

Six Monthly (DECEMBER-2023) Compliance Report for Period April 2023 to September 2023 for Sponge iron plant (6 x 100 + 1 x 350 + 1 x 500 + 1 x 600 TPD)-7,80,000 TPA along with 83 MW Captive power plant (WHRB-52 MW + AFBC-6 MW + CFBC-25 MW) at Village Gokulpur, P.O. Shyamraipur, P.S. Kharagpur (Local) District West Medinipur, West Bengal.

1 message

ORISSA METALIKS <orissametalikspvtltd@gmail.com> Thu, Nov 30, 2023 at 11:20 AM
To: "roez.bsr-mef@nic.in" <roez.bsr-mef@nic.in>, iro.kolkata-mefcc@gov.in, ms@wbpcb.gov.in, "wbpcbnet@wbpcb.gov.in" <wbpcbnet@wbpcb.gov.in>, Monitoring Cell <monitoring-ec@nic.in>
Bcc: bijayen.srivastava@rashmigroup.com, Biswanath Sharma <biswanath@rashmigroup.com>, ompl1.environment@rashmigroup.co.in

Dear Sir,

With reference to the above, we are hereby submitting the six monthly compliance reports for period from April 2023 to September 2023 of EC no.- **J-11011/229/2007-I (A)** dated 07.07.2021 and EC No- **J-11011/227/2007-I(A) dated** 12.6.2008, 10.12.2008, 12.02.2015, 06.01.2017, 30.08.2018 & 26.12.2019 for Sponge iron plant (6 x 100 + 1 x 350 + 1 x 500 + 1 x 600 TPD)-7,80,000 TPA along with 83 MW Captive power plant (WHRB-52 MW + AFBC-6 MW + CFBC-25 MW) at Village Gokulpur, P.O. Shyamraipur, P.S. Kharagpur (Local) District West Medinipur, West Bengal being operated by the name of **M/s Orissa Metaliks Private Limited (Unit-I)**.

As per Environment Clearance, Special as well as General Condition wise status report along with monitoring data for the environmental parameters is enclosed for your kind perusal.

We assured 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.

With warm Regards,

Authorised Signatory

M/s. Orissa Metaliks Private Limited (UNIT-I)

1, Garstin Place, 'Orbit House', Room No-3B, Kolkata-700001

Tel : 91 33-22894255/ 56

Fax : 91 33-22894254

Mbl. No-07044070948

 **Compliance_ OMPL-I -DEC-2023.pdf**
8323K

Ref. OMPL-I/ENV COMPL / DEC-2023

Date: 30.11.2023

To,

- a) **Regional Office,
Ministry of Environment, Forests & Climate Change, Bhubaneswar
A/3 Chandrasekharpur,
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 (DECEMBER-2023) Compliance Report for Period April 2023 to September 2023 for Sponge iron plant (6 x 100 + 1 x 350 + 1 x 500 + 1 x 600 TPD)-7,80,000 TPA along with 83 MW Captive power plant (WHRB-52 MW + AFBC-6 MW + CFBC-25 MW) at Village Gokulpur, P.O. Shyamraipur, P.S. Kharagpur (Local) District West Medinipur, West Bengal.

Ref: - EC: letter no. J-11011/229/2007-I (A) dated 07.07.2021 and J-11011/227/2007-I (A) dated 12.6.2008, 10.12.2008, 12.02.2015, 06.01.2017, 30.08.2018 & 26.12.2019

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With reference to the above, we are hereby submitting the six monthly compliance reports for period from April 2023 to September 2023 of EC no.- **J-11011/229/2007-I (A)** dated 07.07.2021 and EC No- **J-11011/227/2007-I(A) dated 12.6.2008, 10.12.2008, 12.02.2015, 06.01.2017, 30.08.2018 & 26.12.2019** for Sponge iron plant (6 x 100 + 1 x 350 + 1 x 500 + 1 x 600 TPD)-7,80,000 TPA along with 83 MW Captive power plant (WHRB-52 MW + AFBC-6 MW + CFBC-25 MW) at Village Gokulpur, P.O. Shyamraipur, P.S. Kharagpur (Local) District West Medinipur, West Bengal being operated by name of **M/s Orissa Metaliks Private Limited (Unit-I)**.

As per Environment Clearance, Special as well as General Condition wise status report along with monitoring data for the environmental parameters is enclosed for your kind perusal.

We assured 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,

For M/s Orissa Metaliks Private Limited (Unit-I)

Authorized Signatory

C.C:-

1. **The Member Secretary, West Bengal Pollution Control Board, Paribesh Bhawan, 10A Block – LA, Sector – III, Kolkata – 700 91**
2. **Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhawan, CGO Complex, Lodi Road New Delhi - 110 003**

Enclosures: -

1. Compliance Report for EC
2. Copy of Ambient Air Monitoring Report as Annexure-I.
3. Data of OCEMS connected with major stacks as Annexure-II.
4. Stack Monitoring report by WBPCB as Annexure-III.
5. Copy of Fugitive Emission Report as Annexure-IV.
6. TCLP test of Dolochar as Annexure-V.
7. Green Belt Development Detail as Annexure-VI.
8. Six Month CAAQMS report from all the three stations as Annexure-VII.
9. Effluent & Ground water sampling Report is enclosed as Annexure-VIII.
10. Copy of Ambient & Work Noise Monitoring Report Annexure-IX.
11. OHS Record as Annexure -X.

SIX MONTHLY COMPLIANCE
REPORT
(DECEMBER-2023)
FOR

Project Name- Sponge Iron plant (6 x 100 + 1 x 350 + 1 x 500 + 1 x 600 TPD)-7,80,000 TPA along with 83 MW Captive power plant (WHRB-52 MW + AFBC-6 MW + CFBC-25 MW) operated by name of M/s Orissa Metaliks Private Limited (Unit-I)

**E.C. NO. - J-11011/227/2007-I (A) dated:
12.6.2008, 10.12.2008, 12.02.2015,
06.01.2017, 30.08.2018 & 26.12.2019
&**

**E.C. NO.- J-11011/229/2007-I (A) dated
07.07.2021**

**Location: - Village-Gokulpur, P.O-Shyamraipur,
District-Paschim Midnapore (W.B.)**



M/s ORISSA METALIKS PRIVATE LIMITED

**1, GRASTIN PLACE, ORBIT HOUSE
3rd FLOOR, ROOM NO -3B KOLKATA – 700 001
WEST BENGAL**

Phone No.-033 – 22438518

Email id-orissametalikspvtltd@gmail.com

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

| | |
|----------------------------------------|-------------------------------|
| Proposal No | IA/WB/IND/188930/2020 |
| Compliance ID | 26339241 |
| Compliance Number(For Tracking) | EC/M/COMPLIANCE/26339241/2023 |
| 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/188930/2020 | Category | Industrial Projects - 1 |
| Proposal Name | Sponge iron plant (6 x 100 + 1 x 350 + 1 x 500 + 1 x 600 TPD)-7,80,000 TPA along with 83 MW Captive power plant (WHRB-52 MW + AFBC-6 MW + CFBC-25 MW) at Village Gokulpur, P.O. Shyamraipur, P.S. Kharagpur (Local) District West Medinipur, West Bengal | | |
| Plot / Survey/ Khasra No. Sub-District(s) | | Village(s) | |
| State | WEST BENGAL | District | MEDINIPUR?WEST |
| MoEF File No | J-11011/229/2007-IA.II(I) | Name of the Entity/ Corporate Office | Orissa Metaliks Private Limited (Unit-I) |
| 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 April 2023 to September 2023 for Sponge iron plant (6 x 100 + 1 x 350 + 1 x 500 + 1 x 600 TPD)-7,80,000 TPA along with 83 MW Captive power plant (WHRB-52 MW + AFBC-6 MW + CFBC-25 MW) at Village Gokulpur, P.O. Shyamraipur, P.S. Kharagpur (Local) District West Medinipur, West Bengal | | |

Details of Production and Project Area

Date of Commencement of Project/Activity
14-05-2014

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

| | | |
|--------------|--------|--------|
| Private | 16.187 | 16.187 |
| Revenue Land | 0 | 0 |
| Forest | 0 | 0 |
| Others | 0 | 0 |
| Total | 16.187 | 16.187 |

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 | SPONGE IRON | Tons per Annum (TPA) | 780000 | 780000 | CO113621 | 30-11-2026 | 778163.56 |
| 2 | CPTIVE POWER PLANT (WHRB) | MW | 52 | 52 | CO113621 | 30-11-2026 | --- |
| 3 | CPTIVE POWER PLANT (AFBC) | MW | 06 | 06 | CO113621 | 30-11-2026 | --- |
| 4 | CPTIVE POWER PLANT (CFBC) | MW | 25 | 25 | CO113621 | 30-11-2026 | --- |

Conditions

Specific Conditions

| Sr.No. | Condition Type | Condition Details | Status of Compliance,Remarks/Reason and Supporting Documents | |
|--------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | AIR QUALITY MONITORING AND PRESERVATION | Efforts shall be made to reduce RSPM levels in the ambient air and a time bound action plan shall be submitted. Online stack Monitoring facilities for all stacks should be provided and sufficient air pollution control devices shall be provided to keep the emission level below prevailing standards. Data on Ambient air quality and stack emission should be regularly submitted to the ministry including regional office at Bhubaneswar, CPCB and W.B pollution control board once in six months | PPs Submission | Adequate Measures have been taken by management for reducing the RSPM levels in the ambient air like. 1. Fixed water sprinklers and water guns are provided at the potential internal roads and raw materials handling areas. 2. One number of Mobile water sprinklers tanker and one number of movable water mist cannon have been engaged for regular water sprinkling in the haul roads of construction areas for control of fugitive dust emission. 3. 10 nos. water sprinkler/ water gun along the roadside covering 0.5 km have been installed to reduce fugitive emission. 4. Dedicated 01 no street swiping machine is being used and Frequency of Mechanical Street sweeping machine with vacuum cleaning has been increased (from 2 times a days to 04 times a day). 5. Pneumatic APC dust handling system is in place. 6. All conveyor belts, vibrating screens and transfer points are covered with sheets for preventing the fugitive emissions. Management of OMPL has installed |

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|---|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | <p>OCEMS in all the major stacks as per CPCB guide line and data is being transferred to CPCB central Server. Existing DRI (6 x 100 + 1 x 350 + 1 x 500+ 1 x 600 TPD), CFBC-25 MW and AFBC-6 MW are equipped with ESP, bag filters, and cyclone. All ESP & bag houses are design to meet the standard below prescribed limit. 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, 03 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 server Regular reports of Monitoring and compliance are submitted to Ministry at regional office, Bhubaneswar & IRO, MoEFCC, Kolkata Being Complied Attachment: Click to View</p> | |
| | | | <p>PPs Submission</p> | <p>Ambient Air Quality (AAQ) are monitored at three locations viz., Near Plant Main Gate, Mahespur Village and Mathurakismat Village by third party monitoring agency M/s. Greenvision, West Bengal which is NABL/ WBPCB accredited laboratory has done the analysis. Latest Ambient Air Quality Monitoring Analysis reports carried by NABL/MoEF accredited lab in month of September 2023 are attached Being Complied Attachment: Click to View</p> |
| 2 | <p>AIR QUALITY MONITORING AND PRESERVATION</p> | <p>As proposed, electrostatic precipitator (ESP) shall be provided to DRI kilns to control emissions within prevailing standards. The waste gases from the DRI kiln shall be passed through dust particles and after burning chamber (ABC). The hot gases from ABC shall be taken to gas cleaning plant to burn the combustibles and cleaned in ESP.</p> | <p>PPs Submission</p> | <p>Existing Sponge Iron Unit having capacity 7,80,000 TPA (6 X 100 TPD, 1 X 350 TPD, 1 X600 TPD & 1 X 500 TPD capacity base DRI units) having 9 nos. of ESP?s with 6 nos. of 10 TPH, 1 no of 38 TPH capacities & 02 Nos. 60 TPH Waste Heat Recovery Boilers (WHRB). ESPs of adequate capacity have been provided at 6 MW AFBC & 25 MW CFBC Boilers & all the DRI Kilns. All ESP & bag houses are design to meet the standard below prescribed limit. Stack monitoring is carried out on regular basis by W.B.P.C.B/ NABL/ MoEF authorized laboratories. Latest Analysis report is attached Being Complied Attachment: Click to View</p> |

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| 3 | AIR QUALITY MONITORING AND PRESERVATION | Bag filters shall be provided at the transfer points to control fugitive emissions. Dust suppression system shall be provided to control dust from raw material handling and storage area in DRI plant. The water shall be sprayed in the after burning Chamber. | PPs Submission | Dust extraction system including Dedusting System and pulse jet bag filters is provided stock house, Product house, Separation house, and at the transfer points to control fugitive emissions and dust suppression system is provided to control dust from raw material handling and storage area. Being Complied Attachment: Click to View |
| 4 | AIR QUALITY MONITORING AND PRESERVATION | Gaseous emission levels including secondary fugitive emissions form all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored guidelines/Code of Practice issued by the CPCB shall be followed. | PPs Submission | Fugitive Emissions have been monitored at DRI Plant Area, CPP Area, Near Fly Ash Silo Area, Product House & Truck Parking Area by third party monitoring agency M/s. Greenvision, West Bengal which is NABL/ WBPCB accredited laboratory has done the analysis. The latest fugitive emission analysis report carried in month of September 2023 are attached Being Complied Attachment: Click to View |
| | | | PPs Submission | Inhibitory measures been taken by project proponent to reduce fugitive emissions from all the vulnerable sources like: 1. Fixed water sprinklers and water guns are provided at the potential internal roads and raw materials handling areas. 2. One number of Mobile water sprinklers tanker and one number of movable water mist cannon have been engaged for regular water sprinkling in the haul roads of construction areas for control of fugitive dust emission. 3. 10 nos. water sprinkler/ water gun along the roadside covering 0.5 km have been installed to reduce fugitive emission. 4. Dedicated 01 no street swiping machine is being used and Frequency of Mechanical Street sweeping machine with vacuum cleaning has been increased (from 2 times a days to 04 times a day). 5. Pneumatic APC dust handling system is in place. 6. All conveyor belts, vibrating screens and transfer points are covered with sheets for preventing the fugitive emissions. 7. Dry fog dust suppression system is installed at Fly ash silo area to reduce fugitive emission. Being Complied Attachment: NA |
| 5 | WATER QUALITY MONITORING | 2050 KLD water is required for 780,000 TPA Sponge iron plant | PPs Submission | OMPL has already obtained adequate ground water extraction permission from State Water Investigation |

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|---|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | AND PRESERVATION | (6 x 100 + 1 x 350 + 1 x 500 + 1 x 600 TPD)-7,80,000 TPA along with 83 MW captive power plant (WHRB ? 52 MW + AFBC ? 6 MW + CFBC-25 MW) and it will be sourced from Bore well , Rainwater Harvesting pond and surface water (Kansabati river). Zero effluent discharge shall be strictly followed and no wastewater discharged outside the premises. | | Department (SWID) West Bengal, for ground water & surface water from Kansabati River. The present makeup water requirement in DRI & CPP 2050 KLD. The plant has been designed as ? Zero ?effluent discharged concept. Primary ETP plant is installed in plant and CPP blow down is used in DRI plant. No waste water is discharged outside the premises. Water is recycled and reused for dust suppression and green belt development. Online web camera is installed at potential discharge outlet to ensure no water is discharged outside plant premises. Being Complied Attachment: NA |
| 6 | WATER QUALITY MONITORING AND PRESERVATION | 2050 KLD water is required and it is/will be sourced from Bore well, Rainwater Harvesting pond & surface water (Kansabati river) | PPs Submission | The detail is already discussed in point no-v. Being Complied Attachment: NA |
| 7 | WASTE MANAGEMENT | All the char from DRI plant shall be utilized in AFBC boiler of power plant and no char shall be disposed of anywhere else. All the other solid waste is including broken refractory mass shall be-properly disposed off in environment friendly manner. | PPs Submission | ? OMPL-I is using imported/ indigenous coal having high GCV. As imported coal, GCV value is higher than the Indian Coal and Ash content is much lower in compare to Indian coal. Hence, Dolochar (by-product of Coal base DRI Process) is also comparatively higher calorific value and reused in kiln feed with coal fines to reduce the coal consumptions to enhance the generation of waste heat for producing the captive power. ? OMPL-I are operating 30 TPH capacity AFBC boilers and producing 6 MW power for captive uses and AFBC boiler designed is on the basis of char and coal ratio (50: 50). Apart from that 100 TPH capacity CFBC boilers is also in operation and producing 25 MW power for captive uses and CFBC boiler designed is on the basis of char and coal ratio (70: 30). ? Kiln accretion/ broken refractory mass is being used in associate company Sinter Plant, for Cement Manufacturing, land levelling. Being Complied Attachment: NA |
| 8 | WASTE MANAGEMENT | Coal and coke fines shall be recycled and reused in the process. Iron ore fluxes, mill scale etc. shall be recycled to sinter plant to produce sinter. Waste oil shall be sold | PPs Submission | ? Coal and coke fines are used in DRI process, AFBC base & CFBC base CPP for reducing the fuel consumption. ? Used oils are industrial lubricating oils are stored in closed barrels with appropriate seal and stored in a designated HW Facility and is being sold to authorized vendor. ? |

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| | | to authorised recyclers/reprocesses. | | Contaminated cotton and wiping clothes collected from all units is sent to Common Hazardous Waste Treatment, Storage and Disposal Facility (CHWTSDF). Being Complied Attachment: NA |
| 9 | WASTE MANAGEMENT | A time bound action plan shall be submitted to reduce solid waste, its proper utilisation and disposal. | PPs Submission | Leachate Analysis Report of Dolochar is attached Being Complied Attachment: Click to View |
| | | | PPs Submission | Because of use of better quality of raw material and process optimization there is a reduction in solid waste generation. A time bound action plan to reduce solid waste, its proper utilisation and disposal are as follows: Being Complied Attachment: NA |
| 10 | WASTE MANAGEMENT | All the fly ash be utilized as per Fly Ash Notification, 1999 as amended in 2003. | PPs Submission | 60-70 % of the Fly ash is being supplied to associate company (Rashmi Cement Limited at Jhargram & Bansal Cement Private Limited at Kharagpur) for Cement manufacturing purpose. Balance 30-40 % is being used for brick making. Being Complied Attachment: NA |
| 11 | GREENBELT | As proposed green belt shall be developed in 33% area within and around the plan premises as per the CPCB guidelines in consultation with DFO. | PPs Submission | Green belt with density of 2500 per hectare along and around boundary of the site towards the highway already started. In financial year 2023-24 from April 2023 to September 2023 around 500 saplings were planted for gap filling and the survival rate is 93.0%. The detail of green belt developed is enclosed Being Complied Attachment: Click to View |
| 12 | Statutory compliance | All the recommendation made in the charter on corporate Responsibility to Environment protection for the steel plants shall be implemented. | PPs Submission | CREP being complied in time bound frame. Being Complied Attachment: Click to View |
| 13 | ENERGY PRESERVATION MEASURES | DRI kiln should be provided with waste heat recovery boiler to make use of Flue gases | PPs Submission | The management of OMPL have already installed 6 X 100 TPD+ 1 x 350 TPD+ 1 x 600 TPD + 1 x 500 TPD |

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|----|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | generated during the process. | | capacity DRI base Rotary Kilns with 6 X 10 TPH + 1x 38 TPH + 2 x 60 TPH capacity Waste Heat Recovery Boilers for generating the maximum of 52 MW power for captive uses. Being Complied Attachment: NA |
| 14 | WASTE MANAGEMENT | All the char from DRI plant should be utilized in AFBC boiler of power plant and no char should be disposed anywhere. | PPs Submission | 6 MW capacity AFBC base captive power plant & 25 MW CFBC based CPP are in operation where Dolo-chars generated from DRI kilns are fully utilized for captive power generation. Being Complied Attachment: NA |
| 15 | MISCELLANEOUS | Setting of 780,000 TPA Sponge iron plant (6 x 100 + 1 x 350 + 1 x 350 + 1 x 500 + 1 x 600)-780,000 TPA along with 83 MW captive power plant 83 MW (WHRB-52 MW + AFBC-6 MW + CFBC-25 MW) at Mouza-Mathurakismat, J.L. No-114. | PPs Submission | Noted & Already Complied Being Complied Attachment: NA |
| 16 | AIR QUALITY MONITORING AND PRESERVATION | Adequate air pollution control measures as noted in Environment plan need be complied. | PPs Submission | ? Existing Sponge Iron Unit having capacity 7,80,000 TPA (6 X 100 TPD, 1 X 350 TPD, 1 X600 TPD & 1 X 500 TPD capacity base DRI units) having 9 nos. of ESP?s with 6 nos. of 10 TPH, 1 no of 38 TPH capacities & 02 Nos. 60 TPH Waste Heat Recovery Boilers (WHRB). ESPs of adequate capacity have been provided at 6 MW AFBC & 25 MW CFBC Boilers & all the DRI Kilns. ? All ESP & bag houses are design to meet the standard below prescribed limit. ? To control fugitive emission water mist fog canon system, water sprinklers, water guns, sweeper machine, movable water tanker is in place. Being Complied Attachment: NA |
| 17 | Statutory compliance | Surface water shall be taken from Kansai River. No ground water shall be abstracted after completion of Kansai river pipeline | PPs Submission | Company has got water withdrawal permission of surface water from State Water Investigation Directorate (SWID), West Bengal from Kansai River. Laying of pipeline from River Kansabati to the industry is completed and water extraction from 02 no. of bore wells on Kasai River bed is already started. Scheme for integrated water distribution networks between industrial units of the Group with respect to surface water drawal from |

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|----|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | | Kansabati river is already submitted to ministry. Being Complied Attachment: NA |
| 18 | AIR QUALITY MONITORING AND PRESERVATION | Emission level from Bag filter and ESP shall be 30 mg/Nm ³ . | PPs Submission | Being Complied Being Complied Attachment: NA |
| 19 | AIR QUALITY MONITORING AND PRESERVATION | PP committed for use of imported coal only. However, the committee felt that during the non-availability of imported coal, PP shall be using Indian coal. Therefore, the pollution control equipment shall be designed for use of Indian coal/higher pollution load. | PPs Submission | For the current operational plant, the installed pollution control equipments are also designed for using Indian coal. Being Complied Attachment: NA |
| 20 | Statutory compliance | Zero liquid discharge shall be adopted | PPs Submission | Our plant is designed as a Zero Discharge plant. Water is mainly used for cooling purpose. After evaporation loss the quantum of remaining water is sent to the cooling tower in order to reuse the water again. Blow down water from cooling tower is used for dust suppression & in sponge iron. No water is discharged outside the plant premises. Effluent generated from slag granulation is treated in primary ETP and is reused in process, for dust suppression & green belt development. The management has also installed Online OCEMS web camera (effluent) to ensure no waste water is being discharged outside plant premises. Being Complied Attachment: NA |
| 21 | WASTE MANAGEMENT | 100% waste utilization shall be followed. | PPs Submission | The char from DRI plants are being utilized in AFBC & CFBC boiler of power plant and no char is disposed of anywhere else. The solid waste utilization detail is as followed: Kiln Accretion-Used in Sinter Plant of associate company, Cement Manufacturing Char & Dolochar-Used in FBC Boiler Fly Ash-Used for bricks manufacturing and Cement Manufacturing Dust from APC Devices-Used in Sinter Plant of associate company and also for Brick Manufacturing Bottom Ash Road Construction & Land levelling |

| | | | | |
|----|-----------|-----------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | | Being Complied Attachment: NA |
| 22 | GREENBELT | Green belt shall cover 33% of the total area in the plant site. | PPs Submission | Green belt with density of 2500 per hectare along and around boundary of the site towards the highway already started. In financial year 2023-24 from April 2023 to September 2023 around 500 saplings of trees and the survival rate is 93.0%. Being Complied Attachment: NA |

General Conditions

| Sr.No. | Condition Heading | Condition Details | Status of Compliance,Remarks/Reason and Supporting Documents | |
|--------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | MISCELLANEOUS | The project authorities must strictly adhere to the stipulation made by the West Bengal State Pollution Control Board and the State Government. | PPs Submission | Adequate measure has been taken by management of OMPL-I for pollution control and complying with all condition issues by Central Pollution Control Board and State Pollution Control Board. Reports of Monitoring and compliance are submitted to WBPCB on regular basis. Being Complied Attachment: NA |
| 2 | MISCELLANEOUS | No further expansion or modifications in the plant shall be carried but without prior approval of the Ministry of Environment and Forests. | PPs Submission | In compliance to this point amendment and part transfer in EC No. J-11011/227/2007-I (A) dated: 12.6.2008, 10.12.2008, 12.02.2015, 06.01.2017, 30.08.2018 & 26.12.2019 obtained by ministry vide EC no. - J-11011/229/2007-I (A) dated 07.07.2021. Copy of the amended and part transfer EC is already submitted to regional office of ministry and SPCB with Six Monthly Compliance report (June-22) vide letter no-OMPL-I/ENV_COMPL/June-2022 dated 26.05.2022 Being Complied Attachment: NA |
| 3 | MISCELLANEOUS | The Gaseous emissions from various process units shall conform to the load/mass-based standards notified by this Ministry on 19th May, 1993 and standards prescribed from time to time. The State Board may specify more stringent | PPs Submission | All the necessary measures have been adopted by management of OMPL-I for preventing the gaseous emission on priority basis. The load mass-based standards for the financial year 2022-23 is calculated and submitted with environmental statement in prescribed format to |

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|---|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | standards for the relevant parameters keeping in view the nature of the industry and its size and location. | | WBPCB vide letter no. OMPL-I/ENV-Statement/2022-2023 dated 26.09.2023. Being Complied Attachment: NA |
| 4 | AIR QUALITY MONITORING AND PRESERVATION | At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM10, SO2, and NOx are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and the SPCB/CPCB once in six months. | PPs Submission | As stated in point no-I of specific condition, 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. Also 01 no manual AAQMS is installed at plant main gate. Data on ambient air quality and stack emission is regularly submitted to this Ministry including its Integrated Regional Office, Kolkata and the WBPCB & CPCB. Last report submitted with six monthly compliance report ? OMPL-I/ENV COMPL/December-2022 dated 19.11.2022. Being Complied Attachment: Click to View |
| 5 | WATER QUALITY MONITORING AND PRESERVATION | Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose. | PPs Submission | Plant is designed as Zero Discharge Plant. Primary ETP plant is installed in plant and CPP blow down is used in DRI plant. No waste water is discharged outside the premises. Water is recycled and reused for dust suppression and green belt development. Online OCEMS web camera (effluent) has been installed to ensure no waste water is being discharged outside plant premises. Being Complied Attachment: NA |
| | | | PPs Submission | M/s Greenvision, West Bengal which is NABL/ WBPCB/OSPCB accredited laboratory has done the analysis. The analysis report of Effluent, STP (inlet & outlet) & Ground water sampling Report is enclosed Being Complied Attachment: Click to View |

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| 6 | Noise Monitoring & Prevention | The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods. Silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and dBA (night-time). | PPs Submission | Ambient & Work Zone Noise Monitoring Analysis (inside the plant in different units) is done by MoEF&CC, New Delhi /NABL accredited Laboratories. Being Complied Attachment: NA |
| | | | PPs Submission | Noise levels have been monitored at five locations viz. Near Plant Main Gate, Shyamraipur Village, Truck Parking Area Between DRI Plant Area, & Near CPP Area by third party monitoring agency M/s Greenvision, West Bengal which is NABL/ WBPCB accredited laboratory. The Ambient & work zone noise monitoring report is enclosed Being Complied Attachment: Click to View |
| 7 | Human Health Environment | Occupational health surveillance of then workers shall be done on a regular basis and records maintained as per the Factories Act. | PPs Submission | Occupational health surveillance of the workers is periodically accessed on a regular basis and records are being maintained as per The Factories Act. 1948. Company is ISO 45001:2018 certified and certificate is valid till 30-10-2023. Being Complied Attachment: Click to View |
| 8 | WATER QUALITY MONITORING AND PRESERVATION | The company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table. | PPs Submission | Occupational health surveillance of the workers is periodically accessed on a regular basis and records are being maintained as per The Factories Act. 1948. Company is ISO 45001:2018 certified and certificate is valid till 30-10-2023. Being Complied Attachment: NA |

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| 9 | MISCELLANEOUS | The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc. | PPs Submission | The project proponent is fully committed in socio economic development activities of the surrounding villages and CSR activities are being continuously done throughout the year. In financial year 2023-24, OMPL company has spent Rs. 33,66,00,000 under the head of CSR/CER. The recent CSR/CER photograph are as: Being Complied Attachment: Click to View |
| 10 | MISCELLANEOUS | Requisite amount shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Bhubaneswar. The funds so provided shall not be diverted for any other purpose. | PPs Submission | Rs. 25.0 crore and Rs.2.55 crores is earmarked towards capital cost and annual recurring cost for implementing the environmental protection measures. Being Complied Attachment: Click to View |
| 11 | MISCELLANEOUS | A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter also be put on the web site of the company by the proponent. | PPs Submission | Copies of EC dated 07.07.2021 w.r.t part transfer and amendment were submitted to DM, Paschim Medinipur vide letter dated 20.07.2021 and EC copy also uploaded on the website of the company http://orissametaliks.com/qehs.html . Copy of intimation letter is already submitted to regional office of ministry and SPCB with Six Monthly Compliance report (DEC-21) vide letter no-OMPL-I/ENV_COMPL/December-2021 dated 01.12.2021 Complied Attachment: NA |
| 12 | 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 shall update the same periodically. It shall simultaneously be sent to | PPs Submission | Monitoring of criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters is done by NABL/ MOEF accredited laboratory. Emission levels of pollutants of different units is displayed on board maintained as per CPCB |

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| | | <p>the Regional Office of the MOEF at Bhubaneswar. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely PM10, SO2, NOx) ambient levels as well as well as stack emissions) or critical sectoral parameters indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.</p> | | <p>format issued vide File no-B-29016 NGT/C-10/2020/ WM II/Div./ Dated 20th January 2020 outside the main gate of the plant for disclosure to the public and also uploaded on the website of the company https://www.rashmigroup.com/ehs/ . Electronic display board is installed at plant main gate and online stack emission data and CAAQMS data is also being displayed. Being Complied Attachment: NA</p> |
| 13 | MISCELLANEOUS | <p>The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environment conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bhubaneswar/CPCB/SPCB shall monitor the stipulated conditions.</p> | PPs Submission | <p>Regular reports of Monitoring and compliance are submitted to Ministry at regional office. The details of submission are enclosed here with. Being Complied Attachment: NA</p> |
| 14 | MISCELLANEOUS | <p>The environment statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MOEF at Bhubaneswar by e-mail.</p> | PPs Submission | <p>All the necessary measures have been adopted by management of OMPL for preventing the gaseous emission on priority basis. The environmental statement in prescribed format for the financial year 2022-23 is submitted to WBPCB vide letter no. OMPL-I/ENV_Statement/2022-2023 dated 26.09.2023 and also uploaded on the website of the company http://orissametaliks.com/qehs.html. Being Complied Attachment: NA</p> |
| 15 | MISCELLANEOUS | <p>The project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in. This shall</p> | PPs Submission | <p>Advertisement within seven days from the date of issue of the Environment clearance amendment & part transfer in two local newspapers that are widely circulated in the region are made. The details are: ? Aajkal (Bengali Version) dated 10.07.2021 ? Echo of India (English version) dated 10.07.2021 Copy of the</p> |

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| | | be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwards to the Regional office at Bhubaneswar. | | advertisement is already submitted to regional office of ministry and SPCB with Six Monthly Compliance report (DEC-21) vide letter no-OMPL-I/ENV_COMPL/December-2021 dated 01.12.2021 Complied Attachment: NA |
| 16 | MISCELLANEOUS | Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work. | PPs Submission | Private Company, no finance is needed from outside. Complied Attachment: NA |
| 17 | MISCELLANEOUS | The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory. | PPs Submission | Noted Complied Attachment: NA |
| 18 | MISCELLANEOUS | The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions. | PPs Submission | Noted Agreed to Comply Attachment: NA |
| 19 | MISCELLANEOUS | Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 11 of the National Green Tribunal Act, 1977. | PPs Submission | Noted Complied Attachment: NA |
| 20 | MISCELLANEOUS | The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and Rules | PPs Submission | Noted Complied Attachment: NA |
| 21 | MISCELLANEOUS | Sensitization of project proponents on implementation of ban on Single Use Plastic (SUP). | PPs Submission | In order to create awareness among the employees about the harm/ impact of Single Use Plastic on environment as well as human health, number of banners and flex has been displayed at suitable |

place like work place, canteen & parking area etc.
Being Complied
Attachment: NA

Document Upload

Last Site Visit Report (if available) NA
Additional Attachment (if any)

[Click to View](#)

Additional Remarks (if any)

Last Site Visit Report Date (if available) 02-02-2021

- I '[Orissa Metaliks Private Limited \(Unit-I\)](#)' 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

Name of the Project: -

Sponge Iron plant 7,80,000 TPA (6 x 100 + 1 x 350 + 1 x 500 + 1 x 600)-780,000 TPA along with 83 MW captive power plant 83 MW (WHRB-52 MW + AFBC-6 MW + CFBC- 25 MW)at village Gokulpur, P.O Shyamraipur, P.S Kharagpur (Local) District West Medinipur, West Bengal.



Clearance Letter/s No. and date: -

EC No. - J-11011/229/2007-I (A) dated 07.07.2021

Covering stipulated condition of earlier EC No. J-11011/227/2007-I (A) dated: 12.6.2008, 10.12.2008, 12.02.2015, 06.01.2017, 30.08.2018 & 26.12.2019

Period of Compliance Report: -

April 2023 to September 2023

| A. | Specific Conditions | COMPLIANCE STATUS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| i) | <p>Efforts shall be made to reduce RSPM levels in the ambient air and a time bound action plan shall be submitted. Online stack Monitoring facilities for all stacks should be provided and sufficient air pollution control devices shall be provided to keep the emission level below prevailing standards. Data on Ambient air quality and stack emission should be regularly submitted to the ministry including regional office at Bhubaneswar, CPCB and W.B pollution control board once in six months.</p> | <p>Been Complied</p> <p>Adequate Measures have been taken by management for reducing the RSPM levels in the ambient air like.</p> <ol style="list-style-type: none">1. Fixed water sprinklers and water guns are provided at the potential internal roads and raw materials handling areas.2. One number of Mobile water sprinklers tanker and one number of movable water mist cannon have been engaged for regular water sprinkling in the haul roads of construction areas for control of fugitive dust emission.3. 10 nos. water sprinkler/ water gun along the roadside covering 0.5 km have been installed to reduce fugitive emission.4. Dedicated 01 no street swiping machine is being used and Frequency of Mechanical Street sweeping machine with vacuum cleaning has been increased (from 2 times a days to 04 times a day).5. Pneumatic APC dust handling system is in place.6. All conveyor belts, vibrating screens and transfer points are covered with sheets for preventing the fugitive emissions. <div data-bbox="773 1507 1154 1801"></div> <p data-bbox="850 1835 1078 1864"><u>Mobile Mist Canon</u></p> <div data-bbox="1166 1507 1531 1801"></div> <p data-bbox="1247 1835 1455 1864"><u>Fixed Mist Canon</u></p> |





Water Tanker



Road Sweeping Vehicle



Water Sprinkler

Management of OMPL has installed OCEMS in all the major stacks as per CPCB guide line and data is being transferred to CPCB central Server.

Existing DRI (6 x 100 + 1 x 350 + 1 x 500+ 1 x 600 TPD), CFBC-25 MW and AFBC-6 MW are equipped with ESP, bag filters, and cyclone. All ESP & bag houses are design to meet the standard below prescribed limit.

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, 03 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 server

Regular reports of Monitoring and compliance are submitted to Ministry at regional office, Bhubaneswar & IRO, MoEFCC, Kolkata. The details of submission are enclosed here with.

| Sr. No | Year | Period Up To | Submission Date |
|--------|-----------|---------------------------|-----------------|
| 1 | 2016-2017 | 1 st Dec 2016 | 26.11.2016 |
| | | 1 st June 2017 | 16.05.2017 |
| 2 | 2017-2018 | 1 st Dec 2017 | 01.12.2017 |
| | | 1 st June 2018 | 01.06.2018 |
| 3 | 2018-2019 | 1 st Dec 2018 | 28.11.2018 |
| | | 1 st June 2019 | 23.05.2019 |
| 4 | 2019-2020 | 1 st Dec 2019 | 14.11.2019 |
| | | 1 st June 2020 | 29.05.2020 |
| 5 | 2020-2021 | 1 st Dec 2020 | 30.11.2020 |
| | | 1 st June 2021 | 31.05.2021 |
| 6 | 2021- | 1 st Dec 2021 | 01.12.2021 |



| | | | |
|---|-----------|---------------------------|------------|
| | 2022 | 1 st June 2022 | 26.05.2022 |
| 7 | 2022-2023 | 1 st Dec 2022 | 19.11.2022 |
| | | 1 st June 2023 | 25.05.2023 |

Ambient Air Quality (AAQ) are monitored at three locations viz., Near Plant Main Gate, Mahespur Village and Mathurakismat Village by third party monitoring agency M/s. Greenvision, West Bengal which is NABL/ WBPCB accredited laboratory has done the analysis. As per monitoring reports the emission levels are as follows:

| Parameter | Near Plant Main Gate | Mahespur Village | Mathurakismat Village |
|----------------------------------------|----------------------|------------------|-----------------------|
| PM ₁₀ (µg/m ³) | 70.43 | 64.87 | 68.16 |
| PM _{2.5} (µg/m ³) | 37.07 | 33.74 | 35.83 |
| SO ₂ (µg/m ³) | 9.52 | 8.79 | 8.78 |
| NO ₂ (µg/m ³) | 39.44 | 38.83 | 39.44 |
| CO (mg/m ³) | 0.326 | 0.185 | 0.208 |

Latest Ambient Air Quality Monitoring Analysis reports carried by NABL/MoEF accredited lab are attached in as **Annexure No. - I** for your ready reference.

Six monthly data of OCEMS is enclosed as **Annexure-II**.

ii) As proposed, electrostatic precipitator (ESP) shall be provided to DRI kilns to control emissions within prevailing standards. The waste gases from the DRI kiln shall be passed through dust particles and after burning chamber (ABC). The hot gases from ABC shall be taken to gas cleaning plant to burn the combustibles and cleaned in ESP.

Being Complied

Existing Sponge Iron Unit having capacity 7,80,000 TPA (6 X 100 TPD, 1 X 350 TPD, 1 X 600 TPD & 1 X 500 TPD capacity base DRI units) having 9 nos. of ESP's with 6 nos. of 10 TPH, 1 no of 38 TPH capacities & 02 Nos. 60 TPH Waste Heat Recovery Boilers (WHRB). ESPs of adequate capacity have been provided at 6 MW AFBC & 25 MW CFBC Boilers & all the DRI Kilns.

All ESP & bag houses are design to meet the standard below prescribed limit. Stack monitoring is carried out on regular basis by W.B.P.C.B/ NABL/ MoEF authorized laboratories. Latest Analysis report is attached as **Annexure - III**.

iii) Bag filters shall be provided at the transfer points to control fugitive emissions. Dust suppression system shall be provided to control dust from raw material handling and storage area in DRI plant. The water shall be sprayed in the after burning Chamber.

Being Complied

Dust extraction system including Dedusting System and pulse jet bag filters is provided stock house, Product house, Separation house, and at the transfer points to control fugitive emissions and dust suppression system is provided to control dust from raw material handling and storage area.



| iv) | <p>Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored guidelines/Code of Practice issued by the CPCB shall be followed.</p> | <p style="text-align: center;">Being Complied</p> <p>Inhibitory measures been taken by project proponent to reduce fugitive emissions from all the vulnerable sources like:</p> <ol style="list-style-type: none"> 1. Fixed water sprinklers and water guns are provided at the potential internal roads and raw materials handling areas. 2. One number of Mobile water sprinklers tanker and one number of movable water mist cannon have been engaged for regular water sprinkling in the haul roads of construction areas for control of fugitive dust emission. 3. 10 nos. water sprinkler/ water gun along the roadside covering 0.5 km have been installed to reduce fugitive emission. 4. Dedicated 01 no street swiping machine is being used and Frequency of Mechanical Street sweeping machine with vacuum cleaning has been increased (from 2 times a days to 04 times a day). 5. Pneumatic APC dust handling system is in place. 6. All conveyor belts, vibrating screens and transfer points are covered with sheets for preventing the fugitive emissions. 7. Dry fog dust suppression system is installed at Fly ash silo area to reduce fugitive emission. <p>Fugitive Emissions have been monitored at DRI Plant Area, CPP Area, Near Fly Ash Silo Area, Product House & Truck Parking Area by third party monitoring agency M/s. Greenvision, West Bengal which is NABL/ WBPCB accredited laboratory has done the analysis. As per monitoring reports for month of September 2023 the emission levels are as follows:</p> <table border="1" data-bbox="763 1291 1534 1438"> <thead> <tr> <th>Parameter</th> <th>DRI Plant Area</th> <th>CPP Area</th> <th>Product House</th> <th>Near Fly Ash Silo</th> <th>Truck Parking Area</th> </tr> </thead> <tbody> <tr> <td>TSPM ($\mu\text{g}/\text{m}^3$)</td> <td>589.48</td> <td>527.32</td> <td>660.81</td> <td>574.23</td> <td>570.19</td> </tr> </tbody> </table> <p>The latest fugitive emission analysis report is enclosed as Annexure No.-IV.</p> | Parameter | DRI Plant Area | CPP Area | Product House | Near Fly Ash Silo | Truck Parking Area | TSPM ($\mu\text{g}/\text{m}^3$) | 589.48 | 527.32 | 660.81 | 574.23 | 570.19 | | |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-------------------|--------------------|---------------|-------------------|----------------------------------------------------|------------------------------------|---------------------------|------------|-----------|-----------|--------|----|---------|
| Parameter | DRI Plant Area | CPP Area | Product House | Near Fly Ash Silo | Truck Parking Area | | | | | | | | | | | |
| TSPM ($\mu\text{g}/\text{m}^3$) | 589.48 | 527.32 | 660.81 | 574.23 | 570.19 | | | | | | | | | | | |
| v) | <p>2050 KLD water is required for 780,000 TPA Sponge iron plant (6 x 100 + 1 x 350 + 1 x 500 + 1 x 600 TPD)-7,80,000 TPA along with 83 MW captive power plant (WHRB - 52 MW + AFBC - 6 MW + CFBC-25 MW) and it will be sourced from Bore well, Rainwater Harvesting pond and surface water (Kansabati river).</p> <p>Zero effluent discharge shall be strictly followed and no wastewater discharged outside the premises.</p> | <p>OMPL has already obtained adequate ground water extraction permission from State Water Investigation Department (SWID) West Bengal, for ground water & surface water from Kansabati River. The present makeup water requirement in DRI & CPP 2050 KLD.</p> <table border="1" data-bbox="763 1669 1534 1890"> <thead> <tr> <th rowspan="2">Water Requirement for EC awarded Project</th> <th colspan="4">Source of Water</th> </tr> <tr> <th>Groundwater (after obtaining permission from SWID)</th> <th>Surface waste from Kansabati River</th> <th>Nala/ Treated Waste Water</th> <th>R.W.H Pond</th> </tr> </thead> <tbody> <tr> <td>2,050 KLD</td> <td>1,911 KLD</td> <td></td> <td>**</td> <td>139 KLD</td> </tr> </tbody> </table> | Water Requirement for EC awarded Project | Source of Water | | | | Groundwater (after obtaining permission from SWID) | Surface waste from Kansabati River | Nala/ Treated Waste Water | R.W.H Pond | 2,050 KLD | 1,911 KLD | | ** | 139 KLD |
| Water Requirement for EC awarded Project | Source of Water | | | | | | | | | | | | | | | |
| | Groundwater (after obtaining permission from SWID) | Surface waste from Kansabati River | Nala/ Treated Waste Water | R.W.H Pond | | | | | | | | | | | | |
| 2,050 KLD | 1,911 KLD | | ** | 139 KLD | | | | | | | | | | | | |



| | | The plant has been designed as 'Zero 'effluent discharged concept. Primary ETP plant is installed in plant and CPP blow down is used in DRI plant. No waste water is discharged outside the premises. Water is recycled and reused for dust suppression and green belt development. Online web camera is installed at potential discharge outlet to ensure no water is discharged outside plant premises. | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------|----------------|----------------|---|----------------|-------|----|---|-----------------|----------|----|---|---------|--------|----|---|-----------------------|----------|----|---|------------|----------|----|
| vi) | 2050 KLD water is required and it is/will be sourced from Bore well, Rainwater Harvesting pond & surface water (Kansabati river) | Being complied. The detail is already discussed in point no-v. | | | | | | | | | | | | | | | | | | | | | | | | |
| vii) | All the char from DRI plant shall be utilized in AFBC boiler of power plant and no char shall be disposed of anywhere else. All the other solid waste is including broken refractory mass shall be properly disposed off in environment friendly manner. | Being Complied <ul style="list-style-type: none"> • OMPL-I is using imported/ indigenous coal having high GCV. As imported coal, GCV value is higher than the Indian Coal and Ash content is much lower in compare to Indian coal. Hence, Dolochar (by-product of Coal base DRI Process) is also comparatively higher calorific value and reused in kiln feed with coal fines to reduce the coal consumptions to enhance the generation of waste heat for producing the captive power. • OMPL-I are operating 30 TPH capacity AFBC boilers and producing 6 MW power for captive uses and AFBC boiler designed is on the basis of char and coal ratio (50: 50). Apart from that 100 TPH capacity CFBC boilers is also in operation and producing 25 MW power for captive uses and CFBC boiler designed is on the basis of char and coal ratio (70: 30). • Kiln accretion/ broken refractory mass is being used in associate company Sinter Plant, for Cement Manufacturing, land levelling. | | | | | | | | | | | | | | | | | | | | | | | | |
| viii) | Coal and coke fines shall be recycled and reused in the process. Iron ore fluxes, mill scale etc. shall be recycled to sinter plant to produce sinter. Waste oil shall be sold to authorised recyclers/reprocesses. | Being Complied <ul style="list-style-type: none"> • Coal and coke fines are used in DRI process, AFBC base & CFBC base CPP for reducing the fuel consumption. • Used oils are industrial lubricating oils are stored in closed barrels with appropriate seal and stored in a designated HW Facility and is being sold to authorized vendor. • Contaminated cotton and wiping clothes collected from all units is sent to Common Hazardous Waste Treatment, Storage and Disposal Facility (CHWTSDF). | | | | | | | | | | | | | | | | | | | | | | | | |
| ix) | A time bound action plan shall be submitted to reduce solid waste, its proper utilisation and disposal. | Being Complied Because of use of better quality of raw material and process optimization there is a reduction in solid waste generation. A time bound action plan to reduce solid waste, its proper utilization and disposal are as follows: <table border="1" data-bbox="776 1619 1518 1843"> <thead> <tr> <th>S. No.</th> <th>Particulars</th> <th>Year (2023-24)</th> <th>Year (2024-25)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Kiln Accretion</td> <td>6,240</td> <td>--</td> </tr> <tr> <td>2</td> <td>Char & Dolochar</td> <td>1,48,000</td> <td>--</td> </tr> <tr> <td>3</td> <td>Fly Ash</td> <td>84,000</td> <td>--</td> </tr> <tr> <td>4</td> <td>Dust from APC Devices</td> <td>1,09,200</td> <td>--</td> </tr> <tr> <td>5</td> <td>Bottom Ash</td> <td>1,52,000</td> <td>--</td> </tr> </tbody> </table> | S. No. | Particulars | Year (2023-24) | Year (2024-25) | 1 | Kiln Accretion | 6,240 | -- | 2 | Char & Dolochar | 1,48,000 | -- | 3 | Fly Ash | 84,000 | -- | 4 | Dust from APC Devices | 1,09,200 | -- | 5 | Bottom Ash | 1,52,000 | -- |
| S. No. | Particulars | Year (2023-24) | Year (2024-25) | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Kiln Accretion | 6,240 | -- | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Char & Dolochar | 1,48,000 | -- | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Fly Ash | 84,000 | -- | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Dust from APC Devices | 1,09,200 | -- | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Bottom Ash | 1,52,000 | -- | | | | | | | | | | | | | | | | | | | | | | | |



Leachate Analysis Report of Dolochar is enclosed as **Annexure-V.**

| | | |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| x) | All the fly ash be utilized as per Fly Ash Notification, 1999 as amended in 2003. | 60-70 % of the Fly ash is being supplied to associate company (Rashmi Cement Limited at Jhargram & Bansal Cement Private Limited at Kharagpur) for Cement manufacturing purpose. Balance 30-40 % is being used for brick making. |
| xi) | As proposed green belt shall be developed in 33% area within and around the plan premises as per the CPCB guidelines in consultation with DFO. | <p>Being Complied</p> <p>Green belt with density of 2500 per hectare along and around boundary of the site towards the highway already started. In financial year 2023-24 from April 2023 to September 2023 around 500 saplings were planted for gap filling and the survival rate is 93.0%. The detail of green belt developed is enclosed as Annexure-VI.</p>  |



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| xii) | All the recommendation made in the charter on corporate Responsibility to Environment protection for the steel plants shall be implemented. | CREP being complied in time bound frame. | | |
| | | Sl. No | Action points for Integrated Iron & Steel Industry | Action Plan |
| | | 1 | Coke Oven Plants | |
| | | A | To meet the parameters PLD (% leaking colours), PLL (% leaking lids), PLO (% leaking off take), of the notified standards under EPA within three years by December 2005). Industry will submit time bound action plan and PER Chart along with the Bank Guarantee for the implementation or the time. | Not applicable |
| | | B | To rebuild at least 40% of the coke oven batteries in next 10 years (by December 2012). | Not applicable |
| | | 2 | Steel Melting Shop Fugitive emissions - To reduce 30% by March 2004 and 100% by March 2008 (including installation of secondary Dedusting facilities). | Not applicable |
| | | 3 | Blast Furnace Direct inject of reducing agents by June 2013. | Not applicable |
| | | 4 | Solid Waste/Hazardous Waste Management | |
| | | A | Utilization of Steel/Melting shop (SMS)/Blast Furnace (BF) Slag as per the following schedule: • By 2004 - 70% • By 2006 - 80% and • By 2007 - 100% | Not applicable |
| | | Hazardous Wastes | | |
| B I | Charge of tar sludge/ETP sludge to Coke Oven by June 2003. | Not Applicable | | |
| B II | Inventorization of the Hazardous waste as per Hazardous Waste (M & H). Rules, 1989 as amended in 2000 and implementation of the Rules by Dec. 2003. (Tar sludge, acid sludge, waste Lubricating oil and type fuel falls in the category of | Inventorization completed. Coal tar, Waste oils and cotton/jute waste containing oil are sold to WBPCB authorized vendors/parties The annual return (FORM-IV) for the financial year (2022-2023) in prescribed format submitted on Online Consent Management & Monitoring System portal | | |



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| | | | Hazardous waste). | to WBPCB vides return no-3926410 dated 30.06.2023. |
| 5 | Water Conservation/Water Pollution | | | |
| | A | To reduce specific water consumption to 5 m ³ /t for long products and 8 m ³ /t for flat products by December 2005. | | The average water consumption is within the prescribed limit. |
| | B | To operate the Co-BP effluent treatment plant efficiently to achieve the notified effluent discharge standards. - by June 2003. | | Not Applicable |
| 6 | | Installation of Continuous stacks monitoring system & its calibration in major stacks and setting up of the online ambient air quality monitoring stations by June 2005. | | The company has Successfully installed online Stack monitoring system in all DRI & Power Plants. 04 Nos. CAAQMS & 01 no manual Ambient Monitoring System is installed for monitoring the ambient air quality covering 360 degree. |
| 7 | | To operate the existing pollution control equipment efficiently and to keep proper record of run hours, failure time and efficiency with immediate effect. Compliance report in this regard is submitted to CPCB/SPCB every three months. | | Compliance reported is being submitted to the WBPCB and quarterly monitoring of the stacks is being done by WBPCB. |
| 8 | | To implement the recommendations of Life Cycle Assessment (LCA) study sponsored by MoEF by December 2003. | | Being complied |
| 9 | | The industry will initiate the steps to adopt the following clean technologies measures to improve the performance of industry towards production, energy and environment. | | |
| | A | Energy recovery of top Blast Furnace (BF) gas. | | Not applicable |
| | B | Use of Tar - free runner linings | | Not applicable |
| | C | De- dusting of Cast house at tap holes, runners, skimmers ladle and charging points. | | Dry fog system is being installed at fly ash silo area. |
| | D | Suppression of fugitive emissions using nitrogen gas or other inert gas. | | Not Applicable |
| | E | To study the possibility of slag and fly ash transportation back to | | Not applicable |



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| | | | the abandoned mines, to the abandoned mines, to fill up the cavities through empty railway wagons while they return back to the mines and its implementation. | |
| | | F | Processing of the waste containing flux & ferrous wastes through waste recycling plant. | Maximum Generated Solid wastes are reused in different units such as coal fine used in Pellet plant of associate company, DRI fines in SMS and Dolochar used in AFBC & CFBC Boiler for Power Generation. |
| | | G | To implement rainwater harvesting | OMPL have 01 no rain water harvesting ponds of capacity 50,000 KL (approx.) in plant premises and harvested water is being used in dust suppression, green belt development etc. |
| | | H | Reduction Green House Gases by: | |
| | | I | Reduction in power consumption | Use of Phenolic water in ABC of DRI kiln resulting increase in enthalpy. |
| | | II | Use of by- products gases for power generation | The waste gas generated from DRI is being utilised in the power generation passing through Waste Heat Recovery Boiler (WHRE) feeding to 09 nos. water tube boiler which generates 52 MW power. |
| | | III | Promotion of Energy Optimisation technology Including energy/ audit | Not applicable |
| | | I | To set targets for Resource Conservation such as Raw material, energy and water consumption to match International Standards. | Management of OMPL has taken up eco- friendly (i. e. 3 R's, Reduce, Recycle & Reuse) philosophy for day-to-day plant operations, in this connection OMPL management team trying to reduce the unit wise water consumptions and reuse the water after physical treatment in the same unit |
| | | J | Up- gradation in the monitoring and analysis facilities for air and water pollution. Also, to impart | Upgradation in the monitoring and analysis facilities has already been done by installation of |



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| | | | <p>elaborate training to the manpower so that realistic data is obtained in the environmental monitoring laboratories.</p> | <p>Online CEMS at all major stacks. A separate Environment Management Cell is already in operational to manage all the environmental issues. The manpower entrusted for environmental monitoring has been imparted training on regular basis.</p> |
| | | <p>K</p> | <p>To Improve overall housekeeping.</p> | <p>Action taken by company for improvement of housekeeping and controlling emission are:</p> <ul style="list-style-type: none"> a) Dedicated 01 No water spraying tankers are in use. b) Frequency of Mechanical Street sweeping machine with vacuum cleaning has been increased from 02 times a days to 04 times a day. c) Dedicated 01 no. street swiping machine also in use in plant. d) 10 nos. water sprinkler/ water gun along the roadside covering 0.5 km have been installed to reduce fugitive emission. e) 01 no movable Water mist fog system has been installed and in used in order to reduce the fugitive dust. f) 50 nos. of water sprinklers inside the plant at emission prone area like DRI, Truck Parking, Internal Road, CPP area, Raw material stock yard etc. has been installed for effectively controlling the fugitive emission. g) Engaged more numbers of dedicated Housekeeping team |



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| | | | | <p>with proper training and equipment.</p> <p>h) Regular painting and cleaning / whitewashing of wall.</p> <p>i) Scraps are stored in proper demarcated area with proper marking.</p> <p>j) Hazardous wastes are stored in dedicated HZW store.</p> <p>k) Regular cleaning of drain systems pre monsoon is done.</p> <p>l) Concreting of internal road with proper drainage system to reduce vehicular emission.</p> <p>m) Trucks movement for transporting raw materials & solid waste in fully covered way to avoid dust pollution.</p> <p>n) Green belt with density of 2500 per hectare along and around the plant boundary is being developed.</p> |
| | | 10 | <p>Sponge Iron Plants Inventorization of sponge iron plants to be completed by SPCBs/CPCB by June 2003 and units will be asked to install proper air pollution control equipment by December 2003 to control primary and secondary emissions.</p> <p>As per rebuilding schedule submitted to CPCB/MoEF.</p> | <p>3 Field, 4 Field ESP, I.D. FAN, and WHRB are being installed in order to keep the pollution emission within prescribed limit.</p> |
| xiii) | DRI kiln should be provided with waste heat recovery boiler to make use of Flue gases generated during the process. | | | <p>Being Complied</p> <p>The management of OMPL have already installed 6 X 100 TPD+ 1 x 350 TPD+ 1 x 600 TPD + 1 x 500 TPD capacity DRI base Rotary Kilns with 6 X 10 TPH + 1x 38 TPH + 2 x 60 TPH capacity Waste Heat Recovery Boilers for generating the maximum of 52 MW power for captive uses.</p> |
| xiv) | All the char from DRI plant should be utilized in AFBC boiler of power plant and no char should be disposed anywhere. | | | <p>Being Complied</p> <p>6 MW capacity AFBC base captive power plant & 25 MW CFBC based CPP are in operation where Dolo-chars generated from DRI kilns are fully utilized for captive power generation.</p> |



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| xv) | Setting of 780,000 TPA Sponge iron plant (6 x 100 + 1 x 350 + 1 x 350 + 1 x 500 + 1 x 600)-780,000 TPA along with 83 MW captive power plant 83 MW (WHRB-52 MW + AFBC-6 MW + CFBC- 25 MW) at Mouza-Mathurakismat, J.L. No-114. | Noted & Already Complied |
| xvi) | Adequate air pollution control measures as noted in Environment plan need be complied. | <p>Being Complied</p> <ul style="list-style-type: none"> ❖ Existing Sponge Iron Unit having capacity 7,80,000 TPA (6 X 100 TPD, 1 X 350 TPD, 1 X600 TPD & 1 X 500 TPD capacity base DRI units) having 9 nos. of ESP's with 6 nos. of 10 TPH, 1 no of 38 TPH capacities & 02 Nos. 60 TPH Waste Heat Recovery Boilers (WHRB). ESPs of adequate capacity have been provided at 6 MW AFBC & 25 MW CFBC Boilers & all the DRI Kilns. ❖ All ESP & bag houses are design to meet the standard below prescribed limit. ❖ To control fugitive emission water mist fog canon system, water sprinklers, water guns, sweeper machine, movable water tanker is in place. |
| xvii) | Surface water shall be taken from Kansai River. No ground water shall be abstracted after completion of Kansai river pipeline | <p>Will be Complied</p> <p>Company has got water withdrawal permission of surface water from State Water Investigation Directorate (SWID), West Bengal from Kansai River. Laying of pipeline from River Kansabati to the industry is completed and water extraction from 02 no. of bore wells on Kasai River bed is already started.</p> <p>Scheme for integrated water distribution networks between industrial units of the Group with respect to surface water drawal from Kansabati river is already submitted to ministry.</p> |
| xviii) | Emission level from Bag filter and ESP shall be 30 mg/Nm ³ . | Being Complied |
| xix) | PP committed for use of imported coal only. However, the committee felt that during the non-availability of imported coal, PP shall be using Indian coal. Therefore, the pollution control equipment shall be designed for use of Indian coal/higher pollution load. | <p>Agreed</p> <p>For the current operational plant, the installed pollution control equipments are also designed for using Indian coal.</p> |
| xx) | Zero liquid discharge shall be adopted | <p>Being Complied</p> <p>Our plant is designed as a Zero Discharge plant. Water is mainly used for cooling purpose. After evaporation loss the quantum of remaining water is sent to the cooling tower in order to reuse the water again. Blow down water from cooling tower is used for dust suppression & in sponge iron. No water is discharged outside the plant premises.</p> <p>Effluent generated from slag granulation is treated in primary ETP and is reused in process, for dust suppression & green belt development.</p> <p>The management has also installed Online OCEMS web camera (effluent) to ensure no waste water is being discharged outside plant premises.</p> |








| xxi) | 100% waste utilization shall be followed. | <p style="text-align: center;">Being Complied</p> <p>The char from DRI plants are being utilized in AFBC & CFBC boiler of power plant and no char is disposed of anywhere else. The solid waste utilization detail is as followed:</p> <table border="1" data-bbox="808 359 1487 684"> <thead> <tr> <th>Particulars</th> <th>Disposal Scheme</th> </tr> </thead> <tbody> <tr> <td>Kiln Accretion</td> <td>Used in Sinter Plant of associate company, Cement Manufacturing</td> </tr> <tr> <td>Char & Dolochar</td> <td>Used in FBC Boiler</td> </tr> <tr> <td>Fly Ash</td> <td>Used for bricks manufacturing and Cement Manufacturing</td> </tr> <tr> <td>Dust from APC Devices</td> <td>Used in Sinter Plant of associate company and also for Brick Manufacturing</td> </tr> <tr> <td>Bottom Ash</td> <td>Road Construction & Land levelling</td> </tr> </tbody> </table> | Particulars | Disposal Scheme | Kiln Accretion | Used in Sinter Plant of associate company, Cement Manufacturing | Char & Dolochar | Used in FBC Boiler | Fly Ash | Used for bricks manufacturing and Cement Manufacturing | Dust from APC Devices | Used in Sinter Plant of associate company and also for Brick Manufacturing | Bottom Ash | Road Construction & Land levelling |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------|----------------|-----------------------------------------------------------------|-----------------|--------------------|---------|--------------------------------------------------------|-----------------------|----------------------------------------------------------------------------|------------|------------------------------------|
| Particulars | Disposal Scheme | | | | | | | | | | | | | |
| Kiln Accretion | Used in Sinter Plant of associate company, Cement Manufacturing | | | | | | | | | | | | | |
| Char & Dolochar | Used in FBC Boiler | | | | | | | | | | | | | |
| Fly Ash | Used for bricks manufacturing and Cement Manufacturing | | | | | | | | | | | | | |
| Dust from APC Devices | Used in Sinter Plant of associate company and also for Brick Manufacturing | | | | | | | | | | | | | |
| Bottom Ash | Road Construction & Land levelling | | | | | | | | | | | | | |
| xxii) | Green belt shall cover 33% of the total area in the plant site. | <p style="text-align: center;">Being Complied</p> <p>Green belt with density of 2500 per hectare along and around boundary of the site towards the highway already started. In financial year 2023-24 from April 2023 to September 2023 around 500 saplings of trees and the survival rate is 93.0%.</p> <p>The detail of green belt developed is already discussed in point no-xi.</p> | | | | | | | | | | | | |
| A. | GENERAL CONDITIONS: | COMPLIANCE STATUS | | | | | | | | | | | | |
| i) | The project authorities must strictly adhere to the stipulation made by the West Bengal State Pollution Control Board and the State Government. | <p style="text-align: center;">Being Complied</p> <p>Adequate measure has been taken by management of OMPL-I for pollution control and complying with all condition issues by Central Pollution Control Board and State Pollution Control Board. Reports of Monitoring and compliance are submitted to WBPCB on regular basis.</p> | | | | | | | | | | | | |
| ii) | No further expansion or modifications in the plant shall be carried but without prior approval of the Ministry of Environment and Forests. | <p>In compliance to this point amendment and part transfer in EC No. J-11011/227/2007-I (A) dated: 12.6.2008, 10.12.2008, 12.02.2015, 06.01.2017, 30.08.2018 & 26.12.2019 obtained by ministry vide EC no. - J-11011/229/2007-I (A) dated 07.07.2021.</p> <p>Copy of the amended and part transfer EC is already submitted to regional office of ministry and SPCB with Six Monthly Compliance report (June-22) vide letter no-OMPL-I/ENV_COMPL/June-2022 dated 26.05.2022</p> | | | | | | | | | | | | |
| iii) | The Gaseous emissions from various process units shall conform to the load/mass-based standards notified by this Ministry on 19th May, 1993 and standards prescribed from time to time. The State Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. | <p style="text-align: center;">Complied</p> <p>All the necessary measures have been adopted by management of OMPL-I for preventing the gaseous emission on priority basis. The load mass-based standards for the financial year 2022-23 is calculated and submitted with environmental statement in prescribed format to WBPCB vide letter no. OMPL-I/ENV_Statement/2022-2023 dated 26.09.2023.</p> | | | | | | | | | | | | |



| iv) | <p>At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM10, SO2, and NOx are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and the SPCB/CPCB once in six months.</p> | <p style="text-align: center;">Being Complied</p> <p>As stated in point no-I of specific condition, 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. Also 01 no manual AAQMS is installed at plant main gate.</p> <p>Data on ambient air quality and stack emission is regularly submitted to this Ministry including its Integrated Regional Office, Kolkata and the WBPCB & CPCB. Last report submitted with six monthly compliance report -OMPL-I/ENV COMPL/December-2022 dated 19.11.2022.</p> <p>CAAQMS reports are attached in as Annexure No. - VII</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------|------|---------------------|--|--------------------|--|-----|-------|-----|-------|-----|-------|-----------|------|------|------|------|------|------|-----------|------------------------|---------------|------|------|-----------|-----------|-----------|
| v) | <p>Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.</p> | <p style="text-align: center;">Being Complied</p> <p>Plant is designed as Zero Discharge Plant. Primary ETP plant is installed in plant and CPP blow down is used in DRI plant. No waste water is discharged outside the premises. Water is recycled and reused for dust suppression and green belt development. Online OCEMS web camera (effluent) has been installed to ensure no waste water is being discharged outside plant premises.</p> <p>M/s Greenvision, West Bengal which is NABL/ WBPCB/OSPCB accredited laboratory has done the analysis. The analysis report of Effluent, STP (inlet & outlet) & Ground water sampling Report is enclosed as Annexure-VIII.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| vi) | <p>The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods. Silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and dBA (night-time).</p> | <p style="text-align: center;">Being Complied</p> <p>Ambient & Work Zone Noise Monitoring Analysis (inside the plant in different units) is done by MoEF&CC, New Delhi /NABL accredited Laboratories.</p> <p>Noise levels have been monitored at five locations viz. Near Plant Main Gate, Shyamraipur Village, Truck Parking Area Between DRI Plant Area, & Near CPP Area by third party monitoring agency M/s Greenvision, West Bengal which is NABL/ WBPCB accredited laboratory. As per monitoring reports the noise levels are as follows:</p> <table border="1" data-bbox="773 1461 1523 1598"> <thead> <tr> <th rowspan="2">Parameter</th> <th colspan="2">Near Plant Main Gate</th> <th colspan="2">Shyamraipur Village</th> <th colspan="2">Truck Parking Area</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>Leq (dBA)</td> <td>66.3</td> <td>52.2</td> <td>61.0</td> <td>51.2</td> <td>69.5</td> <td>52.7</td> </tr> </tbody> </table> <table border="1" data-bbox="849 1612 1446 1749"> <thead> <tr> <th rowspan="2">Parameter</th> <th>Between DRI Plant Area</th> <th>Near CPP Area</th> </tr> <tr> <th>Avg.</th> <th>Avg.</th> </tr> </thead> <tbody> <tr> <td>Leq (dBA)</td> <td>53.8-68.5</td> <td>59.6-67.8</td> </tr> </tbody> </table> <p>The Ambient & work zone noise monitoring report is enclosed as Annexure-IX.</p> | Parameter | Near Plant Main Gate | | Shyamraipur Village | | Truck Parking Area | | Day | Night | Day | Night | Day | Night | Leq (dBA) | 66.3 | 52.2 | 61.0 | 51.2 | 69.5 | 52.7 | Parameter | Between DRI Plant Area | Near CPP Area | Avg. | Avg. | Leq (dBA) | 53.8-68.5 | 59.6-67.8 |
| Parameter | Near Plant Main Gate | | | Shyamraipur Village | | Truck Parking Area | | | | | | | | | | | | | | | | | | | | | | | | |
| | Day | Night | Day | Night | Day | Night | | | | | | | | | | | | | | | | | | | | | | | | |
| Leq (dBA) | 66.3 | 52.2 | 61.0 | 51.2 | 69.5 | 52.7 | | | | | | | | | | | | | | | | | | | | | | | | |
| Parameter | Between DRI Plant Area | Near CPP Area | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Avg. | Avg. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leq (dBA) | 53.8-68.5 | 59.6-67.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| vii) | <p>Occupational health surveillance of then workers shall be done on a regular basis and</p> | <p style="text-align: center;">Being Complied</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



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| | records maintained as per the Factories Act. | Occupational health surveillance of the workers is periodically accessed on a regular basis and records are being maintained as per The Factories Act. 1948. Company is ISO 45001:2018 certified and certificate is valid till 30-10-2023. OHS record is attached as Annexure-X . |
| viii) | The company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table. | Complied OMPL has 01 no full fledge rain water harvesting pond in operation of total capacity 50,000 KL (approx.) in plant premises and harvested water are being used for dust suppression, green belt development etc.  |
| ix) | The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc. | Being Complied The project proponent is fully committed in socio economic development activities of the surrounding villages and CSR activities are being continuously done throughout the year. In financial year 2023-24, OMPL company has spent Rs. 33,66,00,000 under the head of CSR/CER. The recent CSR/CER photograph are as:  <u>Community of Temple</u>  <u>Construction of Recreation Centre</u>  <u>Installation of Street Light</u>  <u>Intra Staff Sports Meet - Sponsorship</u> |



| x) | <p>Requisite amount shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Bhubaneswar. The funds so provided shall not be diverted for any other purpose.</p> | <p style="text-align: center;">Being Complied</p> <p>Rs. 25.0 crore and Rs.2.55 crores is earmarked towards capital cost and annual recurring cost for implementing the environmental protection measures.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: center;">Recurring Cost Incurred on Environmental Safeguard</th> </tr> <tr> <th style="width: 15%;">Year</th> <th style="width: 20%;">Particulars</th> <th style="width: 45%;">Narration</th> <th style="width: 20%;">Amount (INR)</th> </tr> </thead> <tbody> <tr> <td rowspan="4" style="text-align: center; vertical-align: middle;">2023-2024 (Till Sept.)</td> <td>Green Belt Development</td> <td>Maintenance, labour cost etc.</td> <td style="text-align: right;">1,62,600.00</td> </tr> <tr> <td>House Keeping</td> <td>Labour charges, Drainage Cleaning and other materials</td> <td style="text-align: right;">8,10,800.00</td> </tr> <tr> <td>Analysis & Monitoring of Environmental Parameters</td> <td>Stack, Fugitive, Ambient, Water etc. Monitoring & Analysis, In-house Analysis</td> <td style="text-align: right;">5,05,900.00</td> </tr> <tr> <td>O & M on A.P.C Devices</td> <td>Operation & Maintenance cost, Electricity consumption etc. on A.P.C Device installed.</td> <td style="text-align: right;">1,58,10,000.00</td> </tr> <tr> <td colspan="3" style="text-align: center;">TOTAL</td> <td style="text-align: right;">1,72,89,300.0</td> </tr> </tbody> </table> | Recurring Cost Incurred on Environmental Safeguard | | | | Year | Particulars | Narration | Amount (INR) | 2023-2024 (Till Sept.) | Green Belt Development | Maintenance, labour cost etc. | 1,62,600.00 | House Keeping | Labour charges, Drainage Cleaning and other materials | 8,10,800.00 | Analysis & Monitoring of Environmental Parameters | Stack, Fugitive, Ambient, Water etc. Monitoring & Analysis, In-house Analysis | 5,05,900.00 | O & M on A.P.C Devices | Operation & Maintenance cost, Electricity consumption etc. on A.P.C Device installed. | 1,58,10,000.00 | TOTAL | | | 1,72,89,300.0 |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|--|--|--|------|-------------|-----------|--------------|---------------------------|------------------------|-------------------------------|-------------|---------------|-------------------------------------------------------|-------------|---------------------------------------------------|-------------------------------------------------------------------------------|-------------|------------------------|---------------------------------------------------------------------------------------|----------------|--------------|--|--|----------------------|
| Recurring Cost Incurred on Environmental Safeguard | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Year | Particulars | Narration | Amount (INR) | | | | | | | | | | | | | | | | | | | | | | | | |
| 2023-2024 (Till Sept.) | Green Belt Development | Maintenance, labour cost etc. | 1,62,600.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| | House Keeping | Labour charges, Drainage Cleaning and other materials | 8,10,800.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Analysis & Monitoring of Environmental Parameters | Stack, Fugitive, Ambient, Water etc. Monitoring & Analysis, In-house Analysis | 5,05,900.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| | O & M on A.P.C Devices | Operation & Maintenance cost, Electricity consumption etc. on A.P.C Device installed. | 1,58,10,000.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL | | | 1,72,89,300.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| xi) | <p>A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter also be put on the web site of the company by the proponent.</p> | <p style="text-align: center;">Complied</p> <p>Copies of EC dated 07.07.2021 w.r.t part transfer and amendment were submitted to DM, Paschim Medinipur vide letter dated 20.07.2021 and EC copy also uploaded on the website of the company http://orissametaliks.com/qehs.html.</p> <p>Copy of intimation letter is already submitted to regional office of ministry and SPCB with Six Monthly Compliance report (DEC-21) vide letter no-OMPL-I/ENV_COMPL/December-2021 dated 01.12.2021</p> | | | | | | | | | | | | | | | | | | | | | | | | | |
| xii) | <p>The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF at Bhubaneswar. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely PM10, SO2, NOx) ambient levels as well as well as stack emissions) or critical sectoral parameters indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.</p> | <p style="text-align: center;">Being Complied</p> <p>Monitoring of criteria pollutants level namely; PM₁₀, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters is done by NABL/ MOEF accredited laboratory. Emission levels of pollutants of different units is displayed on board maintained as per CPCB format issued vide File no-B-29016 NGT/C-10/2020/ WM II/Div./ Dated 20th January 2020 outside the main gate of the plant for disclosure to the public and also uploaded on the website of the company https://www.rashmigroup.com/ehs/.</p> <p>Electronic display board is installed at plant main gate and online stack emission data and CAAQMS data is also being displayed.</p> | | | | | | | | | | | | | | | | | | | | | | | | | |




| xiii) | The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environment conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bhubaneswar/CPCB/SPCB shall monitor the stipulated conditions. | <p style="text-align: center;">Being Complied</p> <p>Regular reports of Monitoring and compliance are submitted to Ministry at regional office. The details of submission are enclosed here with.</p> <table border="1" data-bbox="776 331 1523 863"> <thead> <tr> <th>Sr. No</th> <th>Year</th> <th>Period Up To</th> <th>Submission Date</th> </tr> </thead> <tbody> <tr> <td rowspan="2">1</td> <td rowspan="2">2016-2017</td> <td>1st Dec 2016</td> <td>26.11.2016</td> </tr> <tr> <td>1st June 2017</td> <td>16.05.2017</td> </tr> <tr> <td rowspan="2">2</td> <td rowspan="2">2017-2018</td> <td>1st Dec 2017</td> <td>01.12.2017</td> </tr> <tr> <td>1st June 2018</td> <td>01.06.2018</td> </tr> <tr> <td rowspan="2">3</td> <td rowspan="2">2018-2019</td> <td>1st Dec 2018</td> <td>28.11.2018</td> </tr> <tr> <td>1st June 2019</td> <td>23.05.2019</td> </tr> <tr> <td rowspan="2">4</td> <td rowspan="2">2019-2020</td> <td>1st Dec 2019</td> <td>14.11.2019</td> </tr> <tr> <td>1st June 2020</td> <td>29.05.2020</td> </tr> <tr> <td rowspan="2">5</td> <td rowspan="2">2020-2021</td> <td>1st Dec 2020</td> <td>30.11.2020</td> </tr> <tr> <td>1st June 2021</td> <td>31.05.2021</td> </tr> <tr> <td rowspan="2">6</td> <td rowspan="2">2021-2022</td> <td>1st Dec 2021</td> <td>01.12.2021</td> </tr> <tr> <td>1st June 2022</td> <td>26.05.2022</td> </tr> <tr> <td rowspan="2">7</td> <td rowspan="2">2022-2023</td> <td>1st Dec 2022</td> <td>19.11.2022</td> </tr> <tr> <td>1st June 2023</td> <td>25.05.2023</td> </tr> </tbody> </table> | Sr. No | Year | Period Up To | Submission Date | 1 | 2016-2017 | 1 st Dec 2016 | 26.11.2016 | 1 st June 2017 | 16.05.2017 | 2 | 2017-2018 | 1 st Dec 2017 | 01.12.2017 | 1 st June 2018 | 01.06.2018 | 3 | 2018-2019 | 1 st Dec 2018 | 28.11.2018 | 1 st June 2019 | 23.05.2019 | 4 | 2019-2020 | 1 st Dec 2019 | 14.11.2019 | 1 st June 2020 | 29.05.2020 | 5 | 2020-2021 | 1 st Dec 2020 | 30.11.2020 | 1 st June 2021 | 31.05.2021 | 6 | 2021-2022 | 1 st Dec 2021 | 01.12.2021 | 1 st June 2022 | 26.05.2022 | 7 | 2022-2023 | 1 st Dec 2022 | 19.11.2022 | 1 st June 2023 | 25.05.2023 |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------|--------------|-----------------|---|-----------|--------------------------|------------|---------------------------|------------|---|-----------|--------------------------|------------|---------------------------|------------|---|-----------|--------------------------|------------|---------------------------|------------|---|-----------|--------------------------|------------|---------------------------|------------|---|-----------|--------------------------|------------|---------------------------|------------|---|-----------|--------------------------|------------|---------------------------|------------|---|-----------|--------------------------|------------|---------------------------|------------|
| Sr. No | Year | Period Up To | Submission Date | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2016-2017 | 1 st Dec 2016 | 26.11.2016 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 1 st June 2017 | 16.05.2017 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2017-2018 | 1 st Dec 2017 | 01.12.2017 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 1 st June 2018 | 01.06.2018 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 2018-2019 | 1 st Dec 2018 | 28.11.2018 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 1 st June 2019 | 23.05.2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 2019-2020 | 1 st Dec 2019 | 14.11.2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 1 st June 2020 | 29.05.2020 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 2020-2021 | 1 st Dec 2020 | 30.11.2020 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 1 st June 2021 | 31.05.2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 2021-2022 | 1 st Dec 2021 | 01.12.2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 1 st June 2022 | 26.05.2022 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 2022-2023 | 1 st Dec 2022 | 19.11.2022 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 1 st June 2023 | 25.05.2023 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| xiv) | The environment statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MOEF at Bhubaneswar by e-mail. | <p style="text-align: center;">Complied</p> <p>All the necessary measures have been adopted by management of OMPL for preventing the gaseous emission on priority basis. The environmental statement in prescribed format for the financial year 2022-23 is submitted to WBPCB vide letter no. OMPL-I/ENV_Statement/2022-2023 dated 26.09.2023 and also uploaded on the website of the company http://orissametaliks.com/qehs.html.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| xv) | The project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwards to the Regional office at Bhubaneswar. | <p style="text-align: center;">Complied</p> <p>Advertisement within seven days from the date of issue of the Environment clearance amendment & part transfer in two local newspapers that are widely circulated in the region are made. The details are:</p> <ul style="list-style-type: none"> • Aajkal (Bengali Version) dated 10.07.2021 • Echo of India (English version) dated 10.07.2021 <p>Copy of the advertisement is already submitted to regional office of ministry and SPCB with Six Monthly Compliance report (DEC-21) vide letter no-OMPL-I/ENV_COMPL/December-2021 dated 01.12.2021</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| xvi) | Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work. | <p style="text-align: center;">Agreed</p> <p>Private Company, no finance is needed from outside.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| | | |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| xvii) | The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory. | Noted |
| xviii | The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions. | Agreed |
| xix.) | Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 11 of the National Green Tribunal Act, 1977. | Noted |
| xx.) | The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and Rules. | Noted |

F. No. IA3-22/8/2021-IA.III [E 150512] dated 18.07.2022

| | | |
|----|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I) | Sensitization of project proponents on implementation of ban on Single Use Plastic (SUP). | <p>In order to create awareness among the employees about the harm/ impact of Single Use Plastic on environment as well as human health, number of banners and flex has been displayed at suitable place like work place, canteen & parking area etc.</p>  |
|----|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|





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(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



TEST REPORT OF AMBIENT AIR ANALYSIS

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

Sample is drawn by M/s. Greenvision

U.L.R. No. : TC1100323000000400F

Report No. : GV/AR/23-24/212
Name of Customer : M/s. Orissa Metaliks Pvt. Ltd. (I)
Address of Customer : Mouza : Mathurakismat, Gokulpur,
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-154-2023(1)
Report Date : 29.09.2023
Date of Sampling : 14.09.2023 to
15.09.2023
Date of Receiving : 16.09.2023
Analysis Started On : 18.09.2023
Analysis Completed On : 20.09.2023
Time of Sampling : 08:30 am to
08:30 am

A. METROLOGICAL INFORMATION

Average Temperature (°C) : 32.5
Average Relative Humidity (%) : 72.0
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 | 70.43 | IS : 5182 (Part 23),2006 |
| 02. | Concentration of PM _{2.5} | µg/m ³ | 37.07 | EPA CFR – 40 (pt 50) Appendix – 1 : 2003 |
| 03. | Concentration of SO ₂ | µg/m ³ | 9.52 | IS : 5182 (Part 2),2006 |
| 04. | Concentration of NO ₂ | µg/m ³ | 39.44 | IS : 5182 (Part 6),2006 |
| 05. | Concentration of CO | mg/m ³ | 0.326 | 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. 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 (Filter Paper) is 6 months from the date of issue test report unless otherwise specified.



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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.greenvisiiondurgapur.com



TEST REPORT OF AMBIENT AIR ANALYSIS

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

Sample is drawn by M/s. Greenvision

Report No. : GV/AR/23-24/214
Name of Customer : M/s. Orissa Metaliks Pvt. Ltd. (I)
Address of Customer : Mouza : Mathurakismat, Gokulpur,
Dist. : Paschim Medinipur, Pin : 721301, W.B.
Sample Description : Ambient Air
Sampling Location : Maheshpur Village
Sample Condition : In GMF Filter Paper & Plastic Bottle
Location of Testing : At Laboratory
Sampling Method : CPCB, Emission Regulation (Part III)

U.L.R. No. : TC1100323000000401F

Sample Ref. ID : AS-154-2023(3)
Report Date : 29.09.2023
Date of Sampling : 14.09.2023 to
15.09.2023
Date of Receiving : 16.09.2023
Analysis Started On : 18.09.2023
Analysis Completed On : 20.09.2023
Time of Sampling : 09:05 am to
09:05 am

A. METROLOGICAL INFORMATION

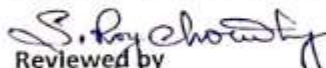
Average Temperature ($^{\circ}\text{C}$) : 32.5
Average Relative Humidity (%) : 72.0
Barometric Pressure (mm of Hg) : 756.0
Smell or Odour : No Remarkable Smell
Weather Condition : Clear Sky

B. RESULT OF ANALYSIS

| Sl. No. | Parameters | Unit | Concentration | Test Method |
|---------|------------------------------------|--------------------------|---------------|------------------------------------------|
| 01. | Concentration of PM ₁₀ | $\mu\text{g}/\text{m}^3$ | 64.87 | IS : 5182 (Part 23),2006 |
| 02. | Concentration of PM _{2.5} | $\mu\text{g}/\text{m}^3$ | 33.74 | EPA CFR – 40 (pt 50) Appendix – 1 : 2003 |
| 03. | Concentration of SO ₂ | $\mu\text{g}/\text{m}^3$ | 8.79 | IS : 5182 (Part 2),2006 |
| 04. | Concentration of NO ₂ | $\mu\text{g}/\text{m}^3$ | 38.83 | IS : 5182 (Part 6),2006 |
| 05. | Concentration of CO | mg/m^3 | 0.185 | 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

- Note: 1. This report refers to the values obtained at the time of testing and results related to the items tested.
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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



TEST REPORT OF AMBIENT AIR ANALYSIS

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

Sample is drawn by M/s. Greenvision

U.L.R. No. : TC1100323000000402F

Report No. : GV/AR/23-24/215
Name of Customer : M/s. Orissa Metaliks Pvt. Ltd. (I)
Address of Customer : Mouza : Mathurakismat, Gokulpur,
Dist. : Paschim Medinipur, Pin : 721301, W.B.
Sample Description : Ambient Air
Sampling Location : Mathurakismat 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-154-2023(4)
Report Date : 29.09.2023
Date of Sampling : 14.09.2023 to
15.09.2023
Date of Receiving : 16.09.2023
Analysis Started On : 18.09.2023
Analysis Completed On : 20.09.2023
Time of Sampling : 09:50 am to
09:50 am

A. METROLOGICAL INFORMATION


Average Temperature ($^{\circ}\text{C}$) : 32.5
Average Relative Humidity (%) : 72.0
Barometric Pressure (mm of Hg) : 756.0
Smell or Odour : No Remarkable Smell
Weather Condition : Clear Sky

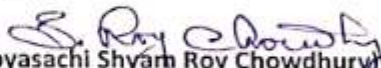
B. RESULT OF ANALYSIS

| Sl. No. | Parameters | Unit | Concentration | Test Method |
|---------|------------------------------------|--------------------------|---------------|------------------------------------------|
| 01. | Concentration of PM ₁₀ | $\mu\text{g}/\text{m}^3$ | 68.16 | IS : 5182 (Part 23),2006 |
| 02. | Concentration of PM _{2.5} | $\mu\text{g}/\text{m}^3$ | 35.83 | EPA CFR – 40 (pt 50) Appendix – 1 : 2003 |
| 03. | Concentration of SO ₂ | $\mu\text{g}/\text{m}^3$ | 8.78 | IS : 5182 (Part 2),2006 |
| 04. | Concentration of NO ₂ | $\mu\text{g}/\text{m}^3$ | 39.44 | IS : 5182 (Part 6),2006 |
| 05. | Concentration of CO | mg/m^3 | 0.208 | 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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ONLINE CONTINUOUS EMISSION MONITORING STATIONS (Period- 1st April 2023 to 30th September 2023)

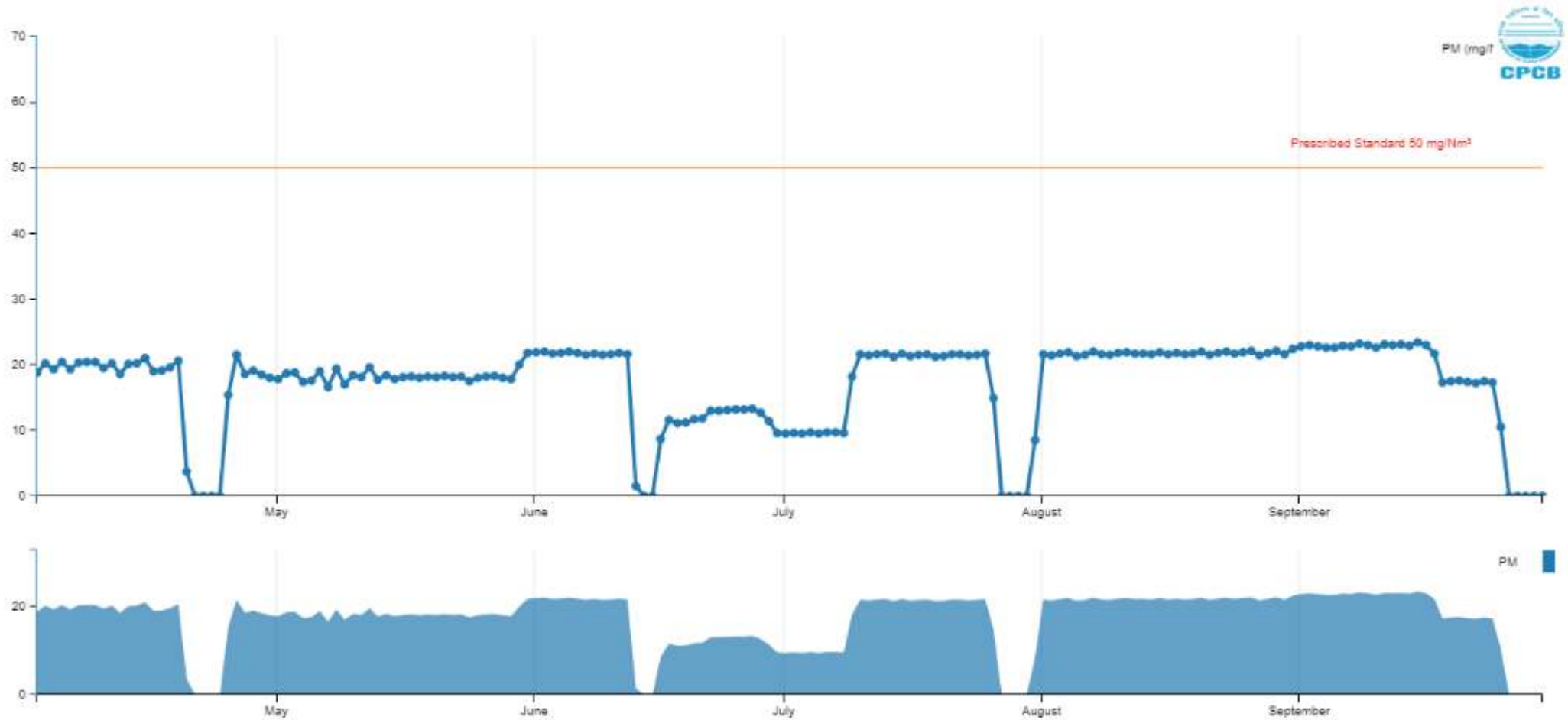
ORISSA METALIKS PRIVATE LIMITED UNIT-I (Previously Known as Rashmi Metaliks Limited Unit-II) Stack_4_AFBC Boiler_30TPH_Orissa Metallicks_WB

Tata Metalik Road, Gokulpur, Nimpura - 721304, Medinipur (W), Kharagpur, West Bengal Kharagpur West Bengal 721304

Start Date - 2023-04-01

End Date - 2023-09-30

Average - daily



ONLINE CONTINUOUS EMISSION MONITORING STATIONS (Period- 1st April 2023 to 30th September 2023)

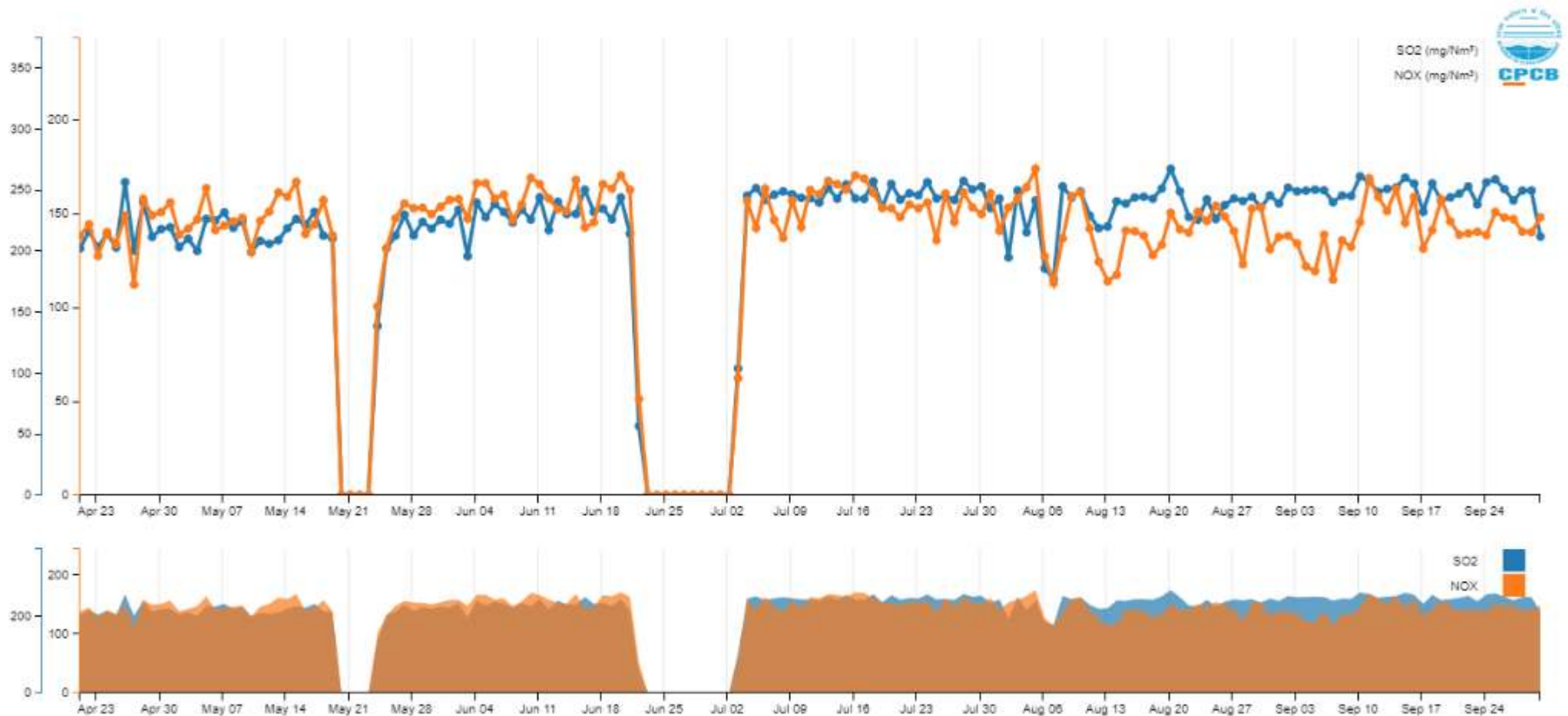
ORISSA METALIKS PRIVATE LIMITED UNIT-I (Previously Known as Rashmi Metaliks Limited Unit-II) STACK 5_CPP (CFBC BASED)

Tata Metalik Road, Gokulpur, Nimpura - 721304, Medinipur (W), Kharagpur, West Bengal Kharagpur West Bengal 721304

Start Date - 2023-04-01

End Date - 2023-09-30

Average - daily



ONLINE CONTINUOUS EMISSION MONITORING STATIONS (Period- 1st April 2023 to 30th September 2023)

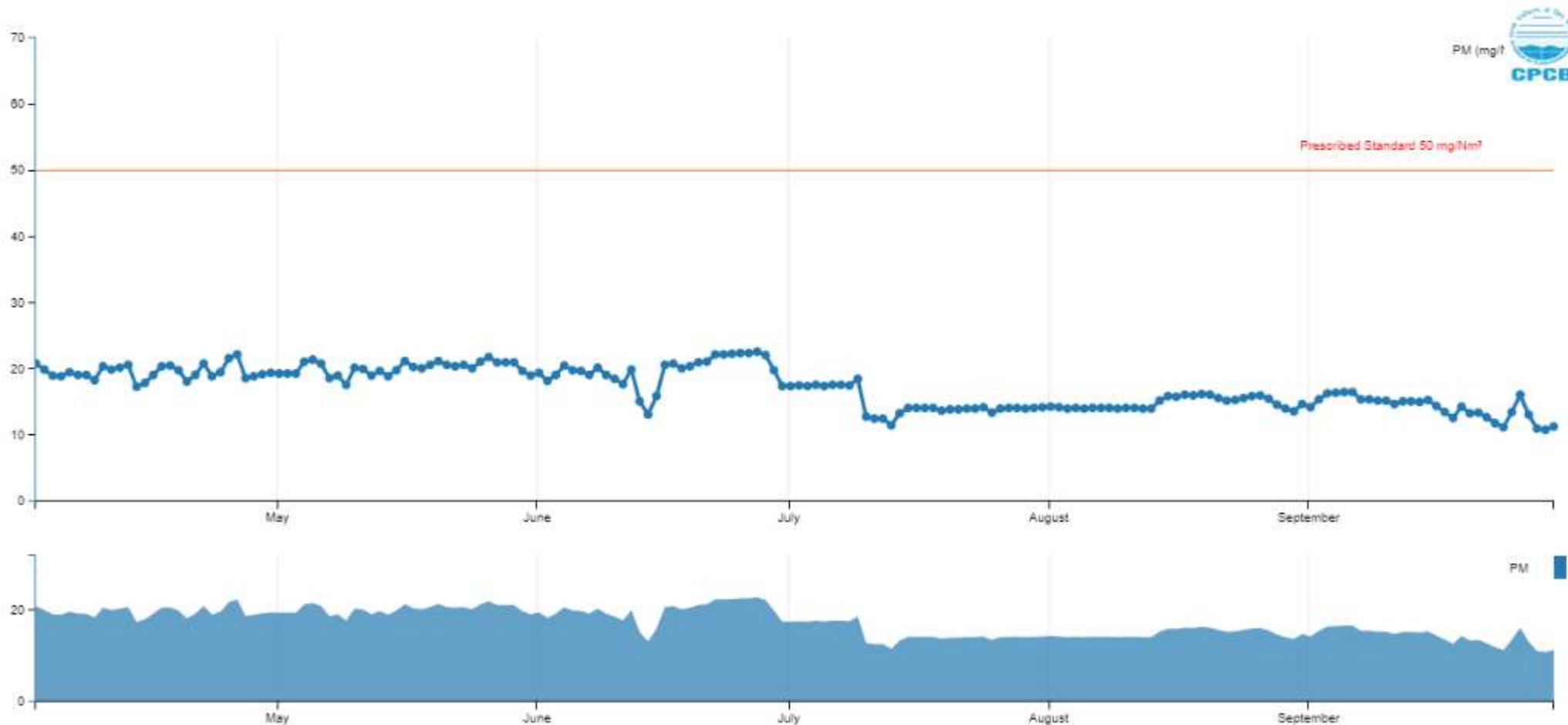
ORISSA METALIKS PRIVATE LIMITED UNIT-I (Previously Known as Rashmi Metaliks Limited Unit-II) Stack_5_CFBC Boiler_100TPH_Orissa Metallicks_WB

Tata Metalik Road, Gokulpur, Nimpura - 721304, Medinipur (W), Kharagpur, West Bengal Kharagpur West Bengal 721304

Start Date - 2023-04-01

End Date - 2023-09-30

Average - daily



ONLINE CONTINUOUS EMISSION MONITORING STATIONS (Period- 1st April 2023 to 30th September 2023)

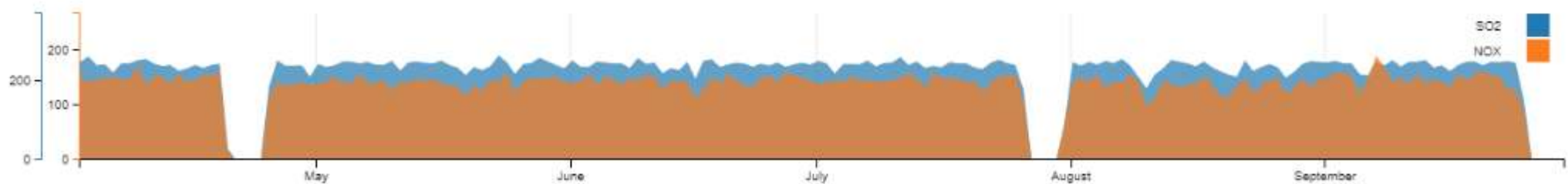
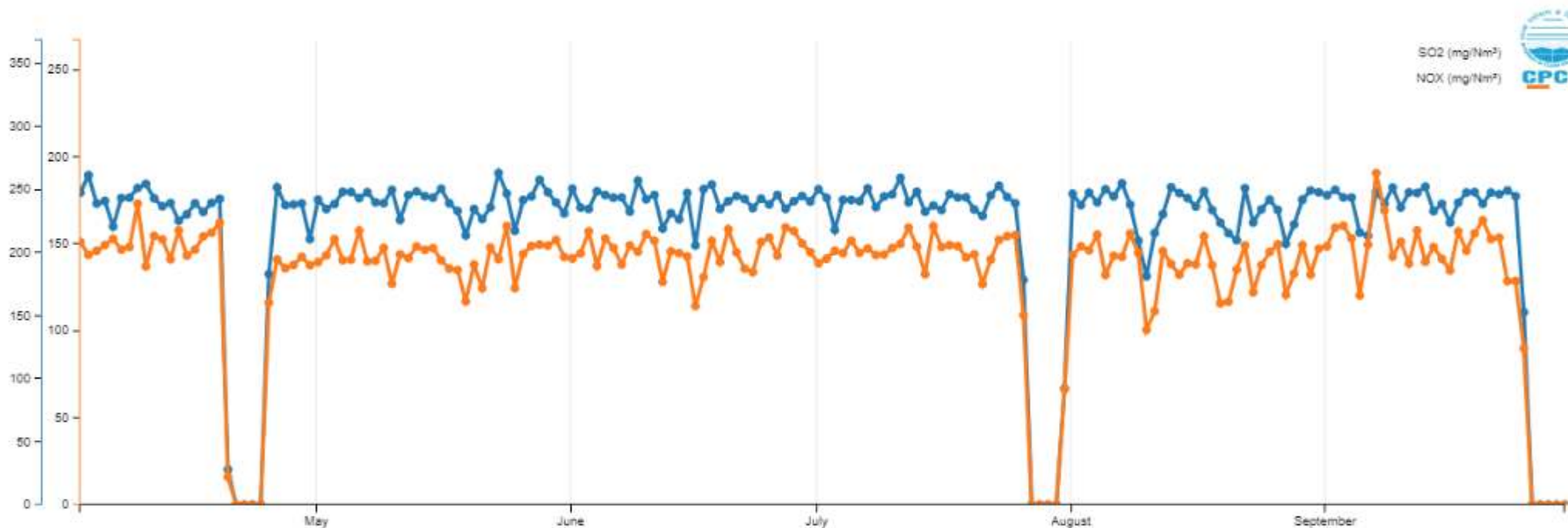
ORISSA METALIKS PRIVATE LIMITED UNIT-I (Previously Known as Rashmi Metaliks Limited Unit-II) STACK 4_CPP (AFBC BASED)

Tata Metallik Road, Gokulpur, Nimpura - 721304, Medinipur (W), Kharagpur, West Bengal Kharagpur West Bengal 721304

Start Date - 2023-04-01

End Date - 2023-09-30

Average - daily



ONLINE CONTINUOUS EMISSION MONITORING STATIONS (Period- 1st April 2023 to 30th September 2023)

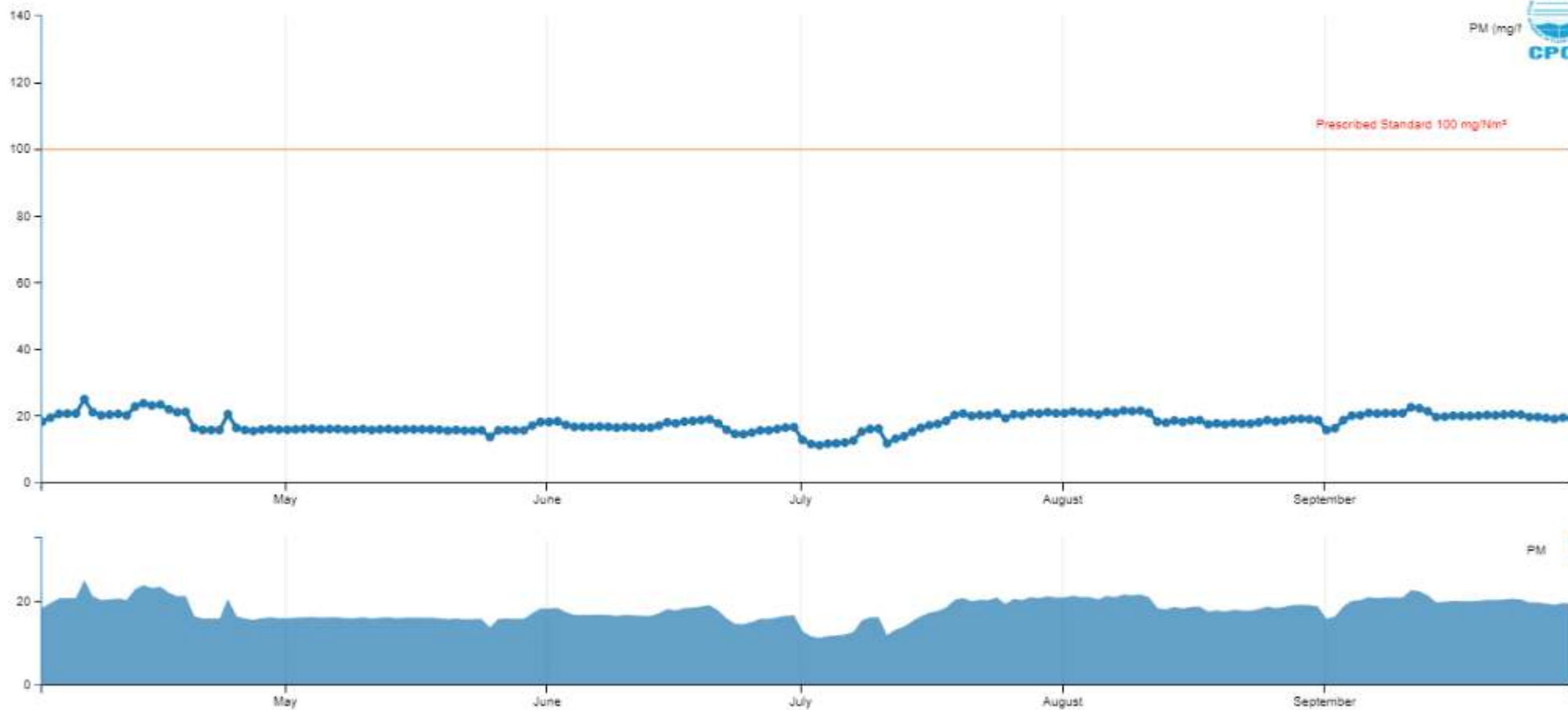
ORISSA METALIKS PRIVATE LIMITED UNIT-I (Previously Known as Rashmi Metaliks Limited Unit-II) Stack_6_DRI 5 and 6_Orissa Meataliks

Tata Metalik Road, Gokulpur, Nimpura - 721304, Medinipur (W), Kharagpur, West Bengal Kharagpur West Bengal 721304

Start Date - 2023-04-01

End Date - 2023-09-30

Average - daily



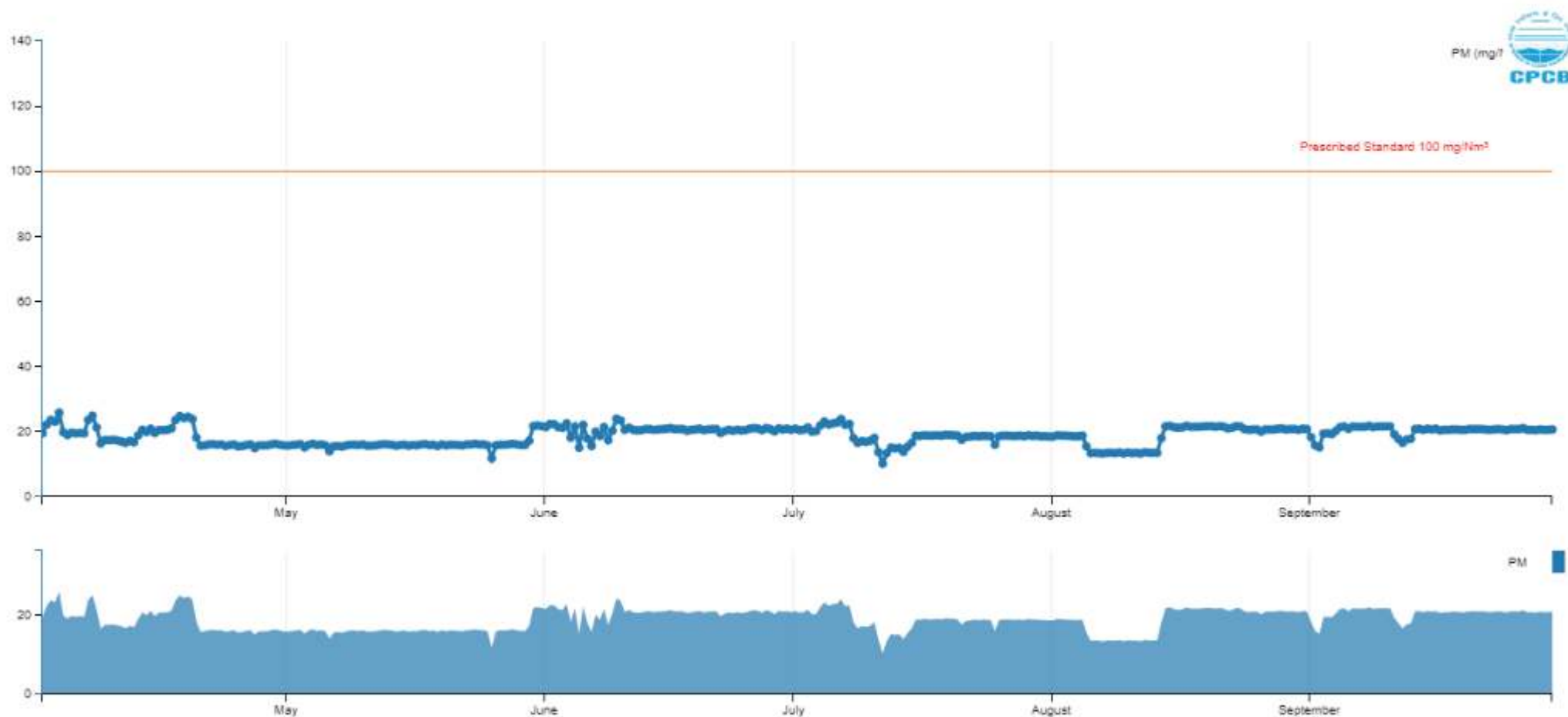
ONLINE CONTINUOUS EMISSION MONITORING STATIONS (Period- 1st April 2023 to 30th September 2023)

ORISSA METALIKS PRIVATE LIMITED UNIT-I (Previously Known as Rashmi Metaliks Limited Unit-II) Stack_2_Rotary Kln_1&2_100 TPD_Orissa Metallicks_WB
Tata Metalik Road, Gokulpur, Nimpura - 721304, Medinipur (W), Kharagpur, West Bengal Kharagpur West Bengal 721304

Start Date - 2023-04-01

End Date - 2023-09-30

Average - daily



ONLINE CONTINUOUS EMISSION MONITORING STATIONS (Period- 1st April 2023 to 30th September 2023)

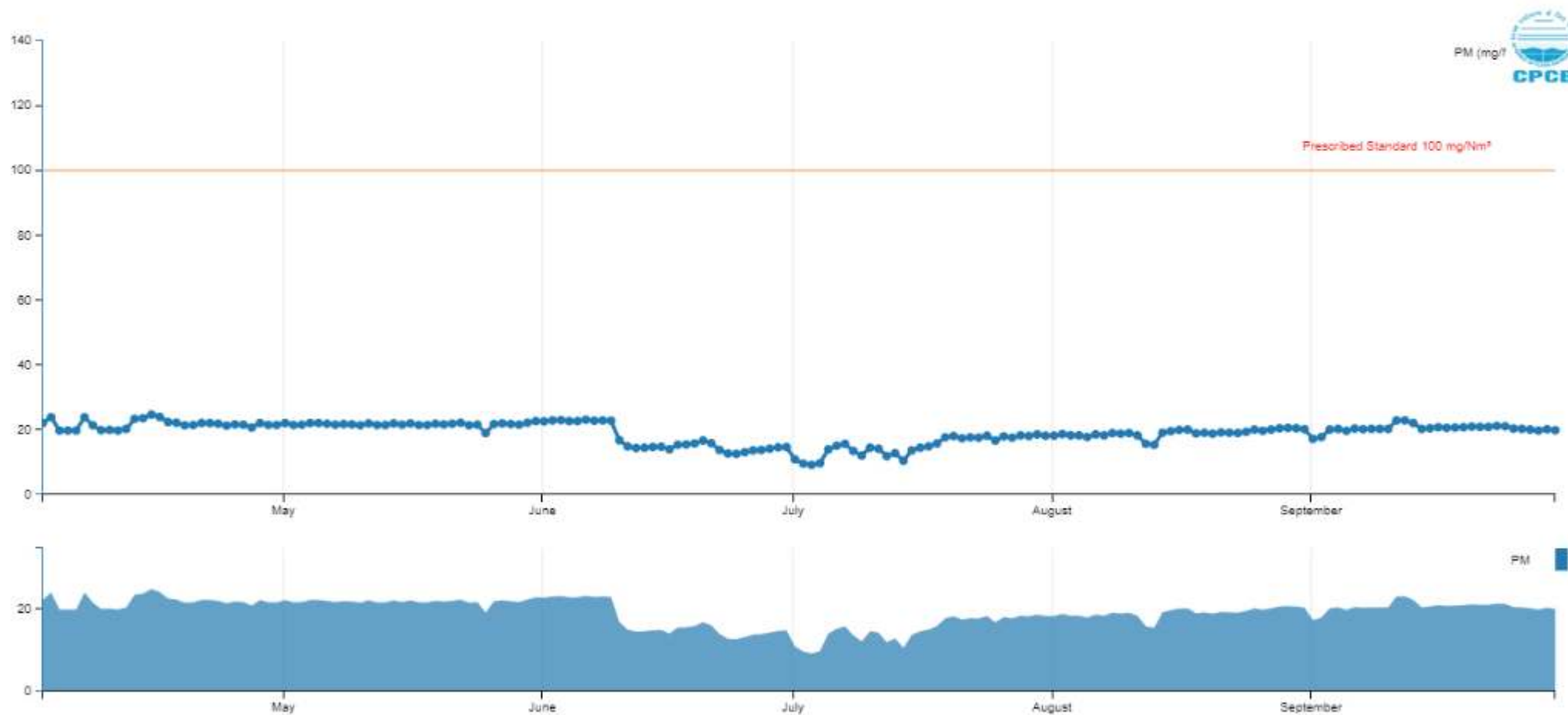
ORISSA METALIKS PRIVATE LIMITED UNIT-I (Previously Known as Rashmi Metaliks Limited Unit-II) Stack_3_Rotary Kiln_7_350 TPD_Orissa Metallicks_WB

Tata Metalik Road, Gokulpur, Nimpura - 721304, Medinipur (W), Kharagpur, West Bengal Kharagpur West Bengal 721304

Start Date - 2023-04-01

End Date - 2023-09-30

Average - daily



ONLINE CONTINUOUS EMISSION MONITORING STATIONS (Period- 1st April 2023 to 30th September 2023)

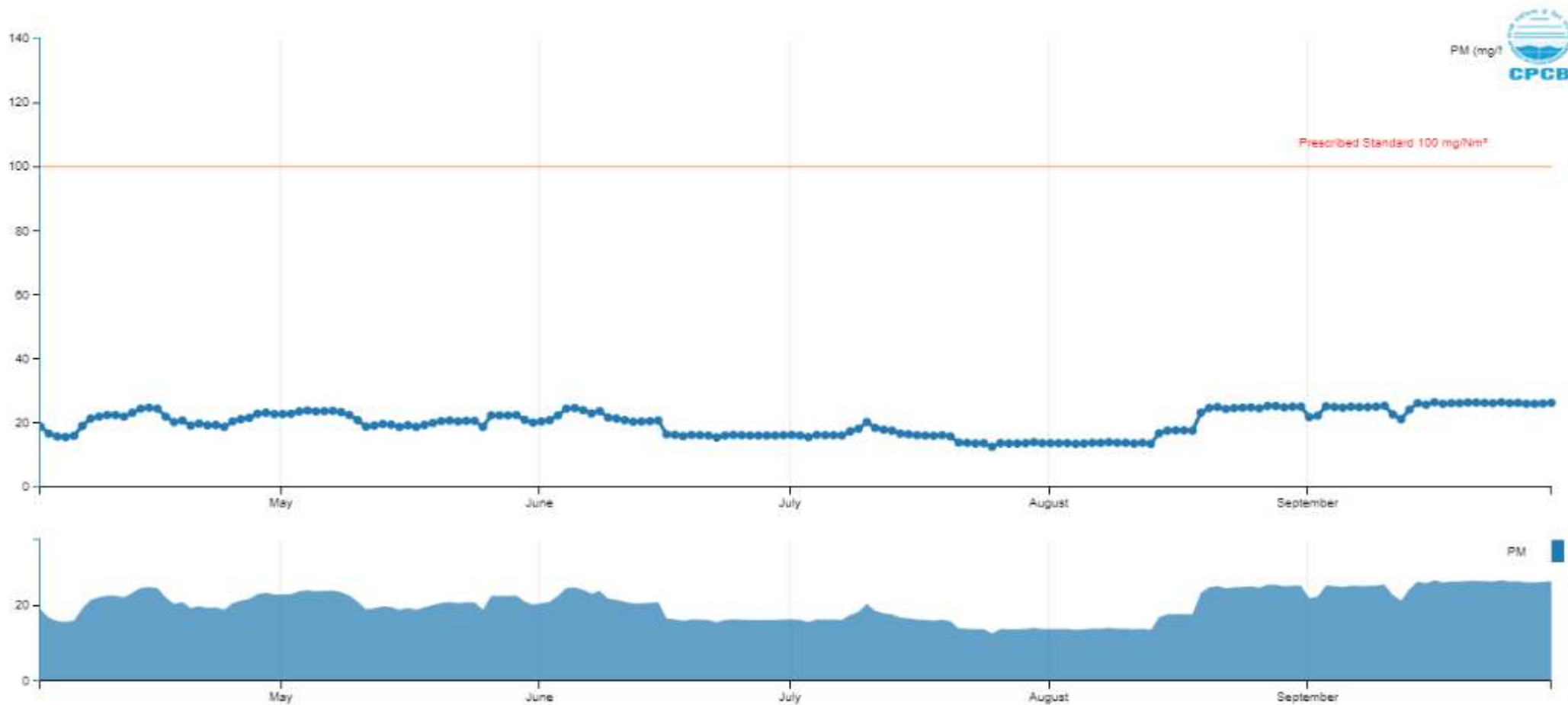
ORISSA METALIKS PRIVATE LIMITED UNIT-I (Previously Known as Rashmi Metaliks Limited Unit-II) STACK_1_DRI 3 & 4 (2 x 100 TPD)_Orissa Metallicks_WB

Tata Metalik Road, Gokulpur, Nimpura - 721304, Medinipur (W), Kharagpur, West Bengal Kharagpur West Bengal 721304

Start Date - 2023-04-01

End Date - 2023-09-30

Average - daily



ONLINE CONTINUOUS EMISSION MONITORING STATIONS (Period- 1st April 2023 to 30th September 2023)

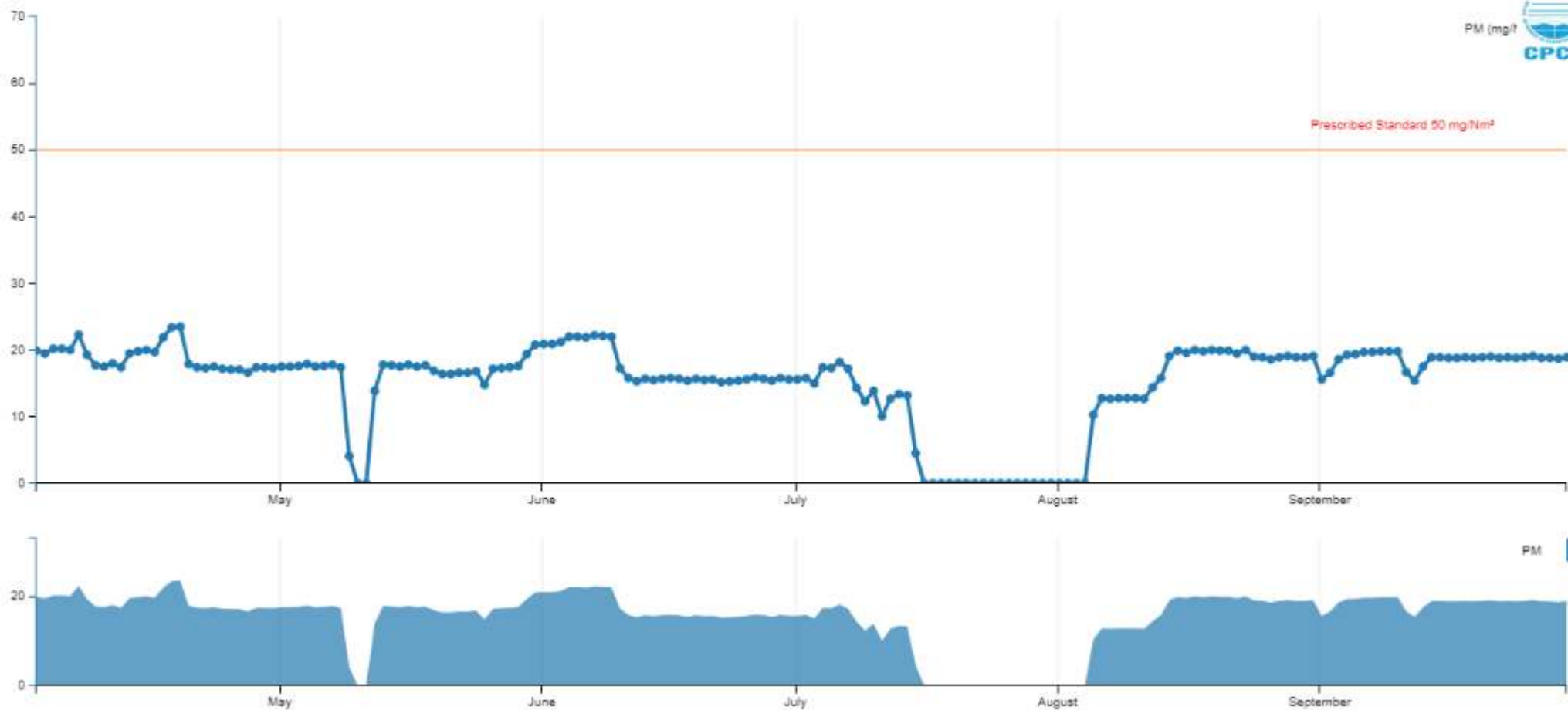
ORISSA METALIKS PRIVATE LIMITED UNIT-I (Previously Known as Rashmi
Metaliks Limited Unit-II) 08WB253_Stack_8_ Sponge Iron Kiln-1 x500 TPD

Tata Metalik Road, Gokulpur, Nimpura - 721304, Medinipur (W), Kharagpur, West Bengal Kharagpur West
Bengal 721304

Start Date - 2023-04-01

End Date - 2023-09-30

Average - daily



PM (mg/m³)

Prescribed Standard 50 mg/Nm³

PM



WEST BENGAL POLLUTION CONTROL BOARD

Haldia Regional Laboratory
Raghunathchak, P.O.-Barghasipur, P.S.-Bhabanipur
Haldia, Purba Medinipur – 721 657
Tel: (03224) 291292

Analysis Report of Gaseous Emission

Sample ID : 250820230254

| | | |
|-----|------------------------------------------------------------|----------------------------------------------------------------------------------------|
| 1. | Name of Industry | : M/s. Orissa Metallks Pvt. Ltd. (Unit-I) |
| 2. | Address | : VIII-Gokulpur, P.O.-Shyamraipur, Kharagpur, Dist- Paschim Medinipur |
| 3. | Category & Type | : Red/Sponge Iron unit |
| 4. | Sampling Date | : 23/08/2023 |
| 5. | Sampled collected by | : K. Sahoo (AEE), HRO |
| 6. | Thimble Number | : 608 |
| 7. | Name of WBPCB Recognized Laboratory | : M/s. Enviro Cell Laboratory |
| 8. | Duration of Sampling | : 42 min |
| 9. | Height of Stack from ground (m) | : 60.0 |
| 10. | Cross section of stack at sampling point (m ²) | : 8.29 |
| 11. | Stack connected to | : Rotary Kiln No.-7 & 8 through WHRB (Attached with common stack) |
| 12. | Emission source (Furnace / Boiler) | : Combustion of Coal & Pellet |
| 13. | Average operational hours of boiler/furnace (per month) | : 720 hrs./month |
| 14. | APC System (If any) | : ESP |
| 15. | Working load of source (MT/hr.) | : Kiln no. 7-320 TPD; Kiln no. 8-560 TPD |
| 16. | Fuel used | : Coal & Pellet |
| 17. | Rated Fuel consumption (Kg or L/hr.) | : Kiln no 7-Coal-12.0 TPH; Pellet-19.5 TPH Kiln no 8-Coal-20.5 TPH; Pellet-34.0 TPH |
| 18. | Working Fuel consumption (Kg or L/hr.) | : Kiln no 7-Coal-11.7 TPH; Pellet-18.5 TPH Kiln no 8-Coal-19.3 TPH; Pellet-32.0 TPH |
| 19. | Nature of Furnace / Boiler | : Rotary kiln |
| 20. | Flue Gas Temp (°C) | : 137.0 |
| 21. | Flue gas velocity (m/sec) | : 6.78 |
| 22. | Volume of Flue gas drawn in lit (m ³) | : 1.008 |
| 23. | Corrected flue gas volume (Nm ³) | : 0.9542 |
| 24. | Percentage CO ₂ and or O ₂ | : CO ₂ -10.2% & O ₂ -9.2% |
| 25. | To be compensated at (% , if required) | : At 12% CO ₂ |
| 26. | Initial weight of Thimble (g) | : 1.4182 |
| 27. | Final weight of Thimble (g) | : 1.4405 |
| 28. | Weight of Particulate Matter (mg) | : 22.30 |
| 29. | Particulate Matter (mg/Nm ³) | : 27.50 |
| 30. | Barometric Pressure Head in mm of Hg | : 755 mm of Hg |
| 31. | Diameter of the nozzle (mm) | : 12.7 mm |
| 32. | Others | : - |

Date of Reporting : 31/08/2023

[Signature]

Scientist

[Signature]

Senior Scientist

Copy to : 1. Chief Engineer (O&E)
2. Chief Scientist

3. Chief Engineer (Planning)
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Haldia, Purba Medinipur - 721 657
Tel: (03224) 291292

Analysis Report of Gaseous Emission

Sample ID : 250820230255

| | |
|----------------------------------------------------------------|-----------------------------------------------------------------------|
| 1. Name of Industry | : M/s. Orissa Metaliks Pvt. Ltd. (Unit-I) |
| 2. Address | : Vill-Gokulpur, P.O.-Shyamraipur, Kharagpur, Dist- Paschim Medinipur |
| 3. Category & Type | : Red/Sponge Iron unit |
| 4. Sampling Date | : 23/08/2023 |
| 5. Sampled collected by | : K. Sahoo (AEE), HRO |
| 6. Thimble Number | : 609 |
| 7. Name of WBPCB Recognized Laboratory | : M/s. Enviro Cell Laboratory |
| 8. Duration of Sampling | : 24 min |
| 9. Height of Stack from ground (m) | : 52.0 |
| 10. Cross section of stack at sampling point (m ²) | : 3.14 |
| 11. Stack connected to | : Rotary Kiln No-5 & 6 through WHRB (Attached with common stack) |
| 12. Emission source (Furnace / Boiler) | : Oxidation of Coal & Reduction of Iron ore |
| 13. Average operational hours of boiler/furnace (per month) | : 720 hrs./month |
| 14. APC System (if any) | : ESP |
| 15. Working load of source (MT/hr.) | : 100 TPD (each kiln) |
| 16. Fuel used | : Coal |
| 17. Rated Fuel consumption (Kg or L /hr.) | : Coal-5.2 TPH(each Kiln); Iron ore-6.7 TPH(each kiln) |
| 18. Working Fuel consumption (Kg or L /hr.) | : Coal-5.2 TPH(each Kiln); Iron ore-6.7 TPH(each kiln) |
| 19. Nature of Furnace / Boiler | : Rotary kiln |
| 20. Flue Gas Temp (°C) | : 140.0 |
| 21. Flue gas velocity (m/sec) | : 7.62 |
| 22. Volume of Flue gas drawn in lit (m ³) | : 1.003 |
| 23. Corrected flue gas volume (Nm ³) | : 0.9573 |
| 24. Percentage CO ₂ and or O ₂ | : CO ₂ -9.4% & O ₂ -10.0% |
| 25. To be compensated at (% , if required) | : At 12% CO ₂ |
| 26. Initial weight of Thimble (g) | : 1.4837 |
| 27. Final weight of Thimble (g) | : 1.5028 |
| 28. Weight of Particulate Matter (mg) | : 19.10 |
| 29. Particulate Matter (mg/Nm ³) | : 25.47 |
| 30. Barometric Pressure Head in mm of Hg | : 756 mm of Hg |
| 31. Diameter of the nozzle (mm) | : 12.7 mm |
| 32. Others | : - |

Date of Reporting : 31/08/2023

Scientist

Senior Scientist

Copy to : 1. Chief Engineer (O&E)
3. Chief Scientist

2. Chief Engineer (Planning)
4. Haldia Regional Office (2 copies)





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Haldia, Purba Medinipur – 721 657
Tel: (03224) 291292

Analysis Report of Gaseous Emission

Sample ID : 250820230256

| | |
|----------------------------------------------------------------|----------------------------------------------------------------------|
| 1. Name of Industry | : M/s. Orissa Metaliks Pvt. Ltd. (Unit-I) |
| 2. Address | : Vill-Gokulpur, PO- Shyamraipur, Kharagpur, Dist- Paschim Medinipur |
| 3. Category & Type | : Red/Sponge Iron unit |
| 4. Sampling Date | : 24/08/2023 |
| 5. Sampled collected by | : P.Mukherjee (JEE), HRO |
| 6. Thimble Number | : 610 |
| 7. Name of WBPCB Recognized Laboratory | : M/s. Enviro Cell Laboratory |
| 8. Duration of Sampling | : 25 min |
| 9. Height of Stack from ground (m) | : 52.0 |
| 10. Cross section of stack at sampling point (m ²) | : 3.80 |
| 11. Stack connected to | : CFBC Boiler (100 TPH) |
| 12. Emission source (Furnace / Boiler) | : Combustion of Coal & Dolochar |
| 13. Average operational hours of boiler/furnace (per month) | : 720 hrs./month |
| 14. APC System (if any) | : ESP |
| 15. Working load of source (MT/hr.) | : 92 TPH |
| 16. Fuel used | : Coal |
| 17. Rated Fuel consumption (Kg or L/hr.) | : Coal-9.51 TPH; Dolochar-17.66 TPH |
| 18. Working Fuel consumption (Kg or L/hr.) | : Coal-8.75 TPH; Dolochar-16.25 TPH |
| 19. Nature of Furnace / Boiler | : Boiler |
| 20. Flue Gas Temp (°C) | : 133.0 |
| 21. Flue gas velocity (m/sec) | : 11.64 |
| 22. Volume of Flue gas drawn in lit (m ³) | : 1.0 |
| 23. Corrected flue gas volume (Nm ³) | : 0.9528 |
| 24. Percentage CO ₂ and or O ₂ | : CO ₂ -10.8% & O ₂ -8.6% |
| 25. To be compensated at (% if required) | : At 6% O ₂ |
| 26. Initial weight of Thimble (g) | : 1.5209 |
| 27. Final weight of Thimble (g) | : 1.5432 |
| 28. Weight of Particulate Matter (mg) | : 22.30 |
| 29. Particulate Matter (mg/Nm ³) | : 28.31 |
| 30. Barometric Pressure Head in mm of Hg | : 756 mm of Hg |
| 31. Diameter of the nozzle (mm) | : 9.53 mm |
| 32. Others | : - |

Date of Reporting : 31/08/2023

Scientist

Senior Scientist

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3. Chief Scientist

2. Chief Engineer (Planning)
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WEST BENGAL POLLUTION CONTROL BOARD

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Haldia, Purba Medinipur – 721 657
Tel: (03224) 291292

Analysis Report of Gaseous Emission

Sample ID : 250820230257

| | |
|----------------------------------------------------------------|----------------------------------------------------------------------|
| 1. Name of Industry | : M/s. Orissa Metaliks Pvt. Ltd. (Unit-I) |
| 2. Address | : Vill-Gokulpur, P.O.-Shyamraipur, Kharagpur, Dist-Paschim Medinipur |
| 3. Category & Type | : Red/Sponge Iron unit |
| 4. Sampling Date | : 24/08/2023 |
| 5. Sampled collected by | : P. Mukherhee (JEE), HRO |
| 6. Thimble Number | : 611 |
| 7. Name of WBPCB Recognized Laboratory | : M/s. Enviro Cell Laboratory |
| 8. Duration of Sampling | : 24 min |
| 9. Height of Stack from ground (m) | : 52.0 |
| 10. Cross section of stack at sampling point (m ²) | : 3.14 |
| 11. Stack connected to | : Rotary Kiln No.-1 & 2 through WHRB (Attached with common stack) |
| 12. Emission source (Furnace / Boiler) | : Oxidation of Coal & Reduction of Iron ore |
| 13. Average operational hours of boiler/furnace (per month) | : 720 hrs./month |
| 14. APC System (if any) | : ESP |
| 15. Working load of source (MT/hr.) | : 100 TPD (each Kiln) |
| 16. Fuel used | : Coal |
| 17. Rated Fuel consumption (Kg or L/hr.) | : Coal-5.2 TPH(each Kiln); Iron ore-6.7 TPH(each kiln) |
| 18. Working Fuel consumption (Kg or L/hr.) | : Coal-5.2 TPH(each Kiln); Iron ore-6.7 TPH(each kiln) |
| 19. Nature of Furnace / Boiler | : Rotary Kiln |
| 20. Flue Gas Temp (°C) | : 142.0 |
| 21. Flue gas velocity (m/sec) | : 6.73 |
| 22. Volume of Flue gas drawn in lit (m ³) | : 1.008 |
| 23. Corrected flue gas volume (Nm ³) | : 0.9573 |
| 24. Percentage CO ₂ and or O ₂ | : CO ₂ -9.6% & O ₂ -9.8% |
| 25. To be compensated at (% if required) | : At 12% CO ₂ |
| 26. Initial weight of Thimble (g) | : 1.3589 |
| 27. Final weight of Thimble (g) | : 1.3724 |
| 28. Weight of Particulate Matter (mg) | : 13.50 |
| 29. Particulate Matter (mg/Nm ³) | : 17.63 |
| 30. Barometric Pressure Head in mm of Hg | : 756 mm. of Hg |
| 31. Diameter of the nozzle (mm) | : 12.7 mm |
| 32. Others | : - |

Date of Reporting : 31/08/2023

Ganesh

Scientist

Ampto

Senior Scientist

Copy to : 1. Chief Engineer (O&E)
3. Chief Scientist

2. Chief Engineer (Planning)
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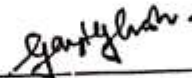
Haldia Regional Laboratory
Raghunathchak, P.O.-Barghasipur, P.S.-Bhabanipur
Haldia, Purba Medinipur - 721 657
Tel: (03224) 291292


Analysis Report of Gaseous Emission

Sample ID : 250820230258

| | |
|----------------------------------------------------------------|------------------------------------------------------------------------|
| 1. Name of Industry | : M/s. Orissa Metalliks Pvt. Ltd. (Unit-I) |
| 2. Address | : Vill-Gokulpur, P.O.- Shyamraipur, Kharagpur, Dist- Paschim Medinipur |
| 3. Category & Type | : Red/Sponge Iron unit |
| 4. Sampling Date | : 24/08/2023 |
| 5. Sampled collected by | : P. Mukherjee (JEE), HRO |
| 6. Thimble Number | : 614 |
| 7. Name of WBPCB Recognized Laboratory | : M/s. Enviro Cell Laboratory |
| 8. Duration of Sampling | : 25 min |
| 9. Height of Stack from ground (m) | : 52.0 |
| 10. Cross section of stack at sampling point (m ²) | : 3.14 |
| 11. Stack connected to | : Rotary Kiln No.-3 & 4 through WHRB (Attached with common stack) |
| 12. Emission source (Furnace / Boiler) | : Combustion of Coal & Reduction of Iron ore |
| 13. Average operational hours of boiler/furnace (per month) | : 720 hrs./month |
| 14. APC System (if any) | : ESP |
| 15. Working load of source (MT/hr.) | : 100 TPD (each Kiln) |
| 16. Fuel used | : Coal |
| 17. Rated Fuel consumption (Kg or L/hr.) | : Coal-5.2 TPH(each Kiln); Iron ore-6.7 TPH(each kiln) |
| 18. Working Fuel consumption (Kg or L/hr.) | : Coal-5.2 TPH(each Kiln); Iron ore-6.7 TPH(each kiln) |
| 19. Nature of Furnace / Boiler | : Rotary Kiln |
| 20. Flue Gas Temp (°C) | : 139.0 |
| 21. Flue gas velocity (m/sec) | : 6.33 |
| 22. Volume of Flue gas drawn in lit (m ³) | : 1.0 |
| 23. Corrected flue gas volume (Nm ³) | : 0.9497 |
| 24. Percentage CO ₂ and or O ₂ | : CO ₂ -9.8% & O ₂ -9.6% |
| 25. To be compensated at (% if required) | : At 12% CO ₂ |
| 26. Initial weight of Thimble (g) | : 1.4328 |
| 27. Final weight of Thimble (g) | : 1.4453 |
| 28. Weight of Particulate Matter (mg) | : 12.50 |
| 29. Particulate Matter (mg/Nm ³) | : 16.12 |
| 30. Barometric Pressure Head in mm of Hg | : 756 mm of Hg |
| 31. Diameter of the nozzle (mm) | : 12.7 mm |
| 32. Others | : - |

Date of Reporting : 31/08/2023


Scientist


Senior Scientist

Copy to : 1. Chief Engineer (O&E)
3. Chief Scientist

2. Chief Engineer (Planning)
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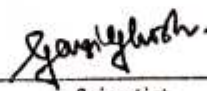
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Haldia, Purba Medinipur - 721 657
Tel: (03224) 291292

Analysis Report of Gaseous Emission

Sample ID : 260520230080

| | |
|----------------------------------------------------------------|------------------------------------------------------------|
| 1. Name of Industry | : M/s. Orissa Metaliks Pvt Ltd. (Unit-I) |
| 2. Address | : Vill-Gokulpur, Shyamraipur, Kharagpur, Paschim Medinipur |
| 3. Category & Type | : Red |
| 4. Sampling Date | : 23/05/2023 |
| 5. Sampled collected by | : N. C. Barai(AEE), HRO |
| 6. Thimble Number | : 439 |
| 7. Name of WBPCB Recognized Laboratory | : M/s. R. V. Briggs & Co. (P) Ltd. |
| 8. Duration of Sampling | : 42 min |
| 9. Height of Stack from ground (m) | : 60.0 |
| 10. Cross section of stack at sampling point (m ²) | : 3.2955 |
| 11. Stack connected to | : Rotary Kiln-9 through WHRB |
| 12. Emission source (Furnace / Boiler) | : Combustion of Coal & Pellet |
| 13. Average operational hours of boiler/furnace (per month) | : 720 hr./month |
| 14. APC System (if any) | : ESP |
| 15. Working load of source (MT/hr.) | : 470 TPD |
| 16. Fuel used | : Coal & Pellet |
| 17. Rated Fuel consumption (Kg or L/hr.) | : - |
| 18. Working Fuel consumption (Kg or L/hr.) | : 28 TPH (Iron) & Coal-27.1 TPH |
| 19. Nature of Furnace / Boiler | : Rotary Kiln |
| 20. Flue Gas Temp (°C) | : 176.0 |
| 21. Flue gas velocity (m/sec) | : 7.79 |
| 22. Volume of Flue gas drawn in lit (m ³) | : 1.008 |
| 23. Corrected flue gas volume (Nm ³) | : 0.8672 |
| 24. Percentage CO ₂ and or O ₂ | : CO ₂ -10.8% & O ₂ -9.2% |
| 25. To be compensated at (% , if required) | : At 12% CO ₂ |
| 26. Initial weight of Thimble (g) | : 1.5059 |
| 27. Final weight of Thimble (g) | : 1.5209 |
| 28. Weight of Particulate Matter (mg) | : 15.00 |
| 29. Particulate Matter (mg/Nm ³) | : 19.22 |
| 30. Barometric Pressure Head in mm of Hg | : 756 mm of Hg |
| 31. Diameter of the nozzle (mm) | : 9.52 mm |
| 32. Others | : - |

Date of Reporting : 30/05/2023


Scientist


Senior Scientist

Copy to : 1. Chief Engineer (O&E) 2. Chief Engineer (Planning)
3. Chief Scientist 4. Haldia Regional Office (2 copies)



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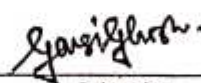
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Raghunathchak, P.O.-Barghasipur, P.S.-Bhabanipur
Haldia, Purba Medinipur - 721 657
Tel: (03224) 291292

Analysis Report of Gaseous Emission


Sample ID : 260520230081

| | |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 1. Name of Industry | : M/s. Orissa Metaliks Pvt. Ltd. (Unit-I) |
| 2. Address | : Vill-Gokulpur, Shyamraipur, Kharagpur, Paschim Medinipur |
| 3. Category & Type | : Red/Integrated Steel Plant |
| 4. Sampling Date | : 23/05/2023 |
| 5. Sampled collected by | : N. C. Barai(AEE), HRO |
| 6. Thimble Number | : 440 |
| 7. Name of WBPCB Recognized Laboratory | : M/s. R. V. Briggs & Co. (P) Ltd. |
| 8. Duration of Sampling | : 34 min |
| 9. Height of Stack from ground (m) | : 60.0 |
| 10. Cross section of stack at sampling point (m ²) | : 8.2991 |
| 11. Stack connected to | : Rotary Kiln 7 & 8 Through WHRB (attached with Common Stack) |
| 12. Emission source (Furnace / Boiler) | : Combustion of Coal |
| 13. Average operational hours of boiler/furnace (per month) | : 720 hr./month |
| 14. APC System (if any) | : ESP |
| 15. Working load of source (MT/hr.) | : Kiln No.7-320 TPD & Kiln No.8-580 TPD |
| 16. Fuel used | : Coal |
| 17. Rated Fuel consumption (Kg or L/hr.) | : - |
| 18. Working Fuel consumption (Kg or L/hr.) | : Kiln No.8-32.5 TPH(Coal), 33.0 TPH(Pellet); Kiln no.7- 17.8 TPH(Coal),18.5 TPH(Pellet) |
| 19. Nature of Furnace / Boiler | : Rotary Kiln |
| 20. Flue Gas Temp (°C) | : 152.0 |
| 21. Flue gas velocity (m/sec) | : 8.51 |
| 22. Volume of Flue gas drawn in lit (m ³) | : 1.064 |
| 23. Corrected flue gas volume (Nm ³) | : 0.9153 |
| 24. Percentage CO ₂ and or O ₂ | : CO ₂ -11.2% & O ₂ -8.6% |
| 25. To be compensated at (% , if required) | : At 12% CO ₂ |
| 26. Initial weight of Thimble (g) | : 1.3857 |
| 27. Final weight of Thimble (g) | : 1.3992 |
| 28. Weight of Particulate Matter (mg) | : 13.50 |
| 29. Particulate Matter (mg/Nm ³) | : 15.80 |
| 30. Barometric Pressure Head in mm of Hg | : 756 mm of Hg |
| 31. Diameter of the nozzle (mm) | : 9.52 mm |
| 32. Others | : - |

Date of Reporting : 30/05/2023



Scientist



Senior Scientist

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2. Chief Engineer (Planning)
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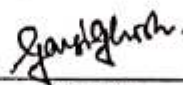
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Raghunathchak, P.O.-Barghasipur, P.S.-Bhabanipur
Haldia, Purba Medinipur - 721 657
Tel: (03224) 291292


Analysis Report of Gaseous Emission

Sample ID : 260520230082

| | |
|----------------------------------------------------------------|--------------------------------------------------------------------|
| 1. Name of Industry | : M/s. Orissa Metaliks Pvt. Ltd. (Unit-I) |
| 2. Address | : Vill-Gokulpur, Shyamraipur, Kharagpur, Paschim Medinipur |
| 3. Category & Type | : Red/Integrated Steel Plant |
| 4. Sampling Date | : 23/05/2023 |
| 5. Sampled collected by | : N. C. Barai(AEE), HRO |
| 6. Thimble Number | : 441 |
| 7. Name of WBPCB Recognized Laboratory | : M/s. R. V. Briggs & Co. (P) Ltd. |
| 8. Duration of Sampling | : 34 min |
| 9. Height of Stack from ground (m) | : 52.0 |
| 10. Cross section of stack at sampling point (m ²) | : 3.1429 |
| 11. Stack connected to | : Rotary Kiln-3 & 4 through WHRB (attached with Common Stack) each |
| 12. Emission source (Furnace / Boiler) | : Oxidation of Coal & reduction of Iron ore |
| 13. Average operational hours of boiler/furnace (per month) | : 720 hr./month |
| 14. APC System (if any) | : ESP |
| 15. Working load of source (MT/hr.) | : Kiln No.3-100 TPD & Kiln No.4-100 TPD |
| 16. Fuel used | : Coal + Iron ore |
| 17. Rated Fuel consumption (Kg or L/hr.) | : - |
| 18. Working Fuel consumption (Kg or L/hr.) | : Coal-5.2 TPH, Iron ore-6.7 TPH |
| 19. Nature of Furnace / Boiler | : Rotary Kiln |
| 20. Flue Gas Temp (°C) | : 144.0 |
| 21. Flue gas velocity (m/sec) | : 9.54 |
| 22. Volume of Flue gas drawn in lit (m ³) | : 1.020 |
| 23. Corrected flue gas volume (Nm ³) | : 0.8746 |
| 24. Percentage CO ₂ and or O ₂ | : CO ₂ -12.8% & O ₂ -7.2% |
| 25. To be compensated at (% if required) | : At 12% CO ₂ |
| 26. Initial weight of Thimble (g) | : 1.4718 |
| 27. Final weight of Thimble (g) | : 1.4845 |
| 28. Weight of Particulate Matter (mg) | : 12.70 |
| 29. Particulate Matter (mg/Nm ³) | : 13.61 |
| 30. Barometric Pressure Head in mm of Hg | : 756 mm of Hg |
| 31. Diameter of the nozzle (mm) | : 9.52 mm |
| 32. Others | : - |

Date of Reporting : 30/05/2023


Scientist


Senior Scientist

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3. Chief Scientist

2. Chief Engineer (Planning)
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Haldia Regional Laboratory
Raghunathchak, P.O.-Barghasipur, P.S.-Bhabanipur
Haldia, Purba Medinipur – 721 657
Tel: (03224) 291292

Analysis Report of Gaseous Emission

Sample ID : 260520230083

| | |
|----------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1. Name of Industry | : M/s. Orissa Metaliks Pvt. Ltd. (Unit-I) |
| 2. Address | : Vill-Gokulpur, Shyamraipur, Kharagpur, Paschim Medinipur |
| 3. Category & Type | : Red/Integrated Steel Plant |
| 4. Sampling Date | : 23/05/2023 |
| 5. Sampled collected by | : N. C. Barai(AEE), HRO |
| 6. Thimble Number | : 444 |
| 7. Name of WBPCB Recognized Laboratory | : M/s. R. V. Briggs & Co. (P) Ltd. |
| 8. Duration of Sampling | : 35 min |
| 9. Height of Stack from ground (m) | : 52.0 |
| 10. Cross section of stack at sampling point (m ²) | : 3.1429 |
| 11. Stack connected to | : Rotary Kiln-1 & 2 through WHRB (attached with Common Stack) each capacity 100 TPD |
| 12. Emission source (Furnace / Boiler) | : Oxidation of Coal & reduction of Iron ore |
| 13. Average operational hours of boiler/furnace (per month) | : 720 hr./month |
| 14. APC System (if any) | : ESP |
| 15. Working load of source (MT/hr.) | : 100 TPD each |
| 16. Fuel used | : Coal |
| 17. Rated Fuel consumption (Kg or L/hr.) | : - |
| 18. Working Fuel consumption (Kg or L/hr.) | : Coal-5.2 TPH, Iron ore-6.7 TPH |
| 19. Nature of Furnace / Boiler | : Rotary Kiln |
| 20. Flue Gas Temp (°C) | : 140.0 |
| 21. Flue gas velocity (m/sec) | : 9.33 |
| 22. Volume of Flue gas drawn in lit (m ³) | : 1.050 |
| 23. Corrected flue gas volume (Nm ³) | : 0.9003 |
| 24. Percentage CO ₂ and or O ₂ | : CO ₂ -11.4% & O ₂ -8.6% |
| 25. To be compensated at (% if required) | : At 12% CO ₂ |
| 26. Initial weight of Thimble (g) | : 1.5138 |
| 27. Final weight of Thimble (g) | : 1.5380 |
| 28. Weight of Particulate Matter (mg) | : 24.20 |
| 29. Particulate Matter (mg/Nm ³) | : 28.29 |
| 30. Barometric Pressure Head in mm of Hg | : 756 mm of Hg |
| 31. Diameter of the nozzle (mm) | : 9.52 mm |
| 32. Others | : - |

Date of Reporting : 30/05/2023

[Signature]
Scientist

[Signature]
Senior Scientist

Copy to : 1. Chief Engineer (O&E)
3. Chief Scientist

2. Chief Engineer (Planning)
4. Haldia Regional Office (2 copies)



WEST BENGAL POLLUTION CONTROL BOARD

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Haldia, Purba Medinipur – 721 657
Tel: (03224) 291292

Analysis Report of Gaseous Emission

Sample ID : 260520230084

| | |
|----------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1. Name of Industry | : M/s. Orissa Metaliks Pvt. Ltd. (Unit-I) |
| 2. Address | : Vill-Gokulpur, Shyamraipur, Kharagpur, Paschim Medinipur |
| 3. Category & Type | : Red/Integrated Steel Plant |
| 4. Sampling Date | : 24/05/2023 |
| 5. Sampled collected by | : S. Mukherjee(JEE), HRO |
| 6. Thimble Number | : 445 |
| 7. Name of WBPCB Recognized Laboratory | : M/s. R. V. Briggs & Co. (P) Ltd. |
| 8. Duration of Sampling | : 30 min |
| 9. Height of Stack from ground (m) | : 52.0 |
| 10. Cross section of stack at sampling point (m ²) | : 3.8029 |
| 11. Stack connected to | : CFBC Boiler (100 TPH) |
| 12. Emission source (Furnace / Boiler) | : Combustion of Coal & Dolochar |
| 13. Average operational hours of boiler/furnace (per month) | : 720 hr./month |
| 14. APC System (if any) | : ESP |
| 15. Working load of source (MT/hr.) | : 90 TPD each |
| 16. Fuel used | : Coal + Dolochar |
| 17. Rated Fuel consumption (Kg or L /hr.) | : - |
| 18. Working Fuel consumption (Kg or L /hr.) | : Coal-11.0 TPH, Dolochar-11.0 TPH |
| 19. Nature of Furnace / Boiler | : CFBC boiler |
| 20. Flue Gas Temp (°C) | : 110.0 |
| 21. Flue gas velocity (m/sec) | : 10.03 |
| 22. Volume of Flue gas drawn in lit (m ³) | : 1.080 |
| 23. Corrected flue gas volume (Nm ³) | : 0.9353 |
| 24. Percentage CO ₂ and or O ₂ | : CO ₂ -11.8% & O ₂ -7.8% |
| 25. To be compensated at (% , if required) | : At 6% CO ₂ |
| 26. Initial weight of Thimble (g) | : 1.3826 |
| 27. Final weight of Thimble (g) | : 1.3998 |
| 28. Weight of Particulate Matter (mg) | : 17.20 |
| 29. Particulate Matter (mg/Nm ³) | : 20.90 |
| 30. Barometric Pressure Head in mm of Hg | : 756 mm of Hg |
| 31. Diameter of the nozzle (mm) | : 9.52 mm |
| 32. Others | : SO ₂ & NO _x (To be done by Recognized Laboratory of WBPCB) |

Date of Reporting : 30/05/2023


Scientist


Senior Scientist

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Haldia, Purba Medinipur - 721 657
Tel: (03224) 291292

Analysis Report of Gaseous Emission

Sample ID : 260520230085

| | |
|----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| 1. Name of Industry | : M/s. Orissa Metalliks Pvt. Ltd. (Unit-I) |
| 2. Address | : VIII-Gokulpur, Shyamraipur, Kharagpur, Paschim Medinipur |
| 3. Category & Type | : Red/Integrated Steel Plant |
| 4. Sampling Date | : 24/05/2023 |
| 5. Sampled collected by | : S. Mukherjee(JEE), HRO |
| 6. Thimble Number | : 447 |
| 7. Name of WBPCB Recognized Laboratory | : M/s. R. V. Briggs & Co. (P) Ltd. |
| 8. Duration of Sampling | : 35 min |
| 9. Height of Stack from ground (m) | : 52.0 |
| 10. Cross section of stack at sampling point (m ²) | : 3.1429 |
| 11. Stack connected to | : Rotary Kiln-5 & 6 through WHRB (attached with Common Stack) 100 TPD each (only Kiln No. 5 was running) |
| 12. Emission source (Furnace / Boiler) | : Combustion of Coal & reduction of Iron ore |
| 13. Average operational hours of boiler/furnace (per month) | : 720 hr./month |
| 14. APC System (if any) | : ESP |
| 15. Working load of source (MT/hr.) | : 100 TPD each |
| 16. Fuel used | : Coal + Iron ore |
| 17. Rated Fuel consumption (Kg or L/hr.) | : - |
| 18. Working Fuel consumption (Kg or L/hr.) | : Coal-5.2 TPH & Iron Ore-6.7 TPH (each Kiln) |
| 19. Nature of Furnace / Boiler | : Rotary Kiln |
| 20. Flue Gas Temp (°C) | : 130.0 |
| 21. Flue gas velocity (m/sec) | : 8.60 |
| 22. Volume of Flue gas drawn in lit (m ³) | : 1.015 |
| 23. Corrected flue gas volume (Nm ³) | : 0.8761 |
| 24. Percentage CO ₂ and or O ₂ | : CO ₂ -9.2% & O ₂ -10.6% |
| 25. To be compensated at (% if required) | : At 12% CO ₂ |
| 26. Initial weight of Thimble (g) | : 1.5083 |
| 27. Final weight of Thimble (g) | : 1.5189 |
| 28. Weight of Particulate Matter (mg) | : 10.60 |
| 29. Particulate Matter (mg/Nm ³) | : 15.78 |
| 30. Barometric Pressure Head in mm of Hg | : 756 mm of Hg |
| 31. Diameter of the nozzle (mm) | : 9.52 mm |
| 32. Others | : - |

Date of Reporting : 30/05/2023

Gandeyach.

Scientist

Smita

Senior Scientist

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Haldia, Purba Medinipur – 721 657
Tel: (03224) 291292

Analysis Report of Gaseous Emission

Sample ID : 260520230087

| | |
|----------------------------------------------------------------|-------------------------------------------------------------|
| 1. Name of Industry | : M/s. Orissa Metaliks Pvt. Ltd. (Unit-I) |
| 2. Address | : Vill-Gokulpur, Shyamraipur, Kharaggpur, Paschim Medinipur |
| 3. Category & Type | : Red/Integrated Steel Plant |
| 4. Sampling Date | : 24/05/2023 |
| 5. Sampled collected by | : S. Mukherjee(JEE), HRO |
| 6. Thimble Number | : 449 |
| 7. Name of WBPCB Recognized Laboratory | : M/s. R. V. Briggs & Co. (P) Ltd. |
| 8. Duration of Sampling | : 34 min |
| 9. Height of Stack from ground (m) | : 30.0 |
| 10. Cross section of stack at sampling point (m ²) | : 0.5029 |
| 11. Stack connected to | : Product House |
| 12. Emission source (Furnace / Boiler) | : Process Activity |
| 13. Average operational hours of boiler/furnace (per month) | : 720 hr./month |
| 14. APC System (if any) | : Bag Filter |
| 15. Working load of source (MT/hr.) | : 20 MTPH |
| 16. Fuel used | : Electricity |
| 17. Rated Fuel consumption (Kg or L/hr.) | : - |
| 18. Working Fuel consumption (Kg or L/hr.) | : - |
| 19. Nature of Furnace / Boiler | : - |
| 20. Flue Gas Temp (°C) | : 42.0 |
| 21. Flue gas velocity (m/sec) | : 6.76 |
| 22. Volume of Flue gas drawn in lit (m ³) | : 1.020 |
| 23. Corrected flue gas volume (Nm ³) | : 0.8775 |
| 24. Percentage CO ₂ and or O ₂ | : CO ₂ -0.2% & O ₂ -19.6% |
| 25. To be compensated at (% , if required) | : - |
| 26. Initial weight of Thimble (g) | : 1.4150 |
| 27. Final weight of Thimble (g) | : 1.4158 |
| 28. Weight of Particulate Matter (mg) | : 0.80 |
| 29. Particulate Matter (mg/Nm ³) | : 0.91 |
| 30. Barometric Pressure Head in mm of Hg | : 756 mm of Hg |
| 31. Diameter of the nozzle (mm) | : 9.52 mm |
| 32. Others | : - |

Date of Reporting : 30/05/2023

Sandeep Kumar

Scientist

Amrita

Senior Scientist





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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-11003

TEST REPORT OF FUGITIVE AIR ANALYSIS

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

Sample is drawn by M/s. Greenvision

Report No. : GV/AR/23-24/213
 Name of Customer : M/s. Orissa Metaliks Pvt. Ltd. (I)
 Address of Customer : Mouza : Mathurakismat, Gokulpur,
 Dist. : Paschim Medinipur, Pin : 721301, W.B.
 Sample Description : Fugitive Air
 Sampling Location : DRI Plant Area
 Sample Condition : In GMF Filter Paper & Plastic Bottle
 Location of Testing : At Laboratory
 Sampling Method : CPCB, Emission Regulation (Part III)

U.L.R. No. : TC1100323000000403F

Sample Ref. ID : AS-154-2023(2)
 Report Date : 29.09.2023
 Date of Sampling : 14.09.2023
 Date of Receiving : 16.09.2023
 Analysis Started On : 18.09.2023
 Analysis Completed On : 19.09.2023
 Time of Sampling : 09:05 am to
 05:05 pm

A. METROLOGICAL INFORMATION

Average Temperature ($^{\circ}$ C) : 33.0
 Barometric Pressure (mm of Hg) : 756.0

B. RESULT OF ANALYSIS

| Sl. No. | Parameters | Unit | Concentration | Test Method |
|---------|--------------------------------|--------------------------|---------------|-------------------------|
| 01. | Concentration of TSPM | $\mu\text{g}/\text{m}^3$ | 589.48 | IS : 5182 (Part 4),1999 |
| 02. | Concentration of SO_2 | $\mu\text{g}/\text{m}^3$ | 8.78 | IS : 5182 (Part 2),2006 |
| 03. | Concentration of NO_2 | $\mu\text{g}/\text{m}^3$ | 38.83 | IS : 5182 (Part 6),2006 |

Limit : ($\mu\text{g}/\text{m}^3$) TSPM – 2000, SO_2 – 80, NO_2 – 80

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

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



TEST REPORT OF FUGITIVE AIR ANALYSIS

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

Sample is drawn by M/s. Greenvision

Report No. : GV/AR/23-24/216
Name of Customer : M/s. Orissa Metaliks Pvt. Ltd. (I)
Address of Customer : Mouza : Mathurakismat, Gokulpur,
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)

U.L.R. No. : TC110032300000404F

Sample Ref. ID : AS-154-2023(5)
Report Date : 29.09.2023
Date of Sampling : 15.09.2023
Date of Receiving : 16.09.2023
Analysis Started On : 18.09.2023
Analysis Completed On : 19.09.2023
Time of Sampling : 08:40 am to
04:40 pm

A. METROLOGICAL INFORMATION

Average Temperature (°C) : 33.2
Barometric Pressure (mm of Hg) : 756.0

B. RESULT OF ANALYSIS

| Sl. No. | Parameters | Unit | Concentration | Test Method |
|---------|----------------------------------|--------------------------|---------------|-------------------------|
| 01. | Concentration of TSPM | $\mu\text{g}/\text{m}^3$ | 527.32 | 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 | $\mu\text{g}/\text{m}^3$ | 38.83 | 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. : TC1100323000000405F

Report No. : GV/AR/23-24/217

Sample Ref. ID : AS-154-2023(6)

Name of Customer : M/s. Orissa Metaliks Pvt. Ltd. (I)

Report Date : 29.09.2023

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

Date of Sampling : 15.09.2023

Sample Description : Fugitive Air

Date of Receiving : 16.09.2023

Sampling Location : Near Product House

Analysis Started On : 18.09.2023

Sample Condition : In GMF Filter Paper & Plastic Bottle

Analysis Completed On : 19.09.2023

Location of Testing : At Laboratory

Time of Sampling : 09:15 am to

Sampling Method : CPCB, Emission Regulation (Part III)

05:15 pm

A. METROLOGICAL INFORMATION

Average Temperature ($^{\circ}$ C) : 33.2

Barometric Pressure (mm of Hg) : 756.0

B. RESULT OF ANALYSIS

| Sl. No. | Parameters | Unit | Concentration | Test Method |
|---------|--------------------------------|--------------------------|---------------|-------------------------|
| 01. | Concentration of TSPM | $\mu\text{g}/\text{m}^3$ | 660.81 | IS : 5182 (Part 4),1999 |
| 02. | Concentration of SO_2 | $\mu\text{g}/\text{m}^3$ | 8.79 | IS : 5182 (Part 2),2006 |
| 03. | Concentration of NO_2 | $\mu\text{g}/\text{m}^3$ | 38.22 | IS : 5182 (Part 6),2006 |

Limit : ($\mu\text{g}/\text{m}^3$) TSPM – 2000, SO_2 – 80, NO_2 – 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. : TC1100323000000406F

Report No. : GV/AR/23-24/218
Name of Customer : M/s. Orissa Metaliks Pvt. Ltd. (I)
Address of Customer : Mouza : Mathurakismat, Gokulpur,
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-154-2023(7)
Report Date : 29.09.2023
Date of Sampling : 15.09.2023
Date of Receiving : 16.09.2023
Analysis Started On : 18.09.2023
Analysis Completed On : 19.09.2023
Time of Sampling : 09:55 am to
05:55 pm

A. METROLOGICAL INFORMATION

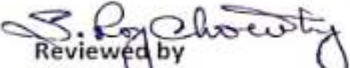
Average Temperature ($^{\circ}\text{C}$) : 33.2
Barometric Pressure (mm of Hg) : 756.0

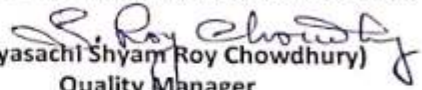
B. RESULT OF ANALYSIS

| Sl. No. | Parameters | Unit | Concentration | Test Method |
|---------|--------------------------------|--------------------------|---------------|-------------------------|
| 01. | Concentration of TSPM | $\mu\text{g}/\text{m}^3$ | 570.19 | 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 | $\mu\text{g}/\text{m}^3$ | 39.44 | IS : 5182 (Part 6),2006 |

Limit : ($\mu\text{g}/\text{m}^3$) TSPM – 2000, SO_2 – 80, NO_2 – 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

Report No. : GV/AR/23-24/219
Name of Customer : M/s. Orissa Metaliks Pvt. Ltd. (I)
Address of Customer : Mouza : Mathurakismat, Gokulpur,
Dist. : Paschim Medinipur, Pin : 721301, W.B.
Sample Description : Fugitive Air
Sampling Location : Fly Ash Silo Area
Sample Condition : In GMF Filter Paper & Plastic Bottle
Location of Testing : At Laboratory
Sampling Method : CPCB, Emission Regulation (Part III)

U.L.R. No. : TC1100323000000407F

Sample Ref. ID : AS-154-2023(8)
Report Date : 29.09.2023
Date of Sampling : 15.09.2023
Date of Receiving : 16.09.2023
Analysis Started On : 18.09.2023
Analysis Completed On : 19.09.2023
Time of Sampling : 10:45 am to
06:45 pm

A. METROLOGICAL INFORMATION

Average Temperature ($^{\circ}\text{C}$) : 33.2
Barometric Pressure (mm of Hg) : 756.0

B. RESULT OF ANALYSIS

| Sl. No. | Parameters | Unit | Concentration | Test Method |
|---------|--------------------------------|--------------------------|---------------|-------------------------|
| 01. | Concentration of TSPM | $\mu\text{g}/\text{m}^3$ | 574.23 | IS : 5182 (Part 4),1999 |
| 02. | Concentration of SO_2 | $\mu\text{g}/\text{m}^3$ | 8.79 | IS : 5182 (Part 2),2006 |
| 03. | Concentration of NO_2 | $\mu\text{g}/\text{m}^3$ | 38.22 | IS : 5182 (Part 6),2006 |

Limit : ($\mu\text{g}/\text{m}^3$) TSPM – 2000, SO_2 – 80, NO_2 – 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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3. Retention period of tested sample (Filter Paper) is 6 months from the date of issue test report unless otherwise specified.



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



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. : TC1100323000000411F

Report No. : GV/SS/23-24/017

Laboratory Ref. No. : SS-009-2023

Issued to : M/s. Orissa Metaliks Pvt. Ltd. (I)

Report Date : 29.09.2023

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

Date of Sampling : 15.09.2023

Sample Description : Slag Sample

Sample Received on : 16.09.2023

Location : Dolochar Dumping Yard

Analysis Started on : 18.09.2023

Sample Condition : In Plastic Pouch

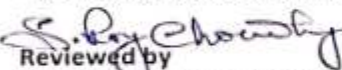
Analysis Completed on : 21.09.2023

Type of Sample : Dolochar

Time of Sampling : 05:00 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 | 0.89 | 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 | 1.46 | 100.0 |
| 06 | Lead as Pb | EPA 200.8 | mg/l | 0.14 | 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


Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager


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

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

| | | | | | | |
|----|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------|---------|----------------------|
| 1 | a) Name of the Project : | M/s. Orissa Metaliks Pvt. Ltd. (Unit-I) - Sponge Iron Plant (6 × 100 + 1 × 350 + 1 × 500 + 1 × 600 TPD)- 7,80,000 TPA along with 83 MW captive power plant (WHRB - 52 Mw + AFBC - 6 MW + CFBC - 25 MW) | | | | |
| | b) Environment Clearance Nos. : | File No. J-11011/229/2007-IA.II(I), Dated: 12/06/2008, 10/12/2008, 12/02/2015, 06/01/2017, 30/08/2018 & 26/12/2019 | | | | |
| 2 | Location, Block/ Sub. Div./ Dist./ State: | Mouza – Mathurakismat & Amba, Village - Gokulpur, P.O. - Shyamraipur, P.S. - Kharagpur, District - Paschim Medinipur, West Bengal | | | | |
| 3 | Address for communication : | 1, Grastin Place, Orbit House, 3rd Floor, Room No - 3B, Kolkata - 700 001 | | | | |
| 4 | Existing Vegetation in the area/ region : | | Industrial Land | | | |
| | a) Species (trees/shrubs/grasses/climbers) | NA | | | | |
| | b) Major prevalent species of each type | NA | | | | |
| 5 | Land Coverage by the project | | | | | |
| | a) Total area under the project | 40 Acres | | | | |
| | b) Area covered for basic infrastructure (roads/building/factory etc.) | 26.8 Acres | | | | |
| 6 | Details about natural vegetation | | Industrial Land | | | |
| | 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 | 13.2 Acres (33%) | | | | |
| 7 | Plantation required to be carried out as per | | | | | |
| | a) Conditions of Environmental Clearance in ha./Nos. | 13.2 Acres (33%) | | | | |
| | b) Conditions for forest act (c) Clearance in ha./Nos. | NA | | | | |
| | c) Voluntary in no. for green belt development in nearby area | --- | | | | |
| 8 | Details of Plantation | | | | | |
| | a) | | Year of Plantation | Species Planted | | Quantity |
| | | | 2023-24 (Till Sept.) | Krishnachura | | 100 |
| | | | | Sonajhuri | | 100 |
| | | | | Yellow Oleander | | 118 |
| | | | | Nerium | | 52 |
| | | | | Areca Palm | | 15 |
| | | | | Conocarpus | | 52 |
| | | | | Sisoo | | 29 |
| | Chhatim | | 34 | | | |
| b) | Plantation Details (Category wise & methodology used) | Before 2020 | 2020-21 | 2021-22 | 2022-23 | 2023-24 (Till Sept.) |
| | | 9500 | 10000 | 3500 | 3265 | 500 |
| | | 7545 | 9300 | 3255 | 3036 | 474 |



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

| | | | | | | |
|----|-------------------------------------------------------------|----------------------------------|-----------|--------------------------|----------------------------------------------------------------------|-----|
| | | -- | 93% | 93% | 93% | 95% |
| 9 | Agency carrying out plantation and maintenance | | | | | |
| 10 | Financial details (year wise) plantation wise and item wise | Survival of Plantation | Year | Funds allocated (Rupees) | Expenditure made including voluntarily tree plantation cost (Rupees) | |
| | | Total seeding / Plantation (No.) | 2023-2024 | 3,50,000 | 1,62,600 | |



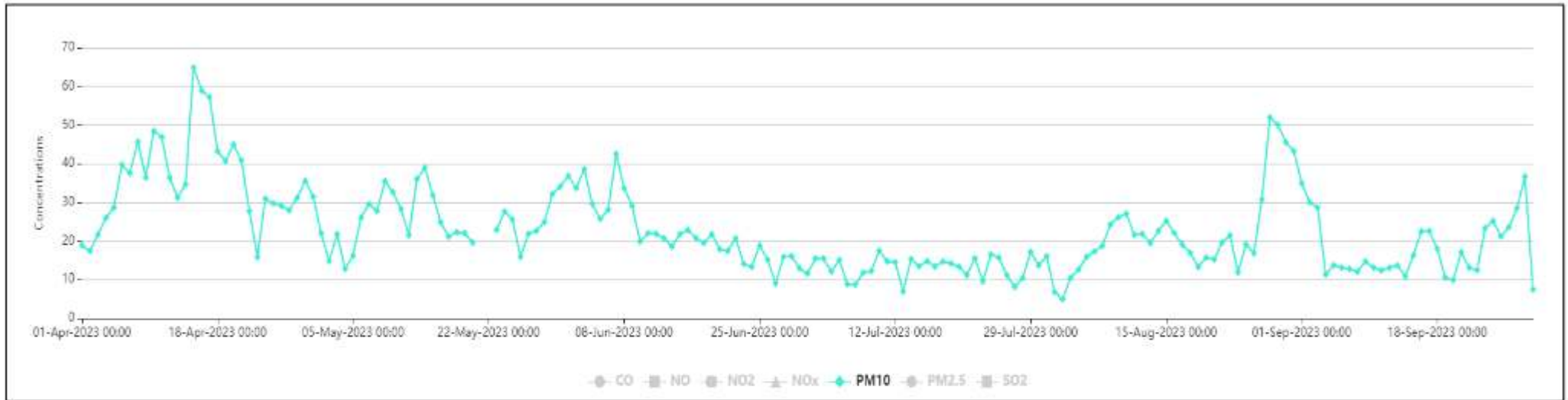
FORMAT FOR PROVIDING PARTICULARS ON GREEN BELT / PLANTATION UNDER E(P) ACT 1986

PHOTOGRAPH

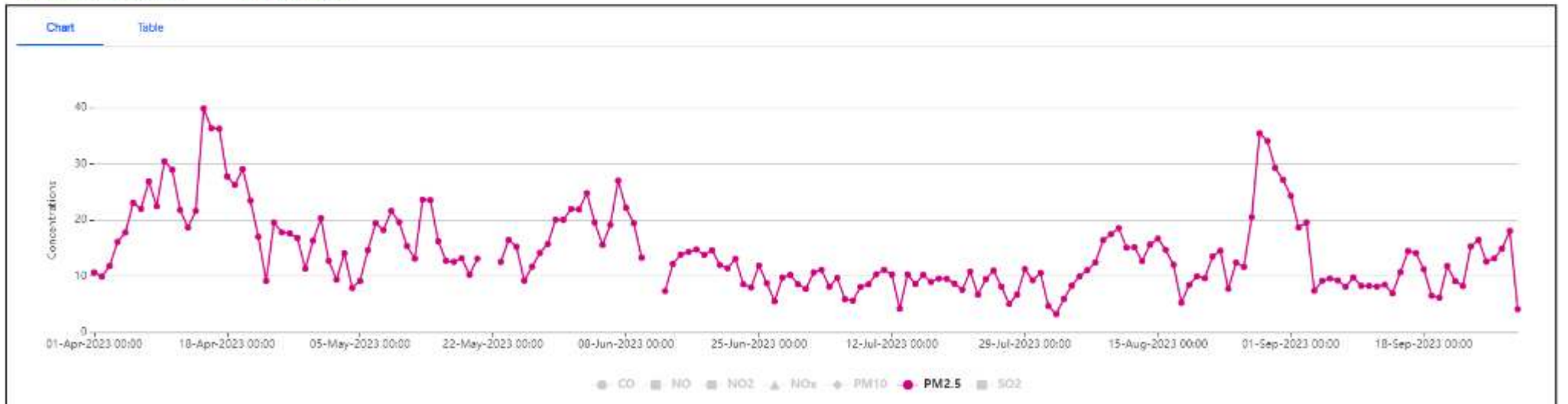


CAAQMS DATA (APRIL 2023 to SEPTEMBER 2023)

Location : Kalyanpur Village
Parameters : PM 10



Location : Kalyanpur Village
Parameters : PM 2.5



CAAQMS DATA (APRIL 2023 to SEPTEMBER 2023)

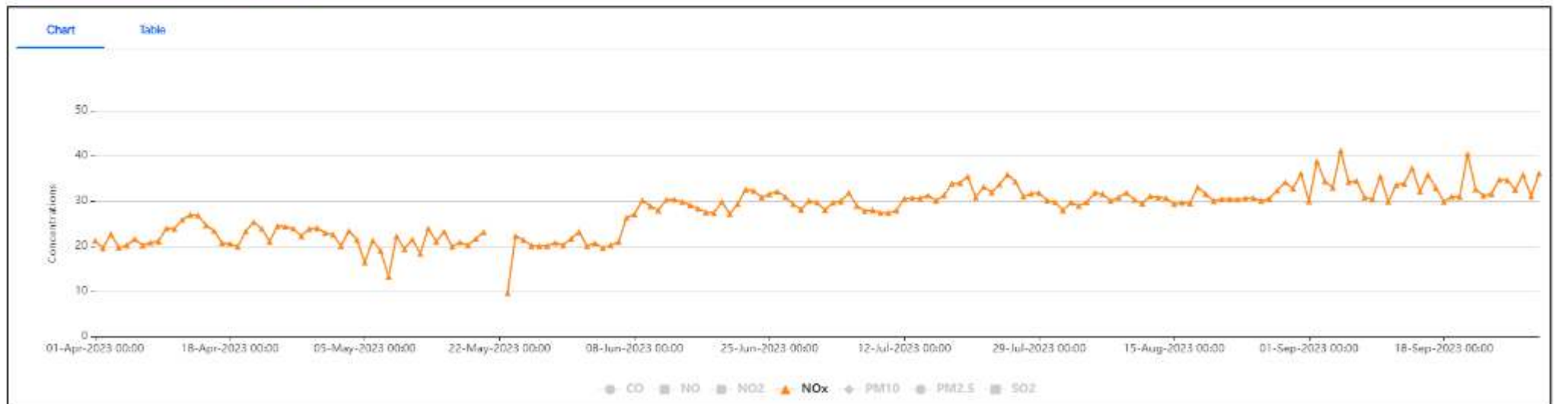
Location : Kalyanpur Village

Parameters : SO₂



Location : Kalyanpur Village

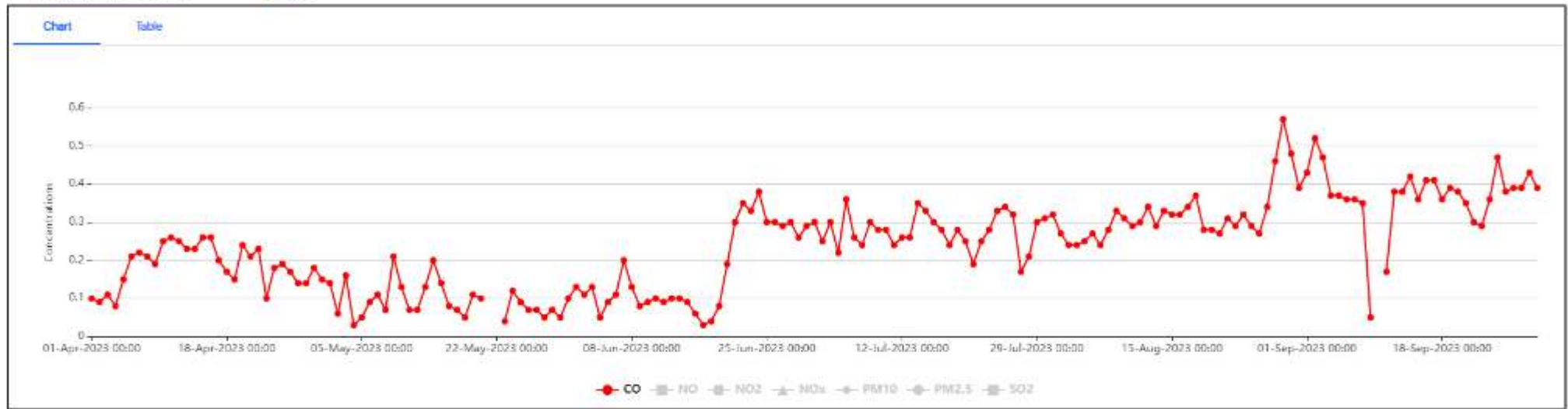
Parameters : NO_x



CAAQMS DATA (APRIL 2023 to SEPTEMBER 2023)

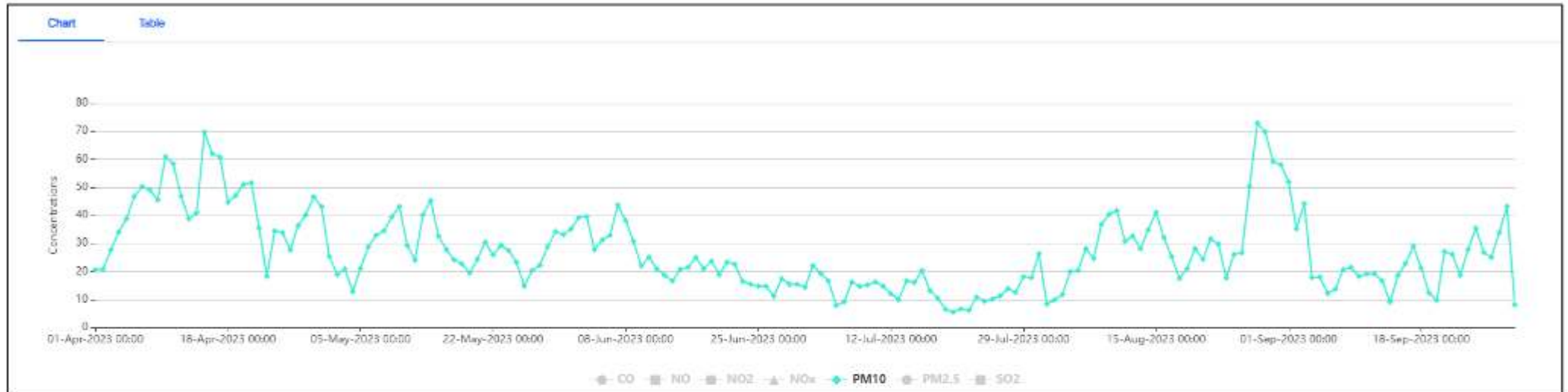
Location : Kalyanpur Village

Parameters : CO

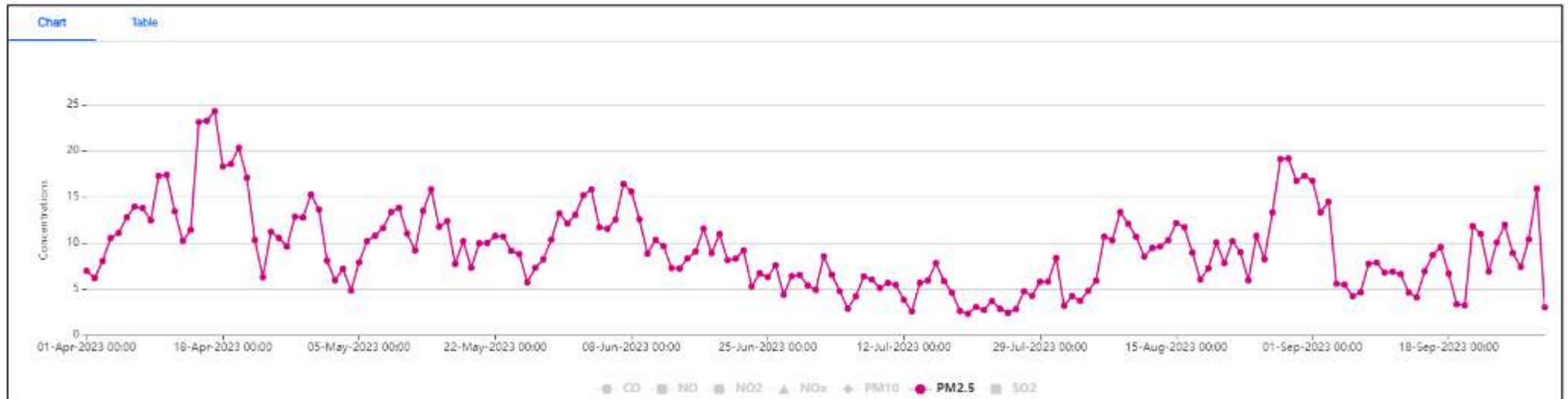


CAAQMS DATA (APRIL 2023 to SEPTEMBER 2023)

Location : Panchrulia Station
Parameters : PM 10



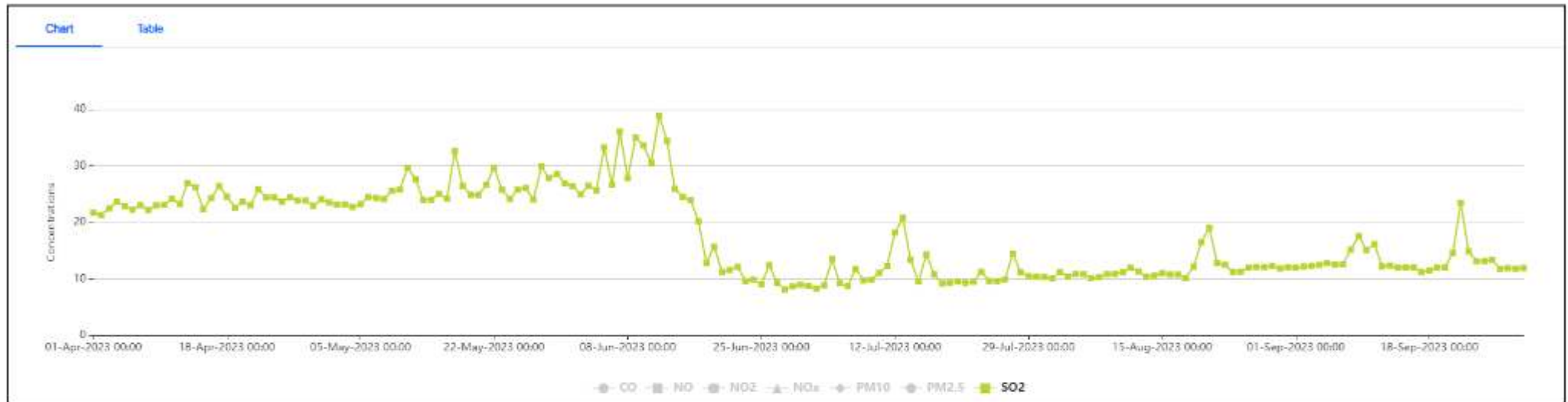
Location : Panchrulia Station
Parameters : PM 2.5



CAAQMS DATA (APRIL 2023 to SEPTEMBER 2023)

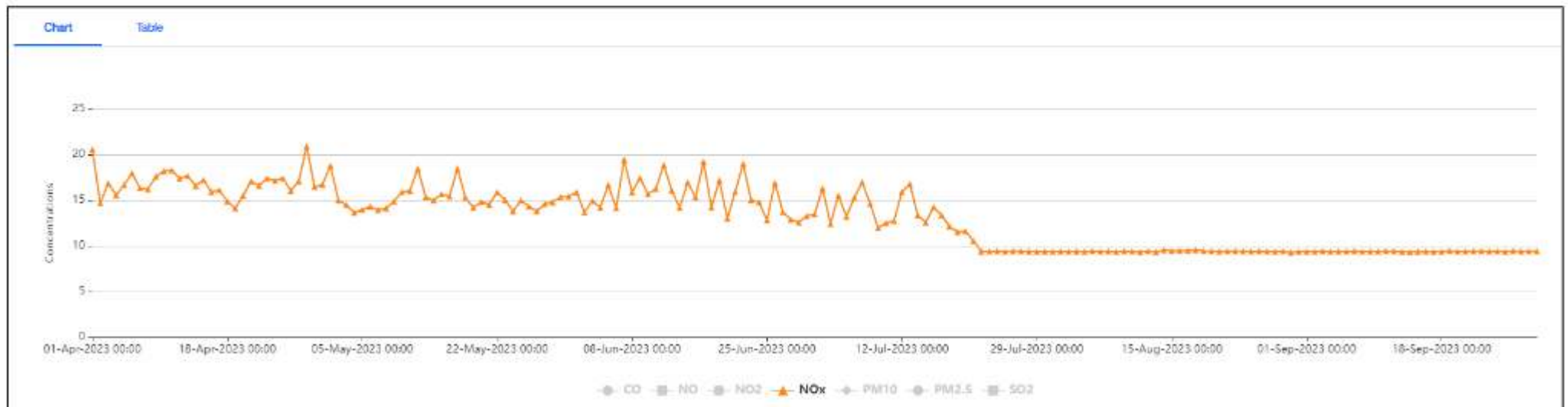
Location : Panchrulia Station

Parameters : SO₂



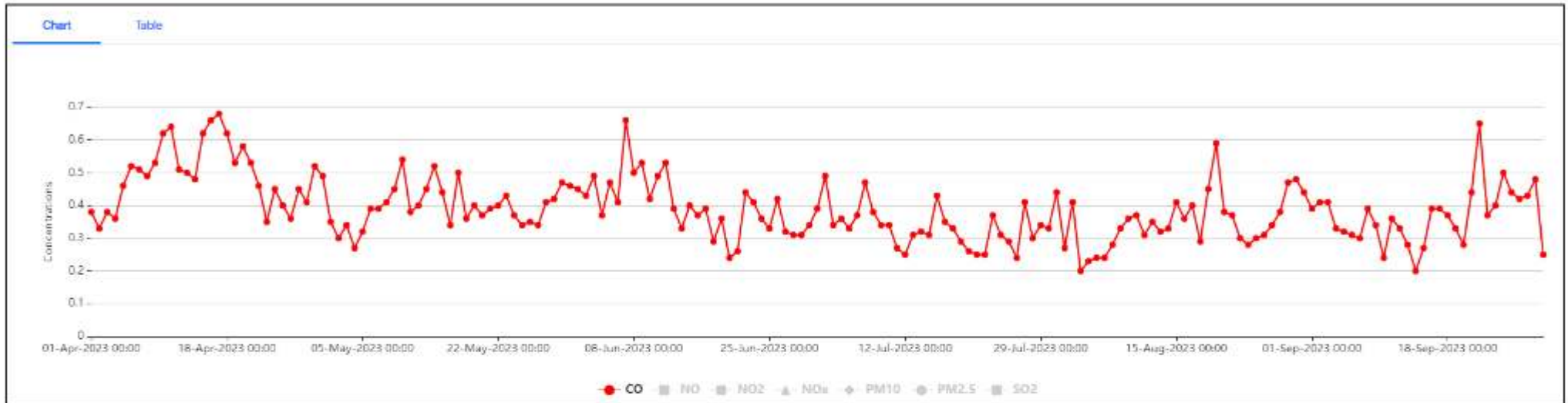
Location : Panchrulia Station

Parameters : NO_x



CAAQMS DATA (APRIL 2023 to SEPTEMBER 2023)

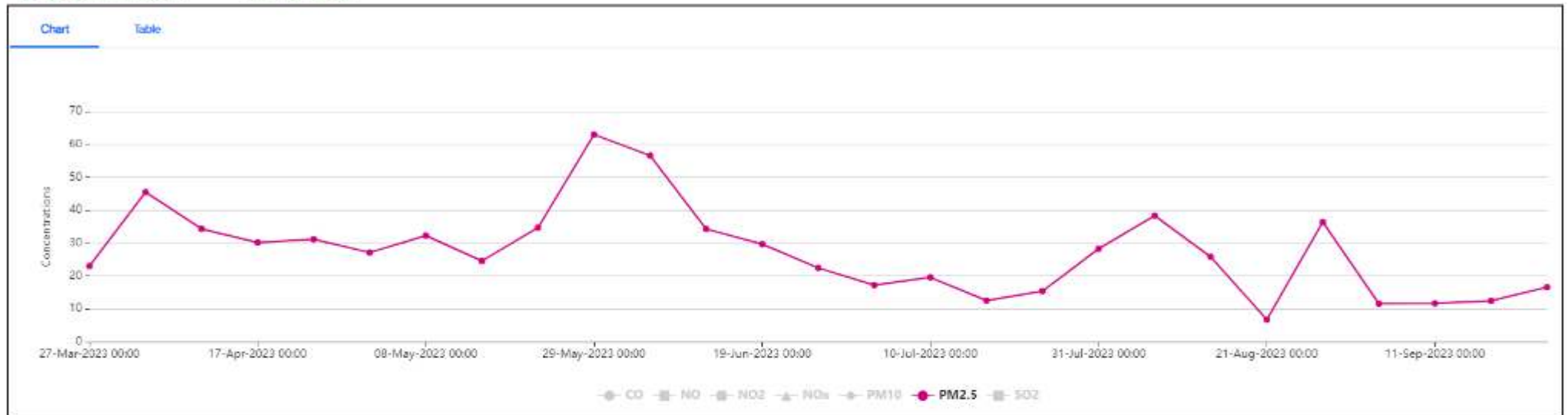
Location : Panchrulia Station
Parameters : CO



CAAQMS DATA (APRIL 2023 to SEPTEMBER 2023)

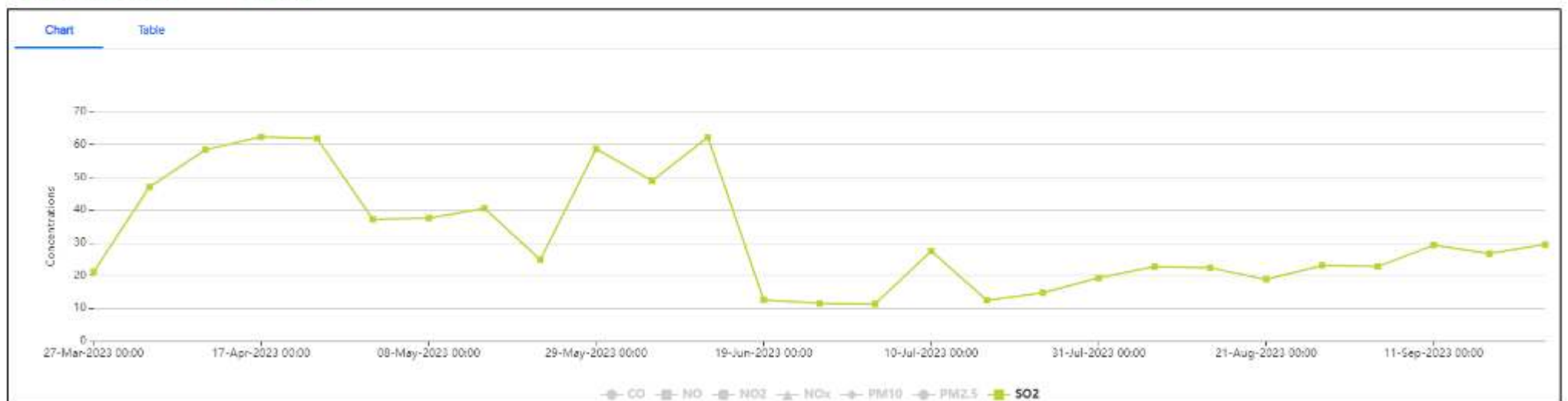
Location : Barkola Station

Parameters : PM 2.5



Location : Barkola Station

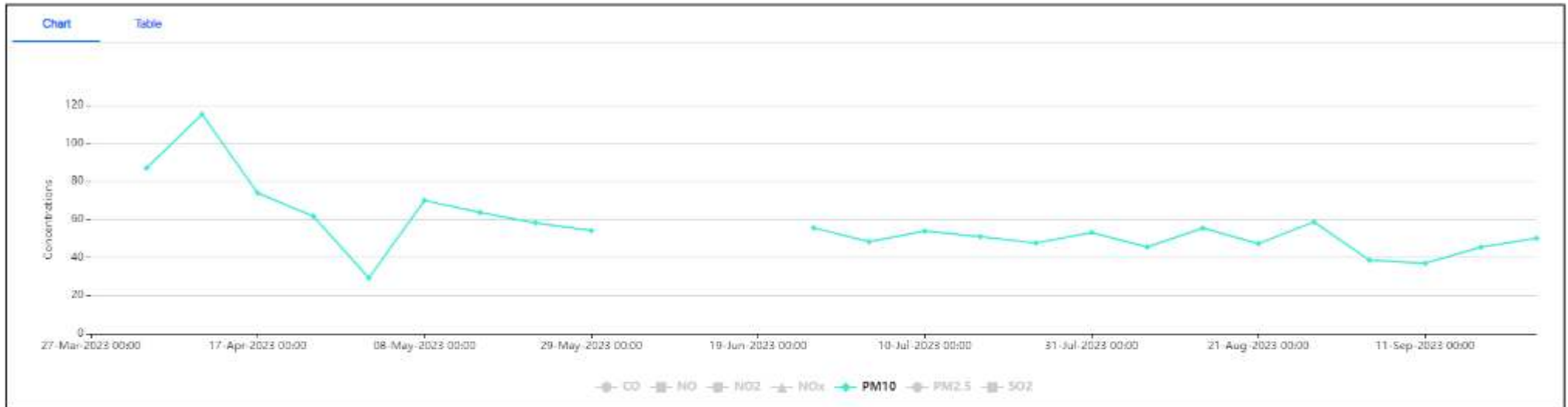
Parameters : SO2



CAAQMS DATA (APRIL 2023 to SEPTEMBER 2023)

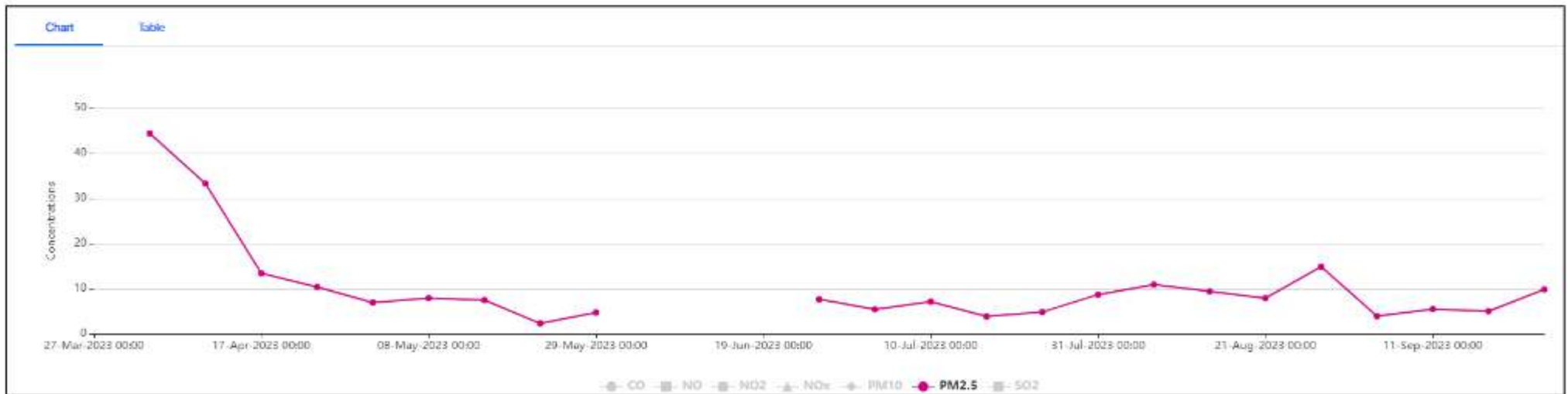
Location : Rajogram Station

Parameters : PM10



Location : Rajogram Station

Parameters : PM2.5

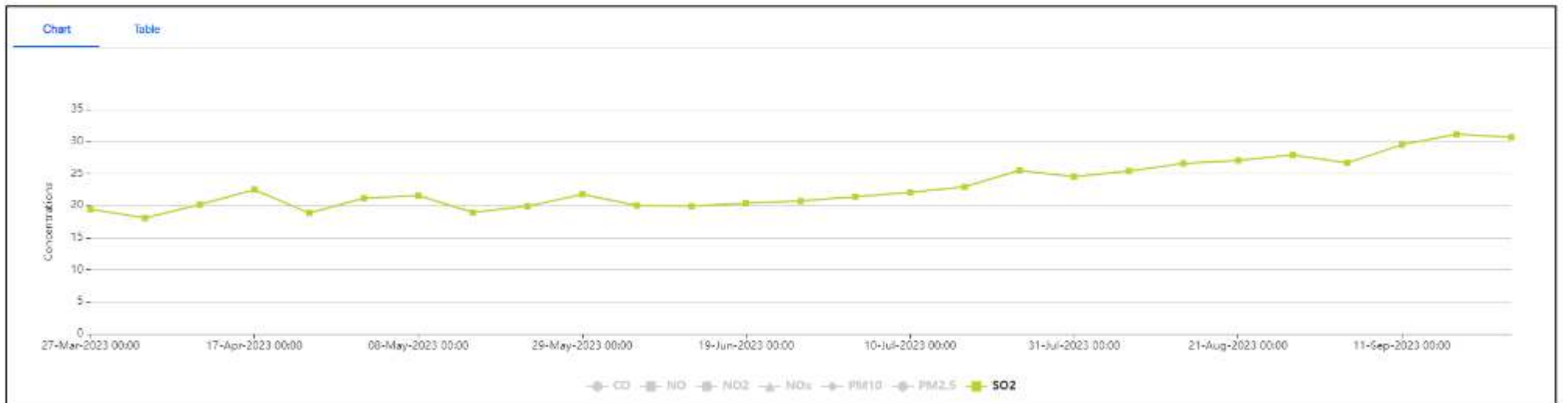


CAAQMS DATA (APRIL 2023 to SEPTEMBER 2023)

Location : Rajogram Station
Parameters : CO



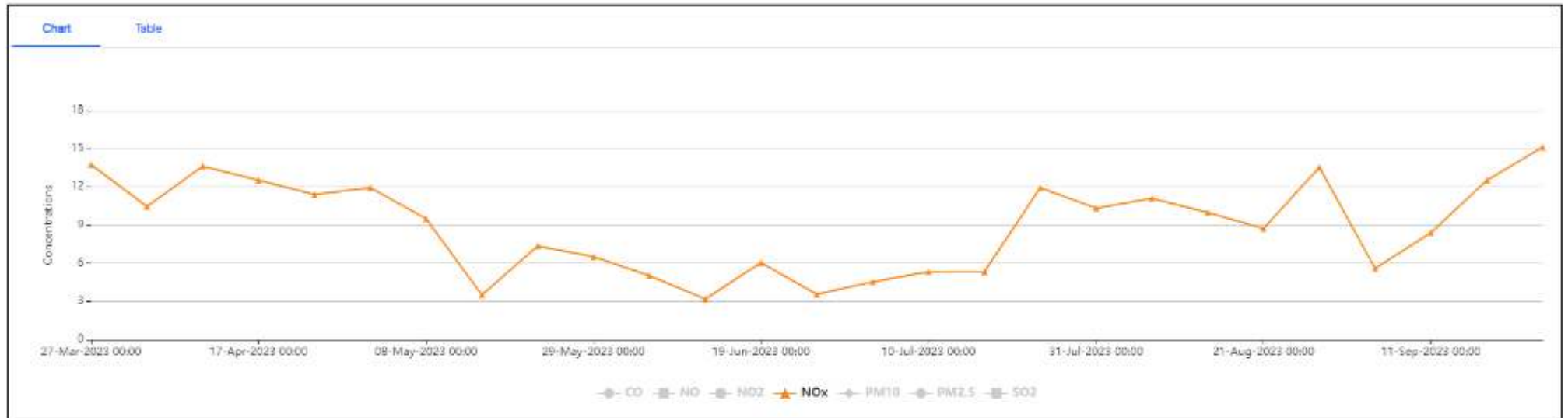
Location : Rajogram Station
Parameters : SO2



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



TEST REPORT OF WATER ANALYSIS

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

Sample is drawn by M/s. Greenvision

Sample submitted and identified by customer as : N.A.

U.L.R. No. : TC1100323000000419F

Report No. : GV/WW/23-24/118

Sample Ref. ID : WS-106-2023(3)

Name of Customer : M/s. Orissa Metaliks Pvt. Ltd. (I)

Report Date : 29.09.2023

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

Date of Sampling : 14.09.2023

Sample Description : Waste Water

Date of Receiving : 16.09.2023

Sampling Location : ETP Inlet

Analysis Started on : 18.09.2023

Sample Condition : In Glass Bottle & Plastic Bottle

Analysis Completed on : 22.09.2023

Type of Sample : Industrial Waste Water

Time of Sampling : 04:05 pm

Testing Location : At Laboratory

Sampling & Preservation Method : APHA 24th EDITION, 1060

| PARAMETERS | TEST METHOD | UNIT | RESULTS |
|---------------------------------|-----------------------------------------|------|---------|
| pH | APHA 24 th EDITION, 4500-H+B | --- | 7.04 |
| Total Suspended Solid(TSS) | APHA 24 th EDITION, 2540 D | mg/l | 97.0 |
| Chemical Oxygen Demand (COD) | APHA 24 th EDITION, 5220 B | mg/l | 84.2 |
| Biochemical Oxygen Demand (BOD) | IS:3025, P-44, 1993, Reaffirmed 2014 | mg/l | 13.78 |
| Oil & Grease | APHA 24 th EDITION, 5520 A | mg/l | 2.32 |

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

Sample is drawn by M/s. Greenvision

Sample submitted and identified by customer as : N.A.

U.L.R. No. : TC1100323000000420F

Report No. : GV/WW/23-24/119.

Sample Ref. ID : WS-106-2023(4)

Name of Customer : M/s. Orissa Metaliks Pvt. Ltd. (I)

Report Date : 29.09.2023

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

Date of Sampling : 14.09.2023

Sample Description : Waste Water

Date of Receiving : 16.09.2023

Sampling Location : ETP Outlet

Analysis Started on : 18.09.2023

Sample Condition : In Glass Bottle & Plastic Bottle

Analysis Completed on : 22.09.2023

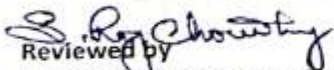
Type of Sample : Industrial Waste Water

Time of Sampling : 04:20 pm

Testing Location : At Laboratory

Sampling & Preservation Method : APHA 24th EDITION, 1060

| PARAMETERS | TEST METHOD | UNIT | RESULTS |
|---------------------------------|-----------------------------------------|------|---------|
| pH | APHA 24 th EDITION, 4500-H+B | --- | 6.74 |
| Total Suspended Solid(TSS) | APHA 24 th EDITION, 2540 D | mg/l | 28.0 |
| Chemical Oxygen Demand (COD) | APHA 24 th EDITION, 5220 B | mg/l | 42.4 |
| Biochemical Oxygen Demand (BOD) | IS:3025, P-44, 1993, Reaffirmed 2014 | mg/l | 6.88 |
| Oil & Grease | APHA 24 th EDITION, 5520 A | mg/l | < 2.0 |


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 WATER ANALYSIS

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

Sample is drawn by M/s. Greenvision

Sample submitted and identified by customer as : N.A.

U.L.R. No. : TC1100323000000417F

Report No. : GV/WW/23-24/116

Sample Ref. ID : WS-106-2023(1)

Name of Customer : M/s. Orissa Metaliks Pvt. Ltd. (I)

Report Date : 29.09.2023

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

Date of Sampling : 14.09.2023

Sample Description : Waste Water

Date of Receiving : 16.09.2023

Sampling Location : STP Inlet

Analysis Started on : 18.09.2023

Sample Condition : In Glass Bottle & Plastic Bottle

Analysis Completed on : 22.09.2023

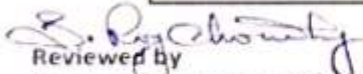
Type of Sample : Industrial Waste Water

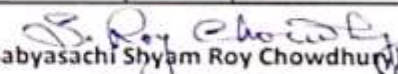
Time of Sampling : 03:00 pm

Testing Location : At Laboratory

Sampling & Preservation Method : APHA 24th EDITION, 1060

| PARAMETERS | TEST METHOD | UNIT | RESULTS |
|---------------------------------|-----------------------------------------|------|---------|
| pH | APHA 24 th EDITION, 4500-H+B | --- | 7.31 |
| Total Suspended Solid(TSS) | APHA 24 th EDITION, 2540 D | mg/l | 82.0 |
| Chemical Oxygen Demand (COD) | APHA 24 th EDITION, 5220 B | mg/l | 126.36 |
| Biochemical Oxygen Demand (BOD) | IS:3025, P-44, 1993, Reaffirmed 2014 | mg/l | 20.7 |
| Oil & Grease | APHA 24 th EDITION, 5520 A | mg/l | 3.0 |


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

Sample is drawn by M/s. Greenvision

Sample submitted and identified by customer as : N.A.

U.L.R. No. : TC110032300000418F

Report No. : GV/WW/23-24/117

Sample Ref. ID : WS-106-2023(2)

Name of Customer : M/s. Orissa Metaliks Pvt. Ltd. (I)

Report Date : 29.09.2023

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

Date of Sampling : 14.09.2023

Sample Description : Waste Water

Date of Receiving : 16.09.2023

Sampling Location : STP Outlet

Analysis Started on : 18.09.2023

Sample Condition : In Glass Bottle & Plastic Bottle

Analysis Completed on : 22.09.2023

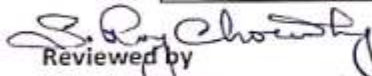
Type of Sample : Industrial Waste Water

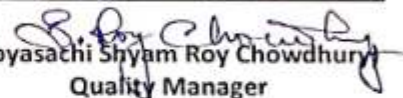
Time of Sampling : 03:30 pm

Testing Location : At Laboratory

Sampling & Preservation Method : APHA 24th EDITION, 1060

| PARAMETERS | TEST METHOD | UNIT | RESULTS |
|---------------------------------|-----------------------------------------|------|---------|
| pH | APHA 24 th EDITION, 4500-H+B | --- | 6.86 |
| Total Suspended Solid(TSS) | APHA 24 th EDITION, 2540 D | mg/l | 24.4 |
| Chemical Oxygen Demand (COD) | APHA 24 th EDITION, 5220 B | mg/l | 48.6 |
| Biochemical Oxygen Demand (BOD) | IS:3025, P-44, 1993, Reaffirmed 2014 | mg/l | 8.23 |
| Oil & Grease | APHA 24 th EDITION, 5520 A | mg/l | 2.4 |


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. : TC1100323000000416F

| | | | |
|-----------------------|--------------------------------------------------------------------------------------|---------------------|---------------|
| Sample is drawn by | : Mr. Uttam Kr. Sil, Field Sampler | Laboratory Ref. No. | : DS-005-2023 |
| Sample identification | : Nil | Report Date | : 29.09.2023 |
| Report No. | : GV/DW/OMP/23-24/001 | Date of Sampling | : 15.09.2023 |
| Issued To | : M/s. Orissa Metaliks Pvt. Ltd. (I) | | |
| Address | : Mouza : Mathurakismat, Gokulpur, Dist. : Paschim Medinipur, Pin : 721301, W.B.. | | |
| Sample Condition | : In Glass Bottle & Plastic Bottle | Sample Received on | : 16.09.2023 |
| Sample Description | : Drinking Water | Analysis Started on | : 18.09.2023 |
| Sampling Method | : APHA 24 th EDITION, 1060 | Analysis Completed | : 25.09.2023 |
| Location | : Tap Near DRI Plant | Time of Sampling | : 05:05 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) | - | 7.34 | 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. | 0.59 | 1 | 5 | 2130 B |
| 6. | Conductivity | µS/cm | 363.0 | - | - | 2510 B |
| 7. | Total Dissolved Solid (TDS) | mg/L | 262.0 | 500 | 2000 | 2540 C |
| 8. | Total Hardness as CaCO ₃ | mg/L | 150.0 | 200 | 600 | 2340 C |
| 9. | Chloride as Cl | mg/L | 9.64 | 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 | 11.99 | 200 | 400 | 4500 SO ₄ ²⁻ E |



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| | | | | | | |
|-----|-----------------------------------------|-----------|---------|--------|---------------|-----------------------------------|
| 12. | Nitrate as NO ₃ ⁻ | mg/L | 3.2 | 45.0 | No Relaxation | 4500 NO ₃ ⁻ |
| 13. | Fluoride as F | mg/L | < 0.05 | 1 | 1.5 | 4500 FD |
| 14. | Calcium as Ca | mg/L | 24.85 | 75 | 200 | 3500- Ca B |
| 15. | Magnesium as Mg | mg/L | 21.38 | 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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3. Retention period of tested sample is 1 month from the date of issue test report unless otherwise specified.



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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. : TC1100323000000412F |
| Report No. | : GV/NL/23-24/058 | Sample Ref. ID : NLM-054-2023(1) |
| Name of Customer | : M/s. Orissa Metaliks Pvt. Ltd. (I) | Report Date : 29.09.2023 |
| Address of Customer | : Mouza : Mathurakismat, Gokulpur, Dist. : Paschim Medinipur, Pin : 721301, W.B. | Date of Sampling : 14.09.2023 & 15.09.2023 |
| Sample Description | : Noise Level | Total Time : 1 Hr. |
| Sampling Location | : Near Plant Main Gate | Sampling Method : IS : 9989 :1981 |
| Noise Level Limit | : Day Time : 75 dB(A), Night Time : 70 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 | : Industrial 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. |
| 69.3 | 60.8 | 66.3 | 56.7 | 50.8 | 52.2 |

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

Sample is drawn by : M/s. Greenvision U.L.R. No. : TC1100323000000413F
Report No. : GV/NL/23-24/059 Sample Ref. ID : NLM-054-2023(2)
Name of Customer : M/s. Orissa Metaliks Pvt. Ltd. (I) Report Date : 29.09.2023
Address of Customer : Mouza : Mathurakismat, Gokulpur, Date of Sampling : 14.09.2023
Dist. : Paschim Medinipur, Pin : 721301, W.B.
Sample Description : Noise Level Total Time : 1 Hr.
Sampling Location : Shyamraipur 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. |
| 64.8 | 56.9 | 61.0 | 55.2 | 45.4 | 51.2 |


Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager


(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
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End of the report.....

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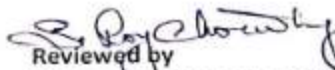
TC-11003

TEST REPORT OF NOISE LEVEL MONITORING

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

Sample is drawn by : M/s. Greenvision U.L.R. No. : TC1100323000000414F
Report No. : GV/NL/23-24/060 Sample Ref. ID : NLM-054-2023(3)
Name of Customer : M/s. Orissa Metaliks Pvt. Ltd. (I) Report Date : 29.09.2023
Address of Customer : Mouza : Mathurakismat, Gokulpur, Date of Sampling : 14.09.2023 &
Dist. : Paschim Medinipur, Pin : 721301, W.B. 15.09.2023
Sample Description : Noise Level Total Time : 1 Hr.
Sampling Location : Truck Parking Area Sampling Method : IS : 9989 :1981
Noise Level Limit : Day Time : 75 dB(A), Night Time : 70 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 : Industrial 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. |
| 70.3 | 66.2 | 69.5 | 55.2 | 50.9 | 52.7 |


Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager


(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
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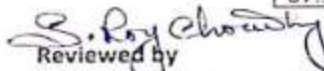


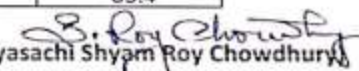
TEST REPORT OF NOISE LEVEL MONITORING

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

Sample is drawn by : M/s. Greenvision U.L.R. No. : TC1100323000000409F
Report No. : GV/NL/23-24/061 Sample Ref. ID : NLM-054-2023(4)
Name of Customer : M/s. Orissa Metalliks Pvt. Ltd. (I) Report Date : 29.09.2023
Address of Customer : Mouza : Mathurakismat, Gokulpur, Date of Sampling : 14.09.2023 & 15.09.2023
Dist. : Paschim Medinipur, Pin : 721301, W.B. Total Time : 24 Hrs.
Sample Description : Noise Level Sampling Method : IS : 9989 :1981
Sampling Location : Near CPP Area

| Time | Lmax dB (A) | Lmin dB (A) | Leq dB (A) |
|--------------------------|----------------|----------------|---------------|
| 08:10 hrs. to 09:10 hrs. | 65.7 | 61.6 | 63.6 |
| 09:10 hrs. to 10:10 hrs. | 65.9 | 59.8 | 62.7 |
| 10:10 hrs. to 11:10 hrs. | 66.7 | 62.5 | 64.6 |
| 11:10 hrs. to 12:10 hrs. | 67.1 | 65.4 | 66.2 |
| 12:10 hrs. to 13:10 hrs. | 67.8 | 61.9 | 65.8 |
| 13:10 hrs. to 14:10 hrs. | 67.4 | 63.8 | 66.5 |
| 14:10 hrs. to 15:10 hrs. | 69.3 | 62.8 | 67.0 |
| 15:10 hrs. to 16:10 hrs. | 68.8 | 64.7 | 67.8 |
| 16:10 hrs. to 17:10 hrs. | 68.2 | 63.6 | 66.9 |
| 17:10 hrs. to 18:10 hrs. | 67.9 | 60.5 | 65.3 |
| 18:10 hrs. to 19:10 hrs. | 67.2 | 61.7 | 65.6 |
| 19:10 hrs. to 20:10 hrs. | 68.1 | 64.3 | 67.3 |
| 20:10 hrs. to 21:10 hrs. | 66.5 | 60.6 | 64.4 |
| 21:10 hrs. to 22:10 hrs. | 66.9 | 60.3 | 64.6 |
| 22:10 hrs. to 23:10 hrs. | 66.8 | 59.6 | 64.0 |
| 23:10 hrs. to 00:10 hrs. | 65.2 | 61.2 | 64.3 |
| 00:10 hrs. to 01:10 hrs. | 64.8 | 60.8 | 63.6 |
| 01:10 hrs. to 02:10 hrs. | 64.5 | 58.3 | 62.5 |
| 02:10 hrs. to 03:10 hrs. | 63.7 | 58.4 | 63.0 |
| 03:10 hrs. to 04:10 hrs. | 62.8 | 57.5 | 61.3 |
| 04:10 hrs. to 05:10 hrs. | 62.1 | 54.6 | 59.6 |
| 05:10 hrs. to 06:10 hrs. | 65.6 | 61.6 | 64.8 |
| 06:10 hrs. to 07:10 hrs. | 66.2 | 59.5 | 64.0 |
| 07:10 hrs. to 08:10 hrs. | 64.3 | 60.2 | 63.4 |


Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager


(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
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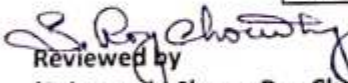


TEST REPORT OF NOISE LEVEL MONITORING

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

| | | |
|---------------------|-------------------------------------------------------------------------------------|-----------------------------------------------|
| Sample is drawn by | : M/s. Greenvision | U.L.R. No. : TC1100323000000410F |
| Report No. | : GV/NL/23-24/062 | Sample Ref. ID : NLM-054-2023(5) |
| Name of Customer | : M/s. Orissa Metaliks Pvt. Ltd. (I) | Report Date : 29.09.2023 |
| Address of Customer | : Mouza : Mathurakismat, Gokulpur, Dist. : Paschim Medinipur, Pin : 721301, W.B. | Date of Sampling : 14.09.2023 & 15.09.2023 |
| Sample Description | : Noise Level | Total Time : 24 Hrs. |
| Sampling Location | : Between DRI Plants | Sampling Method : IS : 9989 :1981 |

| Time | Lmax dB (A) | Lmin dB (A) | Leq dB (A) |
|--------------------------|----------------|----------------|---------------|
| 09:15 hrs. to 10:15 hrs. | 63.7 | 56.5 | 60.2 |
| 10:15 hrs. to 11:15 hrs. | 61.4 | 54.7 | 59.0 |
| 11:15 hrs. to 12:15 hrs. | 64.6 | 58.4 | 62.5 |
| 12:15 hrs. to 13:15 hrs. | 60.5 | 53.8 | 58.0 |
| 13:15 hrs. to 14:15 hrs. | 62.4 | 57.0 | 59.6 |
| 14:15 hrs. to 15:15 hrs. | 64.0 | 56.9 | 59.3 |
| 15:15 hrs. to 16:15 hrs. | 58.2 | 50.7 | 55.3 |
| 16:15 hrs. to 17:15 hrs. | 60.3 | 52.4 | 57.4 |
| 17:15 hrs. to 18:15 hrs. | 61.5 | 52.7 | 58.0 |
| 18:15 hrs. to 19:15 hrs. | 56.6 | 50.4 | 53.8 |
| 19:15 hrs. to 20:15 hrs. | 63.2 | 57.7 | 61.2 |
| 20:15 hrs. to 21:15 hrs. | 61.8 | 55.7 | 59.0 |
| 21:15 hrs. to 22:15 hrs. | 69.2 | 62.4 | 66.2 |
| 22:15 hrs. to 23:15 hrs. | 68.4 | 60.2 | 65.0 |
| 23:15 hrs. to 00:15 hrs. | 70.0 | 62.3 | 66.7 |
| 00:15 hrs. to 01:15 hrs. | 65.5 | 59.8 | 62.7 |
| 01:15 hrs. to 02:15 hrs. | 65.7 | 61.2 | 63.5 |
| 02:15 hrs. to 03:15 hrs. | 69.9 | 61.8 | 65.8 |
| 03:15 hrs. to 04:15 hrs. | 67.5 | 60.3 | 64.5 |
| 04:15 hrs. to 05:15 hrs. | 71.7 | 64.0 | 68.5 |
| 05:15 hrs. to 06:15 hrs. | 65.9 | 58.5 | 62.8 |
| 06:15 hrs. to 07:15 hrs. | 65.3 | 61.7 | 63.5 |
| 07:15 hrs. to 08:15 hrs. | 66.1 | 60.2 | 63.2 |
| 08:15 hrs. to 09:15 hrs. | 70.3 | 62.8 | 66.8 |


Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager


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

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FORM NO.17(A)

Record of Eye Examination

| Sl. NO. | DEPARTMENT/WORK | NAME OF WORKER | SEX | AGE(on last birthday) | OCCUPATION | | EXAMINATION OF EYE SIGHT | | SIGNATURE OF OPHTHALMOLOGIST | REMARKS |
|---------|-----------------|----------------------|-----|-----------------------|----------------|--------------------|--------------------------|--------|--------------------------------------------------------------------|---------|
| | | | | | Nature | Date of Employment | Date | Result | | |
| 1 | CRANE OPERATOR | SAVAN KUMAR | M | 26 | CRANE OPERATOR | 01-10-20 | 30-09-23 | 6/6 | | OK |
| 2 | CRANE OPERATOR | SAJAN KUMAR | M | 25 | CRANE OPERATOR | 16-01-20 | 30-09-23 | 6/6 | <i>Laxmidip Sen</i> | OK |
| 3 | CRANE OPERATOR | RAMESH PASWAN | M | 40 | CRANE OPERATOR | 16-04-21 | 30-09-23 | N6 | <i>Laxmidip Sen</i> D.O. (CA) REGD No-4111 (WB) | OK |
| 4 | CRANE OPERATOR | MILAN KHAN | M | 27 | CRANE OPERATOR | 17-02-20 | 30-09-23 | 6/6 | <i>Laxmidip Sen</i> D.O. (CA) REGD No-4111 (WB) | OK |
| 5 | CRANE OPERATOR | ASHOK PASWAN | M | 33 | CRANE OPERATOR | 18-06-23 | 30-09-23 | 6/6 | <i>Laxmidip Sen</i> D.O. (CA) REGD No-4111 (WB) | OK |
| 6 | MECHANICAL | GANESH KUMAR RAUSHAN | M | 43 | SHIFT INCHARGE | 03-05-22 | 30-09-23 | N6 | | OK |
| 7 | MECHANICAL | ARPAN SIKDAR | M | 23 | GET | 09-08-23 | 30-09-23 | 6/6 | <i>Laxmidip Sen</i> | OK |
| 8 | MECHANICAL | GUDDU KR. MISHRA | M | 40 | FOREMAN | 01-12-20 | 30-09-23 | N6 | | OK |
| 9 | MECHANICAL | SITARAM MONDAL | M | 42 | TURNAL | 21-09-23 | 30-09-23 | N6 | <i>Laxmidip Sen</i> | OK |
| 10 | OPERATION | RAJU KUMAR | M | 30 | FITTER | 18-02-22 | 30-09-23 | 6/6 | <i>Laxmidip Sen</i> | OK |
| 11 | PROCESS | RAJNISH KUMAR | M | 24 | SUPERVISOR | 20-04-23 | 30-09-23 | 6/6 | <i>Laxmidip Sen</i> | OK |
| 12 | PROCESS | ASHOK YADAV | M | 44 | ASST. MANAGER | 01-01-21 | 30-09-23 | N6 | <i>Laxmidip Sen</i> M.B.S. (CA) D.O. (CA) REGD No-48141 (WB) | OK |
| 13 | AUTOMOBILE | JOYDEB MAHATA | M | 27 | JCB DRIVER | 25.12.18 | 30-09-23 | 6/6 | <i>Laxmidip Sen</i> | OK |
| 14 | AUTOMOBILE | BAPPA MAHANTA | M | 26 | JCB DRIVER | 10.02.20 | 30-09-23 | 6/6 | | OK |
| 15 | AUTOMOBILE | RAJU MAHATA | M | 26 | JCB DRIVER | 23.05.20 | 30-09-23 | 6/6 | | OK |

FORM NO.17(A)

Record of Eye Examination

| SL NO. | DEPARTMENT/WORK | NAME OF WORKER | SEX | AGE(on last birthday) | OCCUPATION | | EXAMINATION OF EYE SIGHT | | SIGNATURE OF OPHTHALMOLOGIST | REMARKS |
|--------|-----------------|-------------------------|-----|-----------------------|-----------------|--------------------|--------------------------|--------|------------------------------|---------|
| | | | | | Nature | Date of Employment | Date | Result | | |
| 16 | AUTOMOBILE | DIPAK KHAMRAI | M | 26 | JCB DRIVER | 12.10.19 | 30-09-23 | 0/0 | | OK |
| 17 | AUTOMOBILE | RAJESH YADAV | M | 45 | JCB DRIVER | 01.09.19 | 30-09-23 | N6 | <i>Sandip Sen</i> | OK |
| 18 | AUTOMOBILE | PRADIP KUMAR SHARMA | M | 36 | JCB DRIVER | 29.03.08 | 30-09-23 | 0/0 | <i>Sandip Sen</i> | OK |
| 19 | AUTOMOBILE | MD NAJRUL | M | 26 | JCB DRIVER | 14.04.18 | 30-09-23 | 0/0 | <i>Sandip Sen</i> | OK |
| 20 | AUTOMOBILE | KISHOR LAGURI | M | 31 | JCB DRIVER | 07.05.17 | 30-09-23 | 0/0 | <i>Sandip Sen</i> | OK |
| 21 | AUTOMOBILE | TURAM BURIULY | M | 27 | JCB DRIVER | 17.10.19 | 30-09-23 | 0/0 | <i>Sandip Sen</i> | OK |
| 22 | AUTOMOBILE | GHOLTU RAWANI | M | 32 | JCB DRIVER | 18.11.19 | 30-09-23 | 0/0 | <i>Sandip Sen</i> | OK |
| 23 | DESPATCH | AMIT HOTA | M | 30 | SR.SUPERVISOR | 01-10-22 | 01-10-23 | 0/0 | | OK |
| 24 | EPOXY PLANT | KRISHNA CHANDRA PRADHAN | M | 45 | OPERATOR | 20-07-23 | 01-10-23 | N6 | <i>Sandip Sen</i> | OK |
| 25 | EPOXY PLANT | RAHUL SHARMA | M | 22 | JR. ELECTRICIAN | 10-07-23 | 01-10-23 | 0/0 | <i>Sandip Sen</i> | OK |
| 26 | EPOXY PLANT | OM PRAKASH SHARMA | M | 56 | FOREMAN | 01-05-23 | 01-10-23 | N6 | <i>Sandip Sen</i> | OK |
| 27 | EPOXY PLANT | RABIKANTA DUBEY | M | 44 | FITTER | 25-04-23 | 01-10-23 | N6 | <i>Sandip Sen</i> | OK |
| 28 | MECHANICAL | MANDJ KUSHWAHA | M | 34 | WELDER | 02-09-22 | 01-10-23 | 0/0 | <i>Sandip Sen</i> | OK |
| 29 | MECHANICAL | RAM BAHADUR THAPA | M | 37 | ASST.FOREMAN | 16-12-20 | 01-10-23 | 0/0 | | OK |
| 30 | MECHANICAL | CHITTARANJAN KUMAR | M | 35 | ASST FOREMAN | 10-10-20 | 01-10-23 | 0/0 | | OK |

FORM NO.17(A)

Record of Eye Examination

| SL NO. | DEPARTMENT/WORK | NAME OF WORKER | SEX | AGE(on last birthday) | OCCUPATION | | EXAMINATION OF EYE SIGHT | | SIGNATURE OF OPHTHALMOLOGIST | REMARKS |
|--------|-----------------|-------------------|-----|-----------------------|------------------|--------------------|--------------------------|----------------|------------------------------|---------|
| | | | | | Nature | Date of Employment | Date | Result | | |
| 31 | MECHANICAL | GOPAL SAHU | M | 29 | FITTER | 19-02-22 | 01-10-23 | 0/b | | OK |
| 32 | MECHANICAL | SANDEEP YADAB | M | 26 | ASST.ENGINEER | 02-11-21 | 01-10-23 | 0/b | | OK |
| 33 | MECHANICAL | ANUJ KUMAR | M | 26 | ENGINEER | 06-01-22 | 01-10-23 | 0/b | | OK |
| 34 | OPERATION | ANUKANT RAY | M | 30 | PULLPIT OPERATOR | 13-03-22 | 01-10-23 | 0/b | | OK |
| 35 | OPERATION | ABHISEK JANA | M | 24 | ASST.ENGINEER | 16-12-21 | 01-10-23 | 0/b | | OK |
| 36 | OPERATION | SANLAP BANERJEE | M | 23 | ENGINEER | 23-06-23 | 01-10-23 | 0/b | | OK |
| 37 | OPERATOR | YOGENDRA PRASAD | M | 38 | INTER | 21-11-20 | 01-10-23 | 0/b | | OK |
| 38 | WORKSHOP | PIRAMOD KR. SINGH | M | 47 | INTER | 06-06-23 | 01-10-23 | N ₀ | | OK |
| 39 | PROCESS | BANARSI SHARMA | M | 37 | INCHARGE | 29-05-21 | 01-10-23 | 0/b | | OK |

Sandeep Sen
 Dr. Sandeep Sen
 M.B.B.S. (CAL) D.O. (W.A.M.C.)
 REGD No-48141 (WB/MO)

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

as amended vide Notification No. 1183-LW-40-491 dated 27th Nov. 1991

- 1. Serial No. in the Register of adult worker: *CMP-1*
- 2. Name of worker: *Chandan Mandal*
- 3. Sex: *M*
- 4. Date of birth: *28/2/20*

| 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 moving 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 |
| <i>DIT/macl</i> | | | | | <i>4/2/20</i> | | | |
| <i>DRI/cml</i> | | | | | | | | |

| Examination and the results thereof | | If retained unfit for work | | | | Signature with date of the Factory Medical Officer / The Certifying Surgeon |
|-------------------------------------|-------------|-----------------------------|-------------------------------------------------|--------------------------------|----|-----------------------------------------------------------------------------|
| Place of tests & results thereof | Result | Reasons for such withdrawal | Date of re-examination not earlier than 14 days | Date of issuing of Certificate | | |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| <i>WJ-5389, Nil-5'8"</i> | <i>Fit.</i> | | | | | |
| <i>RP-120/10, PR-76</i> | | | | | | |
| <i>MS-17.98, Nil-5'4"</i> | | | | | | |
| <i>D-6400-04(17)</i> | | | | | | |

Notes - 1. Separate page should be maintained for individual worker.
2. Fresh entry should be made for each examination.

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

as amended vide Notification No. 1183-LW-RC-191 dated 27th Nov, 1991

Serial No. in the Register of adult worker: *COMPLETE*
 Name of worker: *Ravi Gouda*
 Sex: *M*
 Date of Birth: *9.6.1993*

| 1 Description of work | 2 Name of hazardous process | 3 Duties or operations | 4 Nature of job or occupation | 5 Raw materials, products or by-products likely to be exposed to | 6 Date of testing | 7 Date of leaving service to other work | 8 Reason for discharge transfer to other work | 9 Medical |
|--------------------------|--------------------------------|---------------------------|----------------------------------|---------------------------------------------------------------------|----------------------|--------------------------------------------|--------------------------------------------------|------------------------------------------------|
| | | | | | | | | Signs and symptoms observed during examination |
| <i>Security</i> | | | | | <i>12.6.23</i> | | | |
| <i>Security</i> | | | | | | | | |
| <i>Security</i> | | | | | | | | |

| 10 Description and the results thereof | | 11 If accepted unfit for work | | | | 12 Signature with date of the Factory Medical Officer / The Consulting Surgeon |
|--------------------------------------------|--------------|-----------------------------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| 10 Nature of tests & results thereof | 11 Result | 12 Period of Temporary withdrawal from that work | 13 Reasons for such withdrawal | 14 Date of doctoring him unfit for that work | 15 Date of issuing Fitness Certificate | |
| <i>4. High Hit - 5' d</i> | <i>Fit</i> | | | | | <i>[Signature]</i> DR. DEBASISH DEY SARKAR M.B.B.S. (CCS-BHAGALPUR) Reg. No. 114 (WBMC) (Factory Medical Officer) |
| <i>MP - 110/120 PR - 25 - 25 - 25 - 25</i> | | | | | | |
| <i>20-48 - Anemia - Nil</i> | | | | | | |
| <i>6. Camp - B7 (ve)</i> | | | | | | |

Notes - 1. Separate page should be maintained for individual worker.
 2. Fresh entry should be made for each examination.

