6 | SAS | FIT |
| 14 | Hydrova driver - GDPL | Lalchand Soren | M | 28 | driver | 04/04/2023 | 15/09/2023 | DE < 6 | SAS | FIT |
| 15 | Hydrova driver - GDPL | Anadi Mishra | M | 31 | driver | 04/04/2023 | 15/09/2023 | DE < 6 | SAS | FIT |
| 16 | Roller operator | Jagan Mishra | M | 38 | operator | 27/04/2016 | 15/09/2023 | DE < 6 | SAS | FIT |

Dr. Sanjay Das
MBBS - DLO (S) (2023)
Ophthalmologist
402011

FORM NO.17(A)

Record of Eye Examination of Orissa Metallurgical Industry Pvt. Ltd.

| SL. NO. | DEPARTMENT/W ORK | NAME OF WORKER | SEX | AGE(on last birthday) | OCCUPATION | | EXAMINATION OF EYE SIGHT | | SIGNATURE OF OPHTHALMOLOGIST | REMARKS |
|---------|------------------|---------------------|-----|-----------------------|-------------|--------------------|--------------------------|--------|------------------------------|---------|
| | | | | | Nature | Date of Employment | Date | Result | | |
| 17 | Hyva operator | Dibakar Chatak | M | 87 | operator | 02/06/2022 | 15/07/2023 | BE < 6 | SAS | Fit |
| 18 | Hyva operator | Chandrabhadr GFRS-h | M | 87 | operator | 14/09/2023 | 15/07/2023 | BE < 6 | SAS | Fit |
| 19 | operator | MUKESH ANSARI | M | 33 | operator | 12/04/2019 | 15/07/2023 | BE < 6 | SAS | Fit |
| 20 | Roller operator | Prakash Mondal | M | 30 | operator | 24/03/2023 | 15/07/2023 | BE < 6 | SAS | Fit |
| 21 | GPC operator | Sagar Das Mondal | M | 22 | operator | 13/07/2023 | 15/07/2023 | BE < 6 | SAS | Fit |
| 22 | Roller operator | Ashis K.S. Das | M | 87 | operator | 19/05/2022 | 15/07/2023 | BE < 6 | SAS | Fit |
| 23 | Time keeper | Suman Das | M | 25 | Time keeper | 13/09/2023 | 15/07/2023 | BE < 6 | SAS | Fit |
| 24 | Mid-Jared Rigger | Bipin Yadav | M | 20 | Rigger | | 15/07/2023 | BE < 6 | SAS | Fit |

Dr. Saurabh Das
MBBS - DLO
(Ophthalmologist)
15/07/2023
Form - 42401

FORM NO.17(A)

Record of Eye Examination of Orissa Metallurgical Industry Pvt. Ltd.

| SL. NO. | DEPARTMENT/W ORK | NAME OF WORKER | SEX | AGE(on last birthday) | OCCUPATION | | EXAMINATION OF EYE SIGHT | | SIGNATURE OF OPHTHALMOLOGIST | REMARKS |
|---------|------------------|------------------|-----|-----------------------|------------|--------------------|--------------------------|--------|------------------------------|---------|
| | | | | | Nature | Date of Employment | Date | Result | | |
| 25 | Civil | Rohit Sinha | M | 32 | Civil | | 15/09/2023 | BE<1/2 | SAS | Fit |
| 26 | P&A | Prabir Mondal | M | 30 | P&A | 27/09/2021 | 15/09/2023 | BE<1/2 | SAS | Fit |
| 27 | Civil | Kamakhanta Jena | M | 37 | Civil | | 15/09/2023 | BE<1/2 | SAS | Fit |
| 28 | Civil | Sudipy kr. Bora | M | 28 | Civil | 19/03/2017 | 15/09/2023 | BE<1/2 | SAS | Fit |
| 29 | HR | Subhankar Biswas | M | 29 | HR | 07/07/2023 | 15/09/2023 | DB<1/2 | SAS | Fit |
| 30 | Safety officer | Souvik Pal | M | 29 | Safety | 09/10/2022 | 15/09/2023 | BE<1/2 | SAS | Fit |
| 31 | Safety officers | Harepal Singh | M | 35 | Safety | 12/06/2023 | 15/09/2023 | BE<1/2 | SAS | Fit |
| 32 | Power operator | N. Sekhar Babu | M | 33 | operator | 24/01/2022 | 15/09/2023 | BE<1/2 | SAS | Fit |

Dr. Sanjay Das
MBBS - DLO
(Ophthalmologist)
15/09/2023

FORM NO.17(A)

Record of Eye Examination of Orissa Metallurgical Industry Pvt. Ltd.

| SL. NO. | DEPARTMENT/W ORK | NAME OF WORKER | SEX | AGE(on last birthday) | OCCUPATION | | EXAMINATION OF EYE SIGHT | | SIGNATURE OF OPHTHALMOLOGIST | REMARKS |
|---------|------------------|----------------|-----|-----------------------|------------|--------------------|--------------------------|--------|------------------------------|---------|
| | | | | | Nature | Date of Employment | Date | Result | | |
| 33 | Safety officer | Suman Pramanik | M | 23 | Safety | 14/02/2022 | 15/09/2023 | DE 5/6 | [Signature] | Fit |
| 34 | Drivers | Goutam Mahata | M | 26 | drivers | 01/04/2023 | 14/09/2023 | DE 5/6 | [Signature] | Fit |
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Dr. Sanjay Das
 MBBS - DLO
 (Ophthalmologist)
 Rqno - 42401
 14/09/2023

1. Serial No. in the Register of adult worker : 0M7P2

2. Name of worker : Anand Ranjan

3. Sex : M

4. Date of Birth : 21/08/1994

| 1 Department/ works | 2 Name of hazardous process | 3 Dangerous process/ operation | 4 Nature of job or occupation | 5 Raw materials, products or by-products likely to be exposed to | 6 Date of posting | 7 Date of leaving/ transfer to other work | 8 Reason for discharge/ transfer to other work | 9 Medical |
|--------------------------------------|-----------------------------------|---|-------------------------------------|---|-------------------------|--|---|--|
| | | | | | | | | Signs and symptoms observed during examination |
| DRI - Project Utility Sr Engrg | | | | | 16/03/2023 | | | |
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1. Serial No. in the Register of adult worker : DMIPL

2. Name of worker : Arpan Nandi

3. Sex : M

4. Date of Birth : 26/02/2000

| Department/ works | Name of hazardous process | Dangerous process/ operation | Nature of job or occupation | Raw materials, products or by-products likely to be exposed to | Date of posting | Date of leaving/ transfer to other work | Reason for discharge/ transfer to other work | Medical Signs and symptoms observed during examination |
|----------------------|------------------------------|------------------------------------|--------------------------------|--|--------------------|---|--|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| <u>csp Project</u> | | | | | <u>30/02/2020</u> | | | |
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FORM NO. 17

HEALTH

[Prescribed under Rules 63 & 94 of The West Bengal Factories Rules, 1958]


- 1. Serial No. in the Register of adult worker : MYT
- 2. Name of worker : SUBHANKAR MANDAL
- 3. Sex : M
- 4. Date of Birth : 10/02/1995

| Department/ works | Name of hazardous process | Dangerous process/ operation | Nature of job or occupation | Raw materials, products or by-products likely to be exposed to | Date of posting | Date of leaving/ transfer to other work | Reason for discharge/ transfer to other work | Medical Signs and symptoms observed during examination |
|--------------------------|------------------------------|------------------------------------|--------------------------------|--|--------------------|---|--|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| OHC/ Medical Asst. | | | | | 26/10/2023 | | | |
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REGISTER

as amended vide Notification No. 1183-LW-IR-1/91 dated 27th Nov. 1991]

No. 1

| examination and the results thereof | | if declared unfit for work | | | | Signature with date of the Factory Medical Officer / the Certifying Surgeon |
|--------------------------------------|---------------------|---|--------------------------------|---|--|--|
| Nature of tests & results thereof | Result Fit/Unfit | Period of Temporary withdrawal from that work | Reasons for such withdrawal | Date of declaring him unfit for that work | Date of issuing fitness Certificate | |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| Wt. 70kg Ht. 5'5" | Fit | | | | |  DR. DEBASHISH DEY SARKAR MBBS, FCCG-BANGALORE Reg. No-61136 (WBMC) (Factory Medical Officer) |
| BP. 122/82 PR- 72 | | | | | | |
| BMI. 25.67 Anaemia- Nil | | | | | | |
| B. group- A+ | | | | | | |
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FORM NO. 17

HEALTH

[Prescribed under Rules 63 & 94 of The West Bengal Factories Rules, 1958]

1. Serial No. in the Register of adult worker : OMIPL

2. Name of worker : KAMALA KANNAN

3. Sex : M

4. Date of Birth : 17/09/1998

| Department/ works | Name of hazardous process | Dangerous process/ operation | Nature of job or occupation | Raw materials, products or by-products likely to be exposed to | Date of posting | Date of leaving/ transfer to other work | Reason for discharge/ transfer to other work | Medical Signs and symptoms observed during examination |
|------------------------------|------------------------------|------------------------------------|--------------------------------|--|--------------------|---|--|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| CPP- operation/ SR-DGM | | | | | 26/10/2023 | | | |
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GREENVISION

(A leading environmental research laboratory)

Recognized by West Bengal Pollution Control Board

Urvashi Malhar, Phase II, MEAV-25, Bengal Ambuja Housing Complex, City Centre, Durgapur-713216

Contact : 0343-2543019, 9732580459, 9433158173, email : greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com



TC-11603

SLAG ANALYSIS REPORT

FORMAT NO. : GV/LAB/FM/335

Sample is drawn by M/s. Greenvision

Sample submitted and identified by customer as : Nil

U.L.R. No. : TC1100323000000509F

Report No. : GV/SS/23-24/024

Laboratory Ref. No. : SS-013-2023

Issued to : M/s. Orissa Metallurgical Industry Pvt. Ltd.

Report Date : 05.10.2023

Address : Mouza : Mathurakismat, Gokulpur, Kharagpur,
Dist. : Paschim Medinipur, Pin : 721301, W.B.

Date of Sampling : 26.09.2023

Sample Description : Solid Sample

Sample Received on : 28.09.2023

Location : Heap of Dolochar

Analysis Started on : 29.09.2023

Sample Condition : In Plastic Pouch

Analysis Completed on : 03.10.2023

Type of Sample : Dolochar

Time of Sampling : 04:50 pm

| Sl. No. | Parameters | Test Method | Unit | Results | Limit as per EPA CHAPTER-7 |
|---------|----------------------|-------------|------|--------------------|----------------------------|
| 01 | Cadmium as Cd | EPA 200.8 | mg/l | BDL (DL: 0.1 µg/l) | 1.0 |
| 02 | Mercury as Hg | EPA 200.8 | mg/l | BDL (DL: 0.1 µg/l) | 0.2 |
| 03 | Total Chromium as Cr | EPA 200.8 | mg/l | 0.92 | 5.0 |
| 04 | Arsenic as As | EPA 200.8 | mg/l | BDL (DL: 0.1 µg/l) | 5.0 |
| 05 | Barium as Ba | EPA 200.8 | mg/l | 1.05 | 100.0 |
| 06 | Lead as Pb | EPA 200.8 | mg/l | 0.52 | 5.0 |
| 07 | Selenium as Se | EPA 200.8 | mg/l | BDL (DL: 0.1 µg/l) | 1.0 |
| 08 | Silver as Ag | EPA 200.8 | mg/l | BDL (DL: 0.1 µg/l) | 5.0 |

*TCLP extraction has been done & the extract analyzed for the above parameters

S. Roy Chowdhury
Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

S. Roy Chowdhury
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

- Note: 1. This report refers to the values obtained at the time of testing and results related to the items tested.
2. This certificate may not be reproduced in part or full without written permission of the management.
3. Retention period of tested sample is 1 month from the date of issue test report unless otherwise specified.