

**Six Monthly (December-2023) Compliance Report for Period October 2023 to March 2024 for Mini Blast Furnace (1 x 320 m<sup>3</sup>)-4,50,000 TPA with matching PCM and 200 TPD oxygen plant at Village Gokulpur, P.O-Shyamraipur, P.s- Kharagpur (Local) District West Medinipur, West Bengal**

1 message

ORISSA METALIKS <orissametalikspvtltd@gmail.com>

Tue, May 21, 2024 at 7:39 PM

To: "roez.bsr-mef@nic.in" <roez.bsr-mef@nic.in>, iro.kolkata-mefcc@gov.in, ms@wbpcb.gov.in, Monitoring Cell <monitoring-ec@nic.in>

Bcc: environment RML <environment@rashmigroup.com>, Biswanath Sharma <biswanath@rashmigroup.com>, bijayen.srivastava@rashmigroup.com

Dear Sir,

With reference to the above, we are hereby submitting the six monthly compliance reports for period from October 2023 to March 2024 of EC no.- **J-11011/229/2007-I (A)-II (I)** dated 07.07.2021 and 16.03.2022 for Mini Blast Furnace (1 x 320 m<sup>3</sup>)-4,50,000 TPA with matching PCM and 200 TPD oxygen plant 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-II)**.

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 by all the Rules & Regulations.

Hope you will find the same in order.

With warm Regards,

**Authorised Signatory**

With warm Regards,

BIJAYEN SRIVASTAVA

Manager- Environment & Pollution

**M/s. Orissa Metaliks Private Limited**

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

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Mbl. No-07044070948

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3 attachments

 MBF.pdf  
72K

 OMPL-MBF EC\_compliance-JUNE 2024\_compressed.pdf  
3881K

 View Compliance MBF.pdf  
597K

Ref. OMPL-KGP/ENV COMPL /June-2024

Date: 18/05/2024

To,

**a) Regional Office,**

Ministry of Environment, Forests & Climate Change, Bhubaneswar  
A/3 Chandrasekharapur,  
Bhubaneswar – 751023, Odisha

**a) Sub Office, Kolkata**

Regional Office, Bhubaneswar,  
Ministry of Environment, Forest and Climate Change,  
IB-198, Sector-III, Salt Lake City,  
Kolkata – 700 106

**Sub. Six Monthly (June-2024) Compliance Report** for Period October 2023 to March 2024 for Iron Ore Beneficiation Plant, Pellet Plant (2.2 MTPA) and Producer Gas Plant (480 TPD or 75,000 Nm<sup>3</sup>/hr) at Gokulpur, Tehsil- Kharagpur, District- Paschim Medinipur West Bengal

**Ref:** - EC No- J -11011/182/2012-IA II (I); Dated 24<sup>th</sup> February 2015, 23.09.2020 & 16.03.2022

Dear Sir,

With reference to the above, we are hereby submitting the six monthly compliance reports period from October 2023 to March 2024 for EC No- J -11011/182/2012-IA II (I); Dated 24<sup>th</sup> February 2015, 23.09.2020 & 16.03.2022; for Iron Ore Beneficiation Plant, Pellet Plant (2.2 MTPA) and Producer Gas Plant (480 TPD or 75,000 Nm<sup>3</sup>/hr) at Gokulpur, Tehsil- Kharagpur, District- Paschim Medinipur (W.B.), operated in the name of M/s Orissa Metaliks Private Limited (Unit-II).

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.

Here, we would like to inform that the last six monthly compliance report for the period April, 2023-September 2023 was submitted to concerned department vide mail & letter no- OMPL/ENV COMPL/December-2023 dated 29.11.2023 on parivesh portal vide Compliance ID: 27872944 dated 27.11.2023.

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

Hope you will find the same in order.

Thanking you.

Yours Faithfully,

For, M/s Orissa Metaliks Private Limited

**Authorised Signatory**

C.C.:-

- 1. The Member Secretary,** West Bengal Pollution Control Board, Parivesh Bhawan, 10A Block – LA, Sector – III, Kolkata – 700091
- 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 Stack Monitoring Report as Annexure-I.
3. Copy of last six month OCEMS data as Annexure-II.
4. CAAQMS monitoring data as Annexure-III.
5. Copy of AAQM Report as Annexure-IV.

6. Copy of Fugitive Emission Report as Annexure-V.
7. STP outlet effluent sampling Report is enclosed as Annexure-VI.
8. Effluent & Ground water sampling Report is enclosed as Annexure-VII.
9. Green Belt Development Detail as Annexure-VIII.
10. OHS Report as Annexure-IX.
11. Copy of Ambient & Work Noise Quality Monitoring Report Annexure-X.



**SIX MONTHS COMPLIANCE REPORT**  
**OCTOBER 2023 to MARCH 2024**

**For**

**Iron Ore Beneficiation Plant, Pellet Plant (2.2  
MTPA), Producer Gas Plant (480 TPD or 75,000  
Nm<sup>3</sup>/hr)**

**EC No-J -11011/182/2012-IA II (I); Dated 24.02.2015,  
23.09.2020 & 16.03.2022**

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



**M/s ORISSA METALIKS PRIVATE LIMITED**

**1, GRASTIN PLACE, ORBIT HOUSE  
3<sup>rd</sup> FLOOR, ROOM NO -3B KOLKATA – 700 001  
WEST BENGAL  
Phone No.-033 - 22438518**

**[Email id-orissametalikspvtltd@gmail.com](mailto:orissametalikspvtltd@gmail.com)**

**Name of the Project: -**

Iron Ore Beneficiation Plant, Pellet Plant (2.2 MTPA),  
Producer Gas Plant (480 TPD or 75,000 Nm<sup>3</sup>/hr)

**Clearance Letter/s No. and date: -**

EC No-J-11011/182/2012-IAII (I); Dated 24.02.2015,  
23.09.2020 and 'No increase in pollution load certificate'  
under clause 7 (II) b of EIA notification issued by WBPCB  
vide memo no.131-2N-29/2019(E)-Pt. II dated 16.03.2022.

**Period of Compliance Report: -**

October 2023 to March 2024

A.	Specific Conditions w.r.t to 'No increase in pollution load certificate' under clause 7 (II) b of EIA notification issued by WBPCB vide memo no.131-2N-29/2019(E)-Pt. II dated 16.03.2022.	Compliance Status
i)	The project proponent shall comply with the strict emission norms of 30 mg/Nm <sup>3</sup> .	<p style="text-align: center;">Being Complied</p> <p>Stack monitoring is carried out on regular basis by W.B.P.C.B/ NABL/ MoEF authorized laboratories. Latest Analysis report is attached as <b>Annexure - I</b>.</p> <p>Also Online stack monitoring system is installed with stack as per CPCB guideline and data are transferred to CPCB server &amp; State portal. OCEMS report for last six month is enclosed as <b>Annexure - II</b>.</p>
ii)	The pollution load after expansion shall not exceed the existing pollution load as submitted on Parivesh Portal.	<p style="text-align: center;">Agreed and being complied with</p>

SL. No.	CONDITIONS	COMPLIANCE STATUS
<b>A. SPECIFIC CONDITIONS</b>		
i.	<p>On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices viz. Electrostatic precipitator (ESP), and bag filters etc. shall be provided to keep the emission levels below 50 mg/Nm by installing energy efficient technology.</p>	<p style="text-align: center;">Being Complied</p> <p>Project is being operated by name of M/s Orissa Metaliks Private Limited (Unit-II) and is still under constructional phase. Only 02 nos. pellet plants and 6 x 7500 Nm<sup>3</sup>/hr Producer Gas Plant is in operation.</p> <p>01 nos. manual AAQM systems installed at plant main gate and also 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) are installed covering upwind, downwind and crosswind directions after getting site approval from WBPCB and the online ambient air quality data is being transferred to WBPCB online server.</p> <p>CAAQMS data's are enclosed as <b>Annexure-III</b>.</p> <p>The management of OMPL has installed 24 x 7 continuous emission monitoring system as per CPCB guideline at process stacks to monitor stack emission and the data is being transferred to CPCB online server. The Pellet Plant is equipped with individual ESP, bag filters, and cyclone. All ESP &amp; bag houses are designed to meet the standard below 30 mg/Nm<sup>3</sup>.</p> <p>Recently at four locations viz., Rajpura Village, Gokulpur Village, Dhekia Village and Near Plant Main Gate, AAQ monitoring carried by third party monitoring agency M/s Qualissure Laboratory Services, West Bengal which is NABL/ WBPCB accredited laboratory has done the analysis. As per</p>



monitoring reports for month of March 2024, AAQ levels are as follows:

Parameter	Rajpura Village	Gokulpur Village	Dhekia Village	Near plant main gate
PM <sub>10</sub> (µg/m <sup>3</sup> )	53.0	58.0	65.0	75.0
PM <sub>2.5</sub> (µg/m <sup>3</sup> )	27.0	25.0	38.0	40.0
SO <sub>2</sub> (µg/m <sup>3</sup> )	6.5	6.1	6.6	6.8
NO <sub>x</sub> (µg/m <sup>3</sup> )	23.7	22.4	24.0	24.6
CO (mg/m <sup>3</sup> )	481	481	492	549

The latest Ambient Air Quality (AAQ) analysis reports are attached in as **Annexure-IV**.

ii. The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.

Being Complied

Management is strictly maintaining the National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16<sup>th</sup> November, 2009.

Ambient Air Quality (AAQ) is monitored) at four locations viz., Rajpura, Dhekia, Gokulpur village and Near Plant main Gate. AAQ monitoring carried by third party monitoring agency M/s Qualissure Laboratory Services, West Bengal which is NABL/ WBPCB/OSPCB accredited laboratory has done the analysis. Latest CAAQMS & AAQM reports are already enclosed as **Annexure-III** and **Annexure-IV**.

iii. Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry vide G.S.R. 414(E) dated 30th May, 2008 and regularly monitored. Guidelines/Code of Practice issued by the CPCB shall be followed.

Agreed

Project is still under constructional phase, only 02 nos. pellet plants and 6 x 7500 Nm<sup>3</sup>/hr Producer Gas Plant are in operation. The project design is made keeping in view norms & regulations. To mitigate the fugitive emission the action taken by management of OMPL are:

- Installed dust suppression system and bag filters at conveyor and transfer points, product handling, loading and unloading points.
- 60 nos. fixed water sprinklers/ water gun installed in the critical areas like internal roads, plant area, railway siding and raw materials handling area for effectively controlling the fugitive emission.
- Dedicated 01 No water spraying tankers are in use.
- Concreting of internal road with proper drainage system to reduce fugitive emission because of movement of trucks.
- 01 no movable Water mist fog system is being used in order to reduce the fugitive dust.
- Frequency of Mechanical Street sweeping machine with vacuum cleaning has been increased from 02 times a days to 04 times a day.
- Dry fog system is installed

Fugitive emission monitoring for the plants in operation is carried out on regular basis by WBPCB/NABL/MoEF&CC authorized laboratories. Fugitive Emissions have been monitored at Pellet Plant Area, Railway Siding & Product House by third party monitoring agency M/s Qualissure Laboratory Services; West Bengal which is NABL/ WBPCB accredited laboratory has done the analysis. As per monitoring reports for month of March 2024 the emission levels are as follows:

Parameter	Pellet Plant Area III & V	Railway Siding	Product Area
TSPM (µg/m <sup>3</sup> )	252	250	281





		Fugitive emission report is enclosed as <b>Annexure-V</b> .																						
iv.	Dust suppression system and bag filters shall be installed to control the fugitive dust emissions at conveyor and transfer points, product handling, loading and unloading points.	<p style="text-align: center;">Agreed</p> <p>Project is still under constructional phase, only 02 nos. pellet plants and 6 x 7500 Nm<sup>3</sup>/hr Producer Gas Plant are in operation. The project designed is made keeping in view norms &amp; regulations.</p> <p>The management of OMPL have already installed dust suppression system (dry fog system, movable water canon fog mist system etc.) and bag filters at conveyor and transfer points, product handling, loading and unloading points.</p> <p>Also Fugitive emission monitoring for the plants in operation is carried out on regular basis by WBPCB/NABL/MoEF&amp;CC authorized laboratories.</p>																						
v.	Efforts shall further be made to use maximum water from the rain water harvesting sources. If needed, capacity of the reservoir shall be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources. Use of air cooled condensers shall be explored and closed circuit cooling system shall be provided to reduce water consumption and water requirement shall be modified accordingly.	<p style="text-align: center;">Being Compiled</p> <p>Currently 02 nos. pellet plants and 6 x 7500 Nm<sup>3</sup>/hr Producer Gas Plant is in operation. Total fresh make up water requirement for operational project is 167 KLD. Orissa Metaliks (P) Limited (Unit-II) has adequate water withdrawal permission of ground water &amp; surface water (River Kansabati) from SWID, West Bengal. Also management has obtained permission for nalla/ waste water from Kharagpur Municipality for using it in process after treatment. Detail scheme for integrated water distribution network between associate company of the Group is already submitted to ministry, IRO Kolkata, WBPCB vide letter no-RML/Reply_SWID/20-21/02 dated 01.01.2020.</p> <p>Rain Water Harvesting Pond of size approximately 30,000 m<sup>3</sup> [02 Nos.] is there and water is used for green belt development &amp; dust suppression.</p>																						
vi.	All the effluent shall be treated and used for ash handling, dust suppression and green belt development. No effluent shall be discharged and 'zero' discharge shall be adopted. Sanitary sewage shall be treated in septic tank followed by soak pit.	<p style="text-align: center;">Agreed</p> <p>The plant is designed as Zero Discharge Plant and no waste water is discharged outside plant premises. Water in pellet plant is used for cooling purpose and Phenolic water is used for green ball making and in ABC of DRI kiln of OMPL (Unit-I) plant (associate company).</p> <p>Domestic waste water is treated in STP of adequate capacity. Analysis and reports are attached in as <b>Annexure -VI</b>.</p>																						
vii.	Regular monitoring of influent and effluent surface, sub-surface and ground water shall be ensured and treated wastewater shall meet the norms prescribed by the State Pollution Control Board or described under the E(P) Act whichever are more stringent. Leachate study for the effluent generated and analysis shall also be regularly carried out and report submitted to the Ministry's Regional Office at Bhubaneswar, SPCB and CPCB.	<p style="text-align: center;">Being Compiled</p> <p>The management of OMPL-II is conducting third party monitoring of effluent, sub-surface and ground water by M/s Qualissure Laboratory Services, West Bengal which is NABL/ WBPCB accredited laboratory. As per monitoring reports for month of March 2024 the results are as follows</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th rowspan="3">Parameters</th> <th colspan="2">Industrial Effluent water</th> </tr> <tr> <th colspan="2">ETP</th> </tr> <tr> <th>INLET</th> <th>OUTLET</th> </tr> </thead> <tbody> <tr> <td>pH</td> <td>7.23</td> <td>7.37</td> </tr> <tr> <td>TSS (mg/l)</td> <td>80</td> <td>22</td> </tr> <tr> <td>Oil and Grease (mg/l)</td> <td>7.9</td> <td>&lt;1.4</td> </tr> <tr> <td>BOD (mg/l)</td> <td>64</td> <td>12</td> </tr> <tr> <td>COD (mg/l)</td> <td>214</td> <td>58</td> </tr> </tbody> </table> <p>Effluent Analysis and Drinking Water analysis reports are attached in as <b>Annexure -VII</b>.</p>	Parameters	Industrial Effluent water		ETP		INLET	OUTLET	pH	7.23	7.37	TSS (mg/l)	80	22	Oil and Grease (mg/l)	7.9	<1.4	BOD (mg/l)	64	12	COD (mg/l)	214	58
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viii.	Proper utilization of fly ash shall be ensured as per Fly Ash Notification,	Not Applicable.																						



	1999 and subsequent amendment in 2003 and 2010. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding shall be submitted to the Ministry's Regional Office.	
ix.	Risk and Disaster Management Plan along with the mitigation measures shall be prepared and a copy submitted to the Ministry's Regional Office, SPCB and CPCB within 3 months of issue of environment clearance letter.	Complied  The Risk & Disaster Management Plan has been prepared and a copy is already submitted to the Ministry's Regional Office at Bhubaneswar vide letter no. - OMPL-KGP/BHU/ENV-COMPL-1/Dec_2015 dated 24.11.2015.
x.	As proposed, green belt shall be developed in 33 % of plant area. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.	Being Complied  Green belt with 20 m width and density of 2500 per hectare along and around boundary of the site towards the highway sapling/ plantation already in progress. In financial year 2023-24, from Oct. 2023 to March 2024 750 nos. of trees planted. Total Planation done in Fy 2023-24 is around 950 saplings were planted and the survival rate is 90 %. To maintain green belt development work dedicated manpower has been deployed  Detail of Green belt development and recent photograph is enclosed as <b>Annexure-VIII</b> .
		
xi.	At least 5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) based on local needs. The proponent shall prepare a detailed CSR Plan for every next 5 years for the existing-cum-expansion project, which includes village-wise, sector-	Being Complied  M/s Orissa Metaliks Private Limited has well-defined CSR/CER policy under which OMPL carries out social development and welfare measures in the surrounding villages.  In financial year 2023-24, OMPL company has spent total Rs. 7, 00, 000 under the head of CSR/CER. The recent CSR/CER photograph are:





	<p>wise (Health, Education, Sanitation, Health, Skill Development and infrastructure requirements such as strengthening of village roads, avenue plantation, etc) activities in consultation with the local communities and administration. The CSR Plan will include the amount of 2% retain annual profits as provided for in Clause 135 of the Companies Act, 2013 which provides for 2% of the average net profits of previous 3 years towards CSR activities for life of the project. A separate budget head shall be created and the annual capital and revenue expenditure on various activities of the Plan shall be submitted as part of the Compliance Report to RO, Bangalore. The details of the CSR Plan shall also be uploaded on the company website and shall also be provided in the Annual Report of the company.</p>	 <p>IIT KGP Children Staff Sports Meet</p>	 <p>Re-Construction of Maa Shitala Mandir at Basantapur Roy Para</p>
<p>xii.</p>	<p>The project shall prepare a plan to properly discharge rainwater from the plant area so that water logging may be avoided in general and near DRI plants in particular and submitted with the 6 monthly compliance report.</p>	<p style="text-align: center;">Will be Complied</p> <p>As stated earlier, project is still under constructional phase only 02 nos. pellet plants and 6 x 7500 Nm<sup>3</sup>/hr Producer Gas Plant are in operation. The conditions are considered in the design of the project. Along all internal road proper drainage system are constructed.</p> <p>For properly discharging rainwater from the plant area so that water logging can be avoided, existing drains are connected with existing rain water harvesting pond of size approximately 30.000 m<sup>3</sup> [02 Nos].</p>	
<p>xiii.</p>	<p>The concrete drains shall be de-silted and regular supervision of the areas shall be carried out so that blocking of drains may be avoided for quick discharge of rainwater.</p>	<p style="text-align: center;">Agreed</p> <p>The management of OMPL-II have constructed drains along the internal road and is connected with 01 no guard/storm water collecting pond inside the plant premises.</p>  <p style="text-align: center;">COVERED DRAIN</p> <p>Regular cleaning of drain systems pre monsoon &amp; post monsoon is done in order to avoid blockage of drains.</p>	
<p>xiv.</p>	<p>The workers shall regularly use safety gadgets such as safety shoe, helmets, gloves (engaged in Rolling</p>	<p style="text-align: center;">Being Complied</p> <p>The workers are using safety gadgets such as safety shoes, helmets, gloves,</p>	



	Mill and IF areas), safety goggles and heat resistance aprons.	ear plug, mask, face shield inside the plant.
xv.	Monitoring report on Ambient Air Quality, fugitive dust and noise levels inside the plant shall be submitted along with the six-monthly compliance reports.	In compliance to this point this report is being submitted. Last latest compliance reports for the period April 2023 to September 2023 submitted vide letter no. – OMPL-KGP/ENV_COMP /December-2023 dated 29.11.2023.
xvi.	Environmental Management Cell shall be established immediately and shall be headed by a Senior Officer and the mandate of the Cell shall be defined for effective management of environment control measures. The project shall employ an Environmental officer who would be technically qualified to look after various pollution control measures.	Complied A dedicated Environment Management Cell with qualified Experience personnel is there to handle and solve environmental issues and to make sure stipulated environmental norms & conditions are being complied. The hierarchy chart of the Environment Cell is well defined in Corporate Environmental Policy.
xvii.	The project shall develop its own website to upload compliance measure taken to reduce pollution and to ensure implementation of transparency with general public.	Complied Orissa Metaliks Private Limited has a website and url is <a href="http://www.orissametaliks.com">www.orissametaliks.com</a> . Latest compliance reports are uploaded on website at URL <a href="http://orissametaliks.com/qehs.html">http://orissametaliks.com/qehs.html</a> on a regular basis.
xviii.	Company should develop an HSE Policy.	Complied Company has a well-defined HSE Policy and system of the reporting of any infringements/ non-compliance of EC conditions to the Board of Directors is in place.
xix.	All the permanent workers should be covered under ESI Scheme.	Complied All permanent workers are covered under ESI Scheme as per ESI Act.
xx.	Safety awareness among the workers should be provided.	Being Complied Safety awareness campaigns are being organised inside the plant premises for all units with the objective of demonstrating the use of PPEs in different work zone and explaining the benefit of using PPEs. Number of safety symbol/ slogans inside plant premise at suitable location has been increased in order to boost morale of the work force, increase job satisfaction and reduce lost days and workers compensation due to accidents on the job.
xxi.	The company should have the provision for treatment of its workers at the local Nursing Homes & Hospitals in case of emergency.	Agreed& Being complied with
xxii.	Annual Medical Check-up on some medical parameters like Blood test, Chest X-Ray, Eye test, Audiometry, Spirometry etc. should be conducted amongst the employees of the Company at company's Occupational Health Centre.	Being Complied Occupational health surveillance of the workers is accessed and records are maintained as per the Factories Act 1948. Company is ISO 45001:2018 certified. The OHS record is being enclosed as <b>Annexure-IX</b> .
xxiii.	The company should conduct Pre-employment check-up.	Being Complied Pre-employment check-up is done before issuing work permit.
xxiv.	Awareness on the proper use of	Being Complied



	<b>Personal Protective Equipment (PPE) should be made.</b>	<p>The company supplies PPE (personal protective Equipment) to all the workers and the management is very strict about its proper usage.</p> <p>Safety awareness campaigns are being organised inside the plant premises for all units with the objective of demonstrating the use of PPEs in different work zone and explaining the benefit of using PPEs.</p> <p>Number of safety symbol/ slogans inside plant premise at suitable location has been increased in order to boost morale of the work force, increase job satisfaction and reduce lost days and workers compensation due to accidents on the job.</p>
xxv.	<b>Arrangement for Ambulance with basic facilities with 24 hrs driver and attendant should be made.</b>	<p>Being Complied</p> <p>Arrangement for Ambulance with basic facilities with 24 hrs. driver and attendant is made.</p>
xxvi	<b>Sites for construction and workers camp should be clearly demarcated to prevent occupational hazards. Ensure provision for necessary basic needs and infrastructure facilities such as water supply, sanitary facilities, rest shed etc.</b>	<p>Being Complied</p> <p>Sites for construction and workers camp are clearly demarcated to prevent occupational hazards.</p> <p>Housing for construction labour outside the site with all necessary infrastructure and facilities such as fuel for cooking, toilets, drinking water etc. are provided.</p>
xxvi	<b>Where gases or fumes are likely to be present in foundations, sufficient mechanical / artificial ventilation shall be provided to protect the health and safety of persons working there. If necessary, the personnel working there shall be provided with respiratory protective equipment when work in such unhealthy conditions is to be carried out.</b>	<p>Agreed</p> <p>Sufficient mechanical / artificial ventilation, respiratory protective equipment is &amp; will be provided to protect the health and safety of persons working in a place where gases or fumes are likely to be present in foundations.</p>
xxvi	<b>Hazardous materials such as lubricating oil, compressed gases, paints and varnishes required during construction phase should be stored properly as per the regulations at isolated places.</b>	<p>Being Complied</p> <p>Hazardous materials such as lubricating oil, compressed gases, paints, and varnishes required during construction phase are stored properly and disposed of as per Hazardous &amp; Other Waste (Management &amp; Transboundary Movement) Rules, 2016. The annual return (FORM-IV) for the financial year (2022-2023) in prescribed format submitted on Online Consent Management &amp; Monitoring System portal to WBPCB vides Return no-3919298 dated 30.06.2023.</p>
xxix	<b>Accidental spillages of oil from construction equipment and storage sites should be prevented.</b>	<p>Noted</p>
xxx.	<b>It should be ensured that diesel powered vehicles and construction machinery are properly maintained to minimize the exhaust emission as well as noise generation.</b>	<p>Being Complied</p> <p>Vehicles having valid PUC Certificates are allowed in plant premises to ensure that diesel powered vehicles and construction machinery are properly maintained to minimize the exhaust emission as well as noise generation.</p>
xxxi	<b>Fire protection system for the proposed plant should comprise of an elaborate network of fire brigades, water reservoir, pumps, hydrants, Medium velocity spray system, fire engines, sprinkler system, fire</b>	<p>Being Complied</p> <p>Fire brigades, water reservoir, pumps, hydrants, medium velocity spray system are located at strategic points of the plant.</p>



	alarms, smoke and heat detectors etc.	
xxxi	Portable fire extinguishers of various capacities containing agents such as CO <sub>2</sub> , DCP etc. and should be located at strategic points of the plant.	Being Complied Portable fire extinguishers of various capacities containing agents such as CO <sub>2</sub> , DCP etc. are located at strategic points of the plant.
xxxi	In view of vulnerability to fire, effective preventive and design measures should be taken to minimise fire hazard.	Being Complied
xxxi	There shall be a separate Fire Fighting Department for the proposed plant, which will be full-fledged comprising fire brigade, trained crew, fire fighting materials, dress and equipment.	Being Complied
xxxv	Fire fighting Department will conduct mock drills at regular intervals to check the efficacy of fire fighting systems.	Being Complied
<b>B. GENERAL CONDITIONS</b>		
i.	The project authorities must strictly adhere to the stipulations made by the West Bengal Pollution Control Board and the State Government.	Being Complied Adequate measure has been taken by management of OMPL 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.
ii.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change (MoEF&CC).	Agreed In compliance to this point, management under clause 7(II) of EIA notification obtained expansion of existing pellet plant from No Increase In Pollution Load Committee, WBPCB vide memo no-264-2 N-29/2019 (E)-PT dated 23.09.2020, memo no.131-2N-29/2019(E)-Pt.II dated 16.03.2022.
iii.	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>x</sub> 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.	Being Complied As stated in <b>point no-i</b> , 01 nos. manual AAQM systems installed at plant main gate and also 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) are installed covering upwind, downwind and crosswind directions after getting site approval from WBPCB and the online ambient air quality data is being transferred to WBPCB online server.
iv.	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May 1993 and 31 <sup>st</sup> December, 1993 or as amended form time to time. The treated wastewater shall be utilized for plantation purpose.	Being Complied The Plant has been designed on "Zero" discharge concept and it is ensured by top level management that no water is discharged outside the plant premises. Water in pellet plant is used for cooling purpose and phenolic water is used for green ball making and in ABC of DRI Kiln of OMPL, Unit-I. Domestic waste water is treated in STP of adequate capacity.
v.	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA)	Being Complied The management takes all necessary steps to control the noise level (Ambient & Source) inside the plant premises and a dedicated team is



	<p>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 70 dBA (night-time).</p>	<p>engaged to continuously check the noise level.</p> <p>Also ambient &amp; point source noise analysis for plant is being carried by NABL/MoEF accredited lab on regular basis.</p> <p>Noise level have been monitored at four locations viz. Plant Main Gate, Rajpura Village, Railway Siding, Truck parking Area &amp; Pellet Plant Area by third party monitoring agency M/s Qualissure Laboratory Services, West Bengal which is NABL/ WBPCB accredited laboratory. As per monitoring reports the noise levels are as follows:</p> <table border="1" data-bbox="719 491 1539 617"> <thead> <tr> <th rowspan="3">Parameter</th> <th colspan="2">Near Plant Main Gate</th> <th colspan="2">Rajpura Village</th> <th colspan="2">Truck Parking</th> <th>Railway Siding</th> <th>Near Pellet Plant</th> </tr> <tr> <th colspan="8">AMBIENT</th> <th colspan="2">SOURCE</th> </tr> <tr> <th>Day</th> <th>Night</th> <th>Day</th> <th>Night</th> <th>Day</th> <th>Night</th> <th>Avg.</th> <th>Avg.</th> </tr> </thead> <tbody> <tr> <td>Leq (dBA)</td> <td>57.4</td> <td>49.2</td> <td>54.6</td> <td>44.5</td> <td>58.9</td> <td>48.1</td> <td>56.7</td> <td>54.10</td> </tr> </tbody> </table> <p>The Ambient &amp; Work Zone Noise quality monitoring reports are enclosed as <b>Annexure - X</b>.</p>	Parameter	Near Plant Main Gate		Rajpura Village		Truck Parking		Railway Siding	Near Pellet Plant	AMBIENT								SOURCE		Day	Night	Day	Night	Day	Night	Avg.	Avg.	Leq (dBA)	57.4	49.2	54.6	44.5	58.9	48.1	56.7	54.10
Parameter	Near Plant Main Gate			Rajpura Village		Truck Parking		Railway Siding	Near Pellet Plant																													
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Leq (dBA)	57.4	49.2	54.6	44.5	58.9	48.1	56.7	54.10																														
vi.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	<p>Being Complied</p> <p>As stated in <b>point no- xxii</b>, Occupational health surveillance of the workers will be accessed and records will be maintained as per the Factories Act 1948. Company is ISO 45001:2018 certified.</p>																																				
vii.	The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	<p>Complied</p> <p>Orissa Metaliks (P) Limited Unit-II has 30,000 KL 02 Nos. rain water harvesting ponds in plant premises and harvested water are being used in dust suppression, greenbelt development.</p>																																				
viii.	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.	<p>Being Complied</p> <p>The management of OMPL are in process of complying all the commitments and recommendations made in the EIA/EMP report, undertaking socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc. under CSR head.</p> <p>The CSR details are discussed in <b>point no-xi</b>.</p>																																				
ix.	Requisite funds 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, Forest and Climate Change (MoEF&CC) 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>Being Complied</p> <p>An amount of Rs. 21.0 crores and Rs.2.96 crores has been earmarked towards capital cost and annual recurring cost for implementing the environmental protection measures.</p> <table border="1" data-bbox="695 1507 1559 1883"> <thead> <tr> <th colspan="4">Recurring Cost Incurred on Environmental Safeguard for OMPL-II plant</th> </tr> <tr> <th>Year</th> <th>Particulars</th> <th>Narration</th> <th>Amount</th> </tr> </thead> <tbody> <tr> <td rowspan="3">In Fy. 2023-2024 (October to March)</td> <td>Green Belt Development</td> <td>Maintenance, labour cost, etc.</td> <td>3,75,000.00</td> </tr> <tr> <td>House Keeping &amp; Solid/H.Z Waste Management System</td> <td>Labour charges, Drainage Cleaning and other materials</td> <td>3,20,000.00</td> </tr> <tr> <td>Analysis &amp; Monitoring of Environmental Parameters</td> <td>Stack, Fugitive, Ambient, Water etc. Monitoring &amp; Analysis, In-house Analysis</td> <td>2,15,000.00</td> </tr> </tbody> </table>	Recurring Cost Incurred on Environmental Safeguard for OMPL-II plant				Year	Particulars	Narration	Amount	In Fy. 2023-2024 (October to March)	Green Belt Development	Maintenance, labour cost, etc.	3,75,000.00	House Keeping & Solid/H.Z Waste Management System	Labour charges, Drainage Cleaning and other materials	3,20,000.00	Analysis & Monitoring of Environmental Parameters	Stack, Fugitive, Ambient, Water etc. Monitoring & Analysis, In-house Analysis	2,15,000.00																		
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		O.H. Management & Safety Plan	Occupational Health Management, Risk Mitigation & Safety Plan	1,45,000.00
		O & M on A.P.C Devices	Operation & Maintenance cost, Electricity consumption etc. on A.P.C Device installed.	1,35,00,000.00
<b>TOTAL</b>				<b>1,45,55,000.00</b>

x. 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 shall also be put on the web site of the company by the proponent.

Complied

Copies of EC have been submitted to local bodies, Panchayat and Municipal bodies and also uploaded on the website of the company <http://orissametaliks.com/qehs.html>

xi. 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&CC at Bhubaneswar. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM<sub>10</sub>, SO<sub>2</sub> and NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sectorial 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.

Being Compiled

Compliance reports and monitoring results are being uploaded on the company website [www.orissametaliks.com](http://www.orissametaliks.com) on regular basis.

Regular reports of Monitoring and compliance are submitted to the State Level Environment Impact Assessment Authority, West Bengal & WBPCB regularly. The details of submission are enclosed here with:

Sr. No	Year	Period Up To	Submission Date
1	2016-2017	1 <sup>st</sup> Dec 2016	09.11.2016
		1 <sup>st</sup> June 2017	17.05.2017
2	2017-2018	1 <sup>st</sup> Dec 2017	20.11.2017
		1 <sup>st</sup> June 2018	22.05.2018
3	2018-2019	1 <sup>st</sup> Dec 2018	28.11.2018
		1 <sup>st</sup> June 2019	24.05.2019
4	2019-2020	1 <sup>st</sup> December	14.11.2019
		1 <sup>st</sup> June 2020	29.05.2020
5	2020-2021	1 <sup>st</sup> December	01.12.2020
		1 <sup>st</sup> June, 2021	28.05.2021
6	2021-2022	1 <sup>st</sup> Dec 2021	01.12.2021
		1 <sup>st</sup> June, 2022	26.05.2022
7	2022-2023	1 <sup>st</sup> Dec 2022	21.11.2022
		1 <sup>st</sup> June, 2023	25.05.2023
8	2023-2024	1 <sup>st</sup> Dec 2023	29.11.2023
		--	--

Emission levels of pollutants of different units is displayed on board as per CPCB format issued vide File no-B-29016 NGT/C-10/2020/ WM II/Div./ Dated 20<sup>th</sup> January 2020 outside the main gate of the plant for disclosure to the public and also uploaded on the website of the company <http://orissametaliks.com/qehs.html>.

Electronic display board is installed at plant main gate and online stack emission data a CAAQMS data is also being displayed.



			<p align="center"><b>DIGITAL DISPLAY BOARD</b></p>
<p>xii.</p>	<p>The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEF&amp;CC, 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>	<p align="center">Being Complied</p> <p>This report is being submitted as compliance to this point.</p> <p>The last compliance reports for the period April 2023 to September 2023 submitted vide letter no. - OMPL-KGP/ENV_COMP / December-2023 dated 29/11/2023.</p>	
<p>xiii.</p>	<p>The environmental statement for each financial year ending 31<sup>st</sup>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&amp;CC at Bhubaneswar by e-mail.</p>	<p align="center">Being Complied</p> <p>Environmental Statement for financial year 2022-2023 in Form-V as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, is submitted vide letter no- OMPL-II/ENV_Statement/2023-24 dated 26.09.2023 to the West Bengal Pollution Control Board and also uploaded on the website of the company <a href="http://orissametaliks.com/qehs.html">http://orissametaliks.com/qehs.html</a></p>	
<p>xiv.</p>	<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, Forest and Climate Change (MoEF&amp;CC) at <a href="http://envfor_nic.in">http://envfor_nic.in</a>. This shall be</p>	<p align="center">Complied</p> <p>Advertisement for environment clearance transfer, in two local newspapers that are widely circulated in the region are:</p> <ul style="list-style-type: none"> <li>❖ "Aajkal" (Bengali) dated 17.03.2015 and</li> <li>❖ "Business Standard" (English) dated 17.03.2015 that are widely circulated in the region.</li> </ul>	



	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 forwarded to the Regional office at Bhubaneswar.	
xv.	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.	Noted Company is a private company and no finance is needed from outside.
xvi.	The Ministry may revoke or suspend the clearance, if implementation of any of the above condition is not satisfactory.	Noted
xvii.	The Ministry reserves the right to stipulate additional conditions if found necessary. The company in a time bound manner shall implement these conditions.	Agreed
xviii.	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, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and Rules.	Agreed
<b>F. No. IA3-22/8/2021-IA.III [E 150512] dated 18.07.2022</b>		
I)	Sensitization of project proponents on implementation of ban on Single Use Plastic (SUP).	In order to create awareness among the employees about the harm/ impact of Single Use Plastic on environment , banner and flex are displayed at suitable place like work place, canteen, parking area etc.







# WEST BENGAL POLLUTION CONTROL BOARD

Haldia Regional Laboratory

Raghunathchak, P.O.-Barghasipur, P.S.-Bhabanipur

Haldia, Purba Medinipur - 721 657

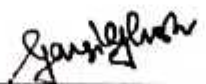
Tel: (03224) 291292


## Analysis Report of Gaseous Emission

Sample ID : 051020230289

1. Name of Industry	: M/s. Orissa Metaliks Pvt. Ltd. (Unit-II)
2. Address	: NH-6, VIII-Gokulpur, P.O.- Shyamraipur, P.S.- Kharagpur (Local), Paschim Medinipur
3. Category & Type	: Red & Pellet Plant
4. Sampling Date	: 04/10/2023
5. Sampled collected by	: K. Sahoo (AEE), HRO
6. Thimble Number	: 635
7. Name of WBPCB Recognized Laboratory	: M/s. Indicative Consultant India
8. Duration of Sampling	: 42 min
9. Height of Stack from ground (m)	: 50.0
10. Cross section of stack at sampling point (m <sup>2</sup> )	: 7.071
11. Stack connected to	: Pellet Pre-Heater-V
12. Emission source (Furnace / Boiler)	: Combustion of Coal & Producer Gas
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.)	: 2900 TPD
16. Fuel used	: Coal & Producer Gas
17. Rated Fuel consumption (Kg or L/hr.)	: -
18. Working Fuel consumption (Kg or L/hr.)	: Coal- 2.8 TPH & Producer Gas-2000 Nm <sup>3</sup> /hr.
19. Nature of Furnace / Boiler	: Pellet Pre-Heater
20. Flue Gas Temp (°C)	: 96.0
21. Flue gas velocity (m/sec)	: 15.58
22. Volume of Flue gas drawn in lit (m <sup>3</sup> )	: 1.008
23. Corrected flue gas volume (Nm <sup>3</sup> )	: 0.9301
24. Percentage CO <sub>2</sub> and or O <sub>2</sub>	: CO <sub>2</sub> - 8.4% & O <sub>2</sub> -10.6%
25. To be compensated at (% , if required)	: -
26. Initial weight of Thimble (g)	: 1.5116
27. Final weight of Thimble (g)	: 1.5162
28. Weight of Particulate Matter (mg)	: 4.60
29. Particulate Matter (mg/Nm <sup>3</sup> )	: 4.95
30. Barometric Pressure Head in mm of Hg	: 753 mm of Hg
31. Diameter of the nozzle (mm)	: 6.35 mm
32. Others	: -

Date of Reporting : 12/10/2023

  
\_\_\_\_\_  
Scientist

  
\_\_\_\_\_  
Senior Scientist

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



# WEST BENGAL POLLUTION CONTROL BOARD

Haldia Regional Laboratory

Raghunathchak, P.O.-Barghasipur, P.S.-Bhabanipur

Haldia, Purba Medinipur – 721 657

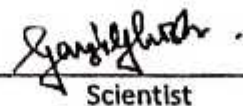
Tel: (03224) 291292

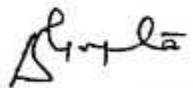
## Analysis Report of Gaseous Emission

Sample ID : 051020230287

1. Name of Industry	:	M/s. Orissa Metaliks Pvt. Ltd (Unit-II)
2. Address	:	NH-6, VIII-Gokulpur, P.O.-Shyamraipur, P.S.-Kharagpur (Local), Paschim Medinipur
3. Category & Type	:	Red & Pellet Plant
4. Sampling Date	:	04/10/2023
5. Sampled collected by	:	K. Sahoo (AEE), HRO
6. Thimble Number	:	632
7. Name of WBPCB Recognized Laboratory	:	M/s. Indicative Consultant India
8. Duration of Sampling	:	44 min
9. Height of Stack from ground (m)	:	50.0
10. Cross section of stack at sampling point (m <sup>2</sup> )	:	7.0714
11. Stack connected to	:	Pellet Pre-Heater-IV
12. Emission source (Furnace / Boiler)	:	Combustion of Coal & Producer Gas
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.)	:	3000 TPD
16. Fuel used	:	Coal & Producer Gas
17. Rated Fuel consumption (Kg or L /hr.)	:	-
18. Working Fuel consumption (Kg or L /hr.)	:	Coal- 1.8 TPH & Producer Gas-2300 Nm <sup>3</sup> /hr.
19. Nature of Furnace / Boiler	:	Pellet Pre- Heater
20. Flue Gas Temp (°C)	:	98.0
21. Flue gas velocity (m/sec)	:	14.55
22. Volume of Flue gas drawn in lit (m <sup>3</sup> )	:	1.012
23. Corrected flue gas volume (Nm <sup>3</sup> )	:	0.9176
24. Percentage CO <sub>2</sub> and or O <sub>2</sub>	:	CO <sub>2</sub> - 8.6% & O <sub>2</sub> -10.6%
25. To be compensated at (% , if required)	:	-
26. Initial weight of Thimble (g)	:	1.4601
27. Final weight of Thimble (g)	:	1.4684
28. Weight of Particulate Matter (mg)	:	8.30
29. Particulate Matter (mg/Nm <sup>3</sup> )	:	9.05
30. Barometric Pressure Head in mm of Hg	:	753 mm of Hg
31. Diameter of the nozzle (mm)	:	6.35 mm
32. Others	:	-

Date of Reporting : 12/10/2023

  
Scientist

  
Senior Scientist

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

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



# WEST BENGAL POLLUTION CONTROL BOARD

Haldia Regional Laboratory

Raghunathchak, P.O.-Barghasipur, P.S.-Bhabanipur

Haldia, Purba Medinipur - 721 657

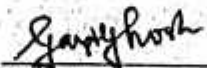
Tel: (03224) 291292

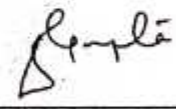
## Analysis Report of Gaseous Emission

Sample ID : 100120240374

1. Name of Industry	: M/s. Orissa Metallks Pvt. Ltd. (Unit-II)
2. Address	: NH-6, Vill-Gokulpur, P.O.-Shyamraipur, P.S.- Kharagpur (Local), Paschim Medinipur
3. Category & Type	: Red, Pellet Plant
4. Sampling Date	: 09/01/2024
5. Sampled collected by	: N. C. Baral (AEE), HRO & S. Mukherjee (JEE), HRO
6. Thimble Number	: 721
7. Name of WBPCB Recognized Laboratory	: M/s. Envirocheck
8. Duration of Sampling	: 36 min
9. Height of Stack from ground (m)	: 50.0
10. Cross section of stack at sampling point (m <sup>2</sup> )	: 7.065
11. Stack connected to	: Pellet Pre Heater-V
12. Emission source (Furnace / Boiler)	: Combustion of Coal & Producer Gas
13. Average operational hours of boiler/furnace (per month)	: 720 hrs.
14. APC System (if any)	: ESP
15. Working load of source (MT/hr.)	: 2900 TPD
16. Fuel used	: Coal & Producer Gas
17. Rated Fuel consumption (Kg or L/hr.)	: -
18. Working Fuel consumption (Kg or L/hr.)	: Coal-2.8 TPH and Producer Gas-2000 Nm <sup>3</sup> /hr.
19. Nature of Furnace / Boiler	: Pellet Pre Heater
20. Flue Gas Temp (°C)	: 97.3
21. Flue gas velocity (m/sec)	: 17.51
22. Volume of Flue gas drawn in lit (m <sup>3</sup> )	: 1.008
23. Corrected flue gas volume (Nm <sup>3</sup> )	: 0.9354
24. Percentage CO <sub>2</sub> and or O <sub>2</sub>	: CO <sub>2</sub> -8.6% & O <sub>2</sub> -10.8%
25. To be compensated at (% if required)	: -
26. Initial weight of Thimble (g)	: 1.4194
27. Final weight of Thimble (g)	: 1.4343
28. Weight of Particulate Matter (mg)	: 19.90
29. Particulate Matter (mg/Nm <sup>3</sup> )	: 21.27
30. Barometric Pressure Head in mm of Hg	: 760 mm of Hg
31. Diameter of the nozzle (mm)	: 6.35 mm
32. Others	: -

Date of Reporting : 11/01/2024

  
Scientist

  
Senior Scientist

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



# WEST BENGAL POLLUTION CONTROL BOARD

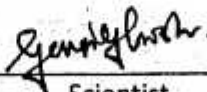
Haldia Regional Laboratory  
Raghunathchak, P.O.-Barghasipur, P.S.-Bhabanipur  
Haldia, Purba Medinipur - 721 657  
Tel: (03224) 291292

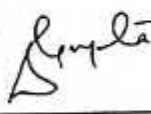
## Analysis Report of Gaseous Emission

Sample ID : 100120240373

1. Name of Industry	: M/s. Orissa Metallks Pvt. Ltd. (Unit-II)
2. Address	: NH-6, VIII-Gokulpur, P.O.-Shyamraipur, P.S.-Kharagpur (Local), Paschim Medinipur
3. Category & Type	: Red, Pellet Plant
4. Sampling Date	: 09/01/2024
5. Sampled collected by	: N. C. Baral (AEE), HRO & S. Mukherjee (JEE), HRO
6. Thimble Number	: 720
7. Name of WBPCB Recognized Laboratory	: M/s. Envirocheck
8. Duration of Sampling	: 34 min
9. Height of Stack from ground (m)	: 50.0
10. Cross section of stack at sampling point (m <sup>2</sup> )	: 7.065
11. Stack connected to	: Pellet Pre Heater-IV
12. Emission source (Furnace / Boiler)	: Combustion of Coal & Producer Gas
13. Average operational hours of boiler/furnace (per month)	: 720 hrs.
14. APC System (if any)	: ESP
15. Working load of source (MT/hr.)	: 3000 TPD
16. Fuel used	: Coal & Producer Gas
17. Rated Fuel consumption (Kg or L /hr.)	: -
18. Working Fuel consumption (Kg or L /hr.)	: Coal-1.8 TPH and Producer Gas-2300 Nm <sup>3</sup> /hr.
19. Nature of Furnace / Boiler	: Pellet Pre Heater
20. Flue Gas Temp (°C)	: 93.0
21. Flue gas velocity (m/sec)	: 17.97
22. Volume of Flue gas drawn in lit (m <sup>3</sup> )	: 1.020
23. Corrected flue gas volume (Nm <sup>3</sup> )	: 0.9599
24. Percentage CO <sub>2</sub> and or O <sub>2</sub>	: CO <sub>2</sub> -8.0% & O <sub>2</sub> -11.2%
25. To be compensated at (% , if required)	: -
26. Initial weight of Thimble (g)	: 1.6092
27. Final weight of Thimble (g)	: 1.6186
28. Weight of Particulate Matter (mg)	: 9.40
29. Particulate Matter (mg/Nm <sup>3</sup> )	: 9.79
30. Barometric Pressure Head in mm of Hg	: 760 mm of Hg
31. Diameter of the nozzle (mm)	: 6.35 mm
32. Others	: -

Date of Reporting : 11/01/2024

  
Scientist

  
Senior Scientist

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

# ONLINE CONTINUOUS EMISSION MONITORING STATIONS

(Period- 1<sup>st</sup> October 2023 to 31<sup>st</sup> March 2024)

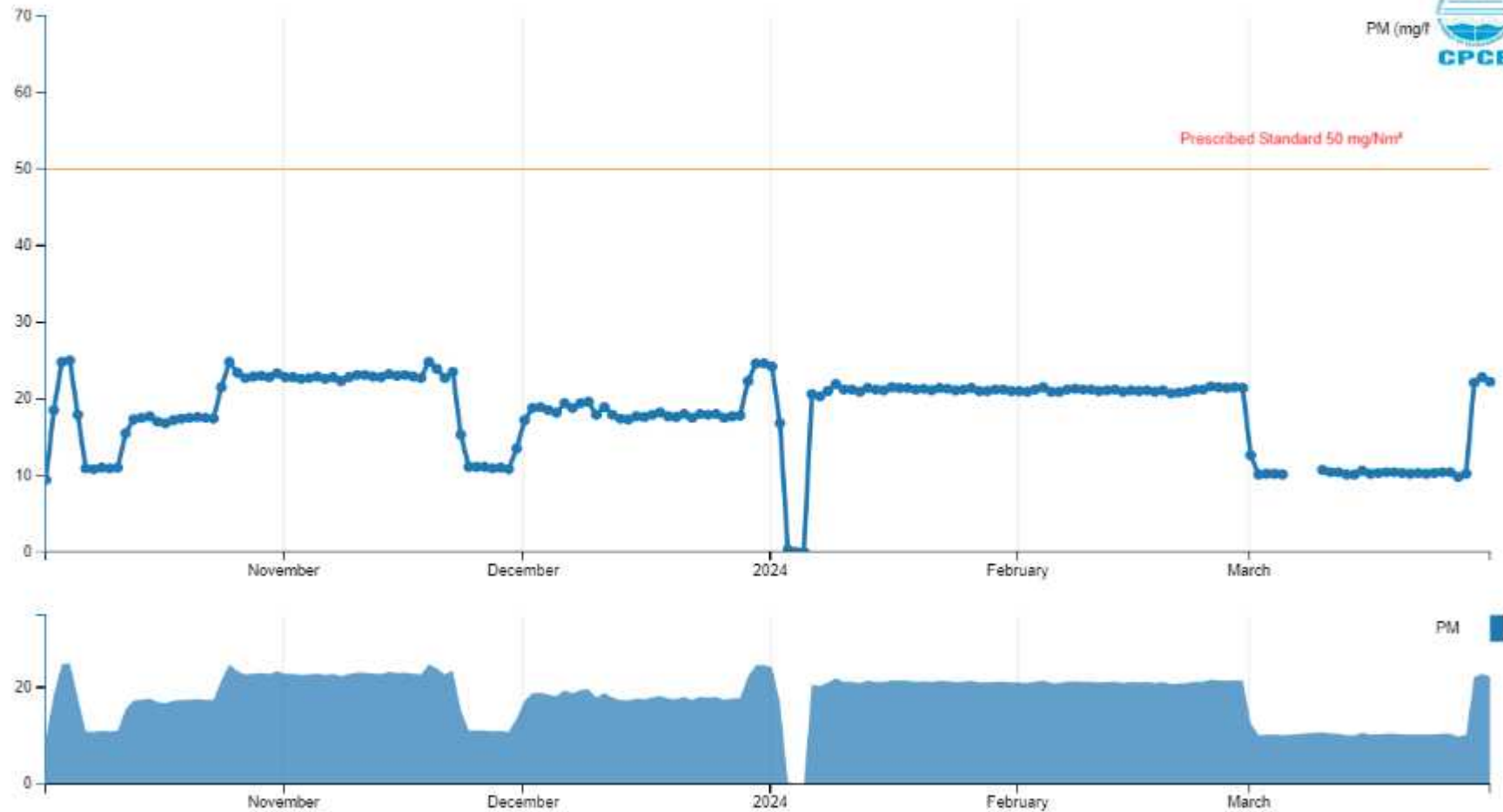
**ORISSA METALIKS PRIVATE LIMITED UNIT-II (Previously Known as Rashmi Metaliks Limited)** Stack-4\_Pellet\_Plant\_ID\_No-IV

Village- Gokulpur, P.S-Shyamraipur, P.O-Khargapur(L), Dist- Paschim Midnapore Khargapur West Bengal 721301

Start Date - 2023-10-01

End Date - 2024-03-31

Average - daily



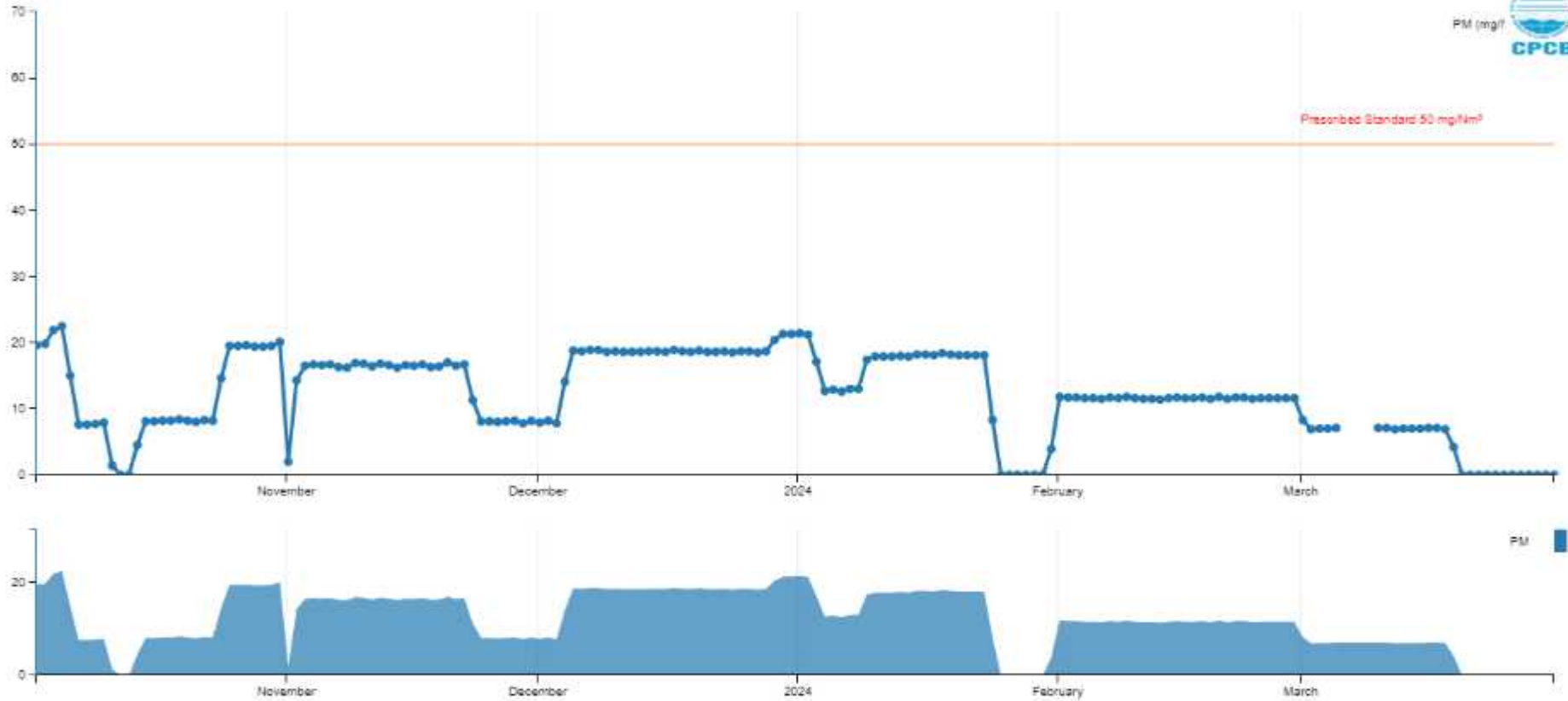
**ORISSA METALIKS PRIVATE LIMITED UNIT-II (Previously Known as Rashmi Metaliks Limited)** 08WB251\_Stack-5\_Pellet\_Plant\_ID\_V

Village- Gokulpur, P.S-Shyamralpur, P.O-Khargapur(L), Dist- Paschim Midnapore Khargapur West Bengal 721301

Start Date - 2023-10-01

End Date - 2024-03-31

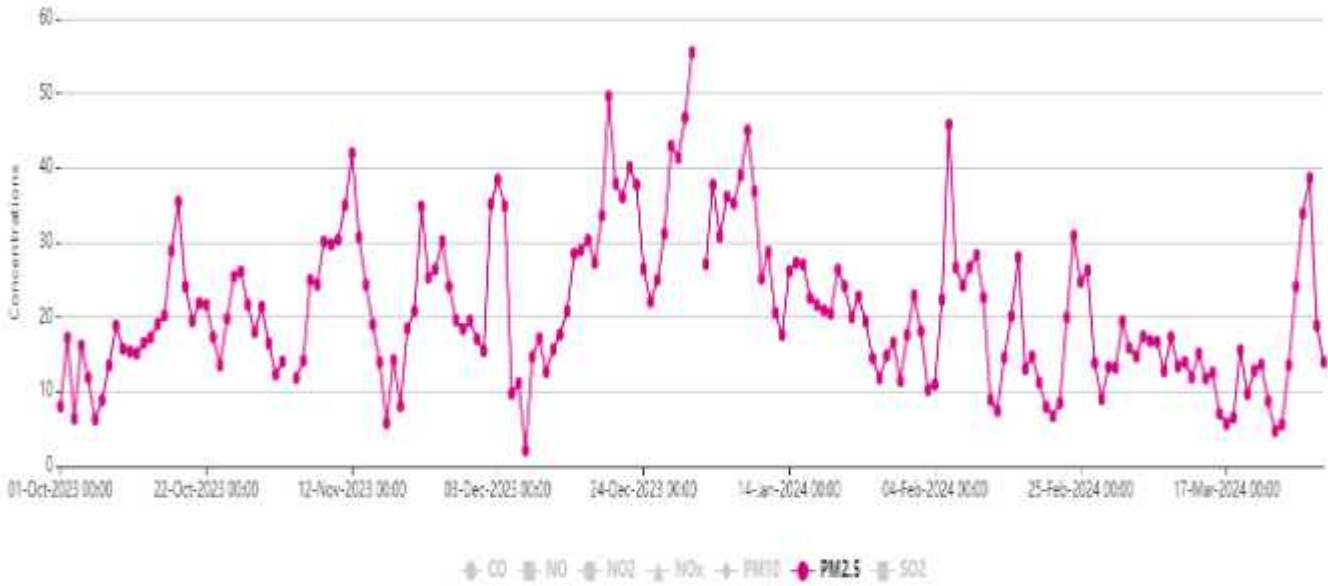
Average - daily



**CAAQMS DATA (OCOPER 2023 to MARCH 2024)**

**LOCATION : KALYANPUR VILLAGE**

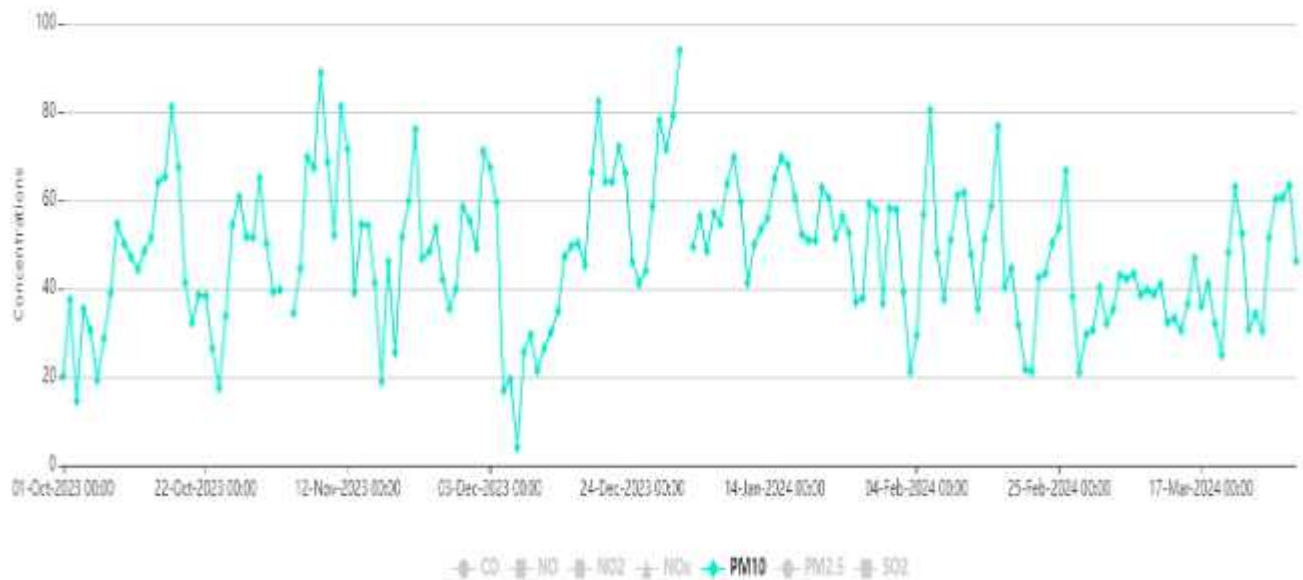
**Parameters : PM 2.5**



16

**LOCATION : KALYANPUR VILLAGE**

**Parameters : PM 10**



16

LOCATION : KALYANPUR VILLAGE

Parameters : SO2



LOCATION : KALYANPUR VILLAGE

Parameters : NOx





LOCATION : RAJOGRAM

Parameters : PM2.5



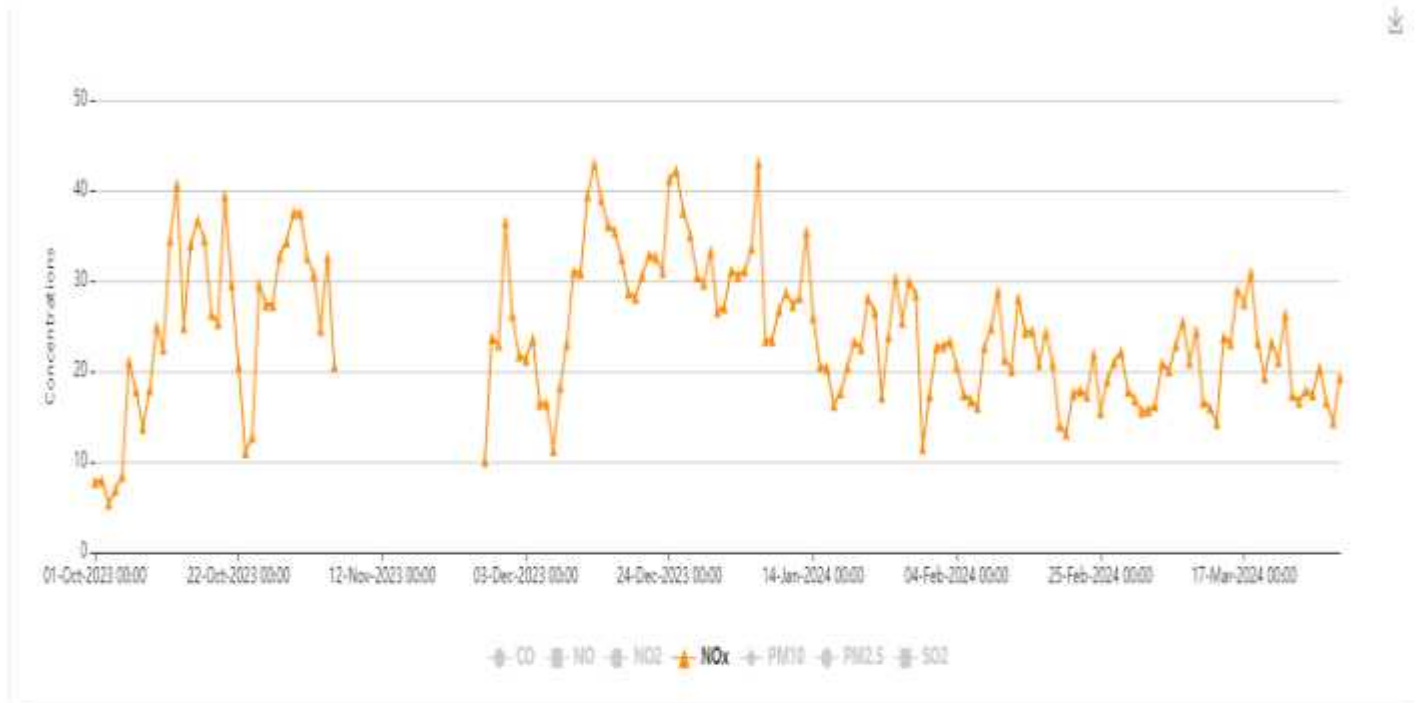
LOCATION : RAJOGRAM

Parameters : SO2



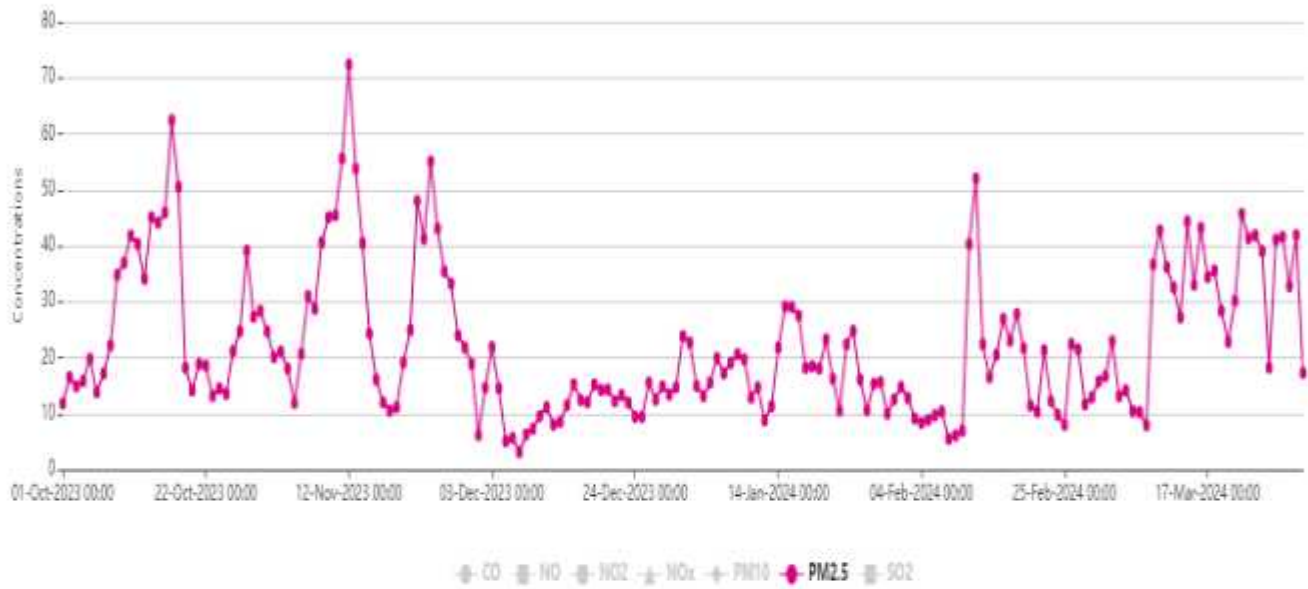
LOCATION : RAJOGRAM

Parameters : NOx



LOCATION : BARKOLA

Parameters : PM2.5



LOCATION : BARKOLA

Parameters : SO2



LOCATION : BARKOLA

Parameters : NOx



LOCATION : BARKOLA

Parameters : CO



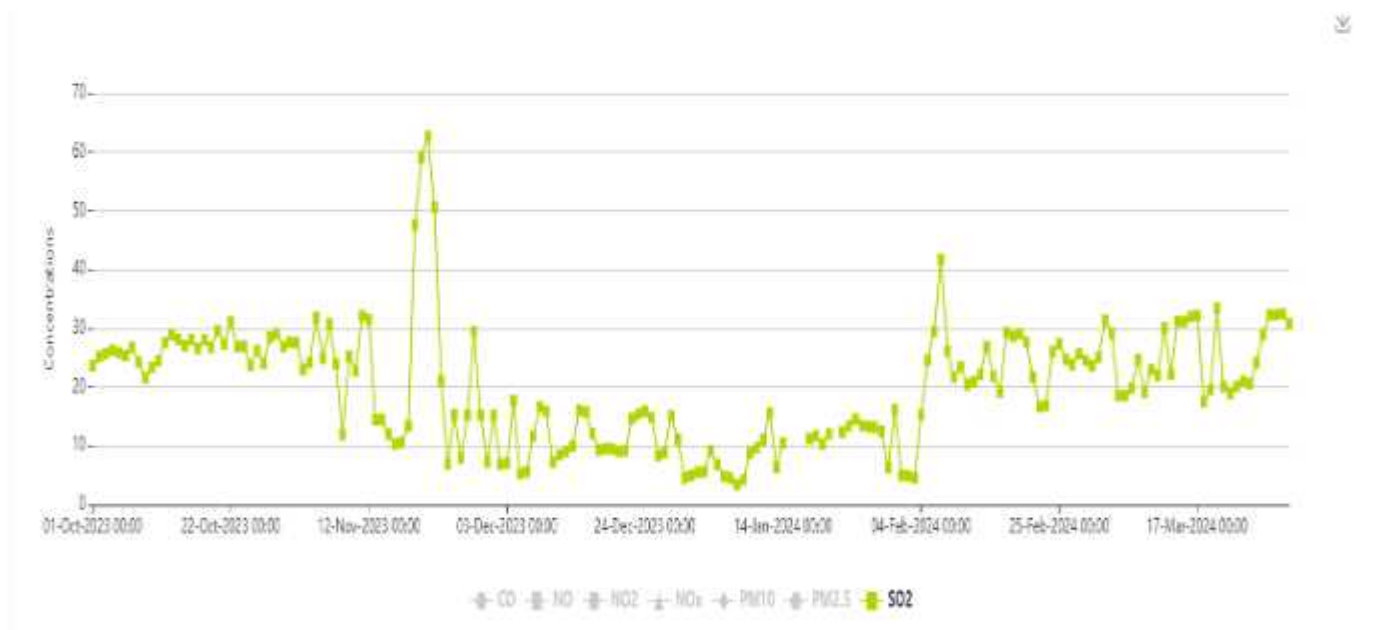
LOCATION : PANCHRULIA

Parameters : PM 2.5



LOCATION : PANCHRULIA

Parameters : SO2



LOCATION : PANCHRULIA

Parameters : NOx

10



LOCATION : PANCHRULIA

Parameters : CO

15





## TEST REPORT

<b>Name &amp; Address Of the Customer :</b> M/s. Orissa Metaliks Pvt. Ltd.(Unit-II) Address: Vill- Gokulpur, P.O- Shyamraipur, P.S- Kharagpur (L), Paschim Medinipur- 721301, West Bengal.	Report No.	: QLS/P-31/23-24/C/16
	Date	: 13.04.2024
	Sample No.	: QLS/P-31/23-24/16
	Sample Description	: Ambient Air
	Date of performance	: 02.04.2024-05.04.2024
Ref No. Date	: O224379375 Dated. 20.02.2024	

## Analysis Result

Location : Rajpura Village		Date of sampling : 31.03.2024		
Sampling Done by: C.Sahoo		Sampling done as per : CPCB Guidelines (Volume-1)		
Environmental Condition : Clear & Sunny				
Sl. No.	Pollutants	Result	LIMIT	Method of Test Reference
1	Particulate matter (<10µm) in µg/m <sup>3</sup>	53	100	IS: 5182 (Part-23)-(RA-2017)
2	Particulate matter (<2.5µm) in µg/m <sup>3</sup>	27	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO <sub>2</sub> ) in µg/m <sup>3</sup>	6.5	80	IS: 5182 (Part-2)-2001, (RA-2017)
4	Nitrogen dioxide (NO <sub>2</sub> ) in µg/m <sup>3</sup>	23.7	80	IS: 5182 (Part- 6)- (RA-2017)
5	Carbon Monoxide (CO) in µg/m <sup>3</sup>	481	2000	IS: 5182 (Part- 10)- (RA-2017)
<b>NOTE:</b> Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.				

Report Prepared By:

Bankar

for Qualissure Laboratory Services  
Reviewed & Authorized By

Benimadhab Gorai, Chemist  
(Authorized Signatory)

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## TEST REPORT

<b>Name &amp; Address Of the Customer :</b>  M/s. Orissa Metaliks Pvt. Ltd.(Unit-II) Address: Vill- Gokulpur, P.O- Shyamraipur, P.S- Kharagpur (L), Paschim Medinipur- 721301, West Bengal.	Report No.	: QLS/P-31/23-24/C/15
	Date	: 13.04.2024
	Sample No.	: QLS/P-31/23-24/15
	Sample Description	: Ambient Air
	Date of performance	: 02.04.2024-05.04.2024
	Ref No. Date	: O224379375 Dated. 20.02.2024

## Analysis Result

Location : Near Plant Main Gate		Date of sampling : 31.03.2024		
Sampling Done by: C.Sahoo		Sampling done as per : CPCB Guidelines (Volume-1)		
Environmental Condition : Clear & Sunny				
Sl. No.	Pollutants	Result	LIMIT	Method of Test Reference
1	Particulate matter (<10µm) in µg/m <sup>3</sup>	75	100	IS: 5182 (Part-23)-(RA-2017)
2	Particulate matter (<2.5µm) in µg/m <sup>3</sup>	40	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO <sub>2</sub> ) in µg/m <sup>3</sup>	6.8	80	IS: 5182 (Part-2)-2001, (RA-2017)
4	Nitrogen dioxide (NO <sub>2</sub> ) in µg/m <sup>3</sup>	24.6	80	IS: 5182 (Part- 6)- (RA-2017)
5	Carbon Monoxide (CO) in µg/m <sup>3</sup>	549	2000	IS: 5182 (Part- 10)- (RA-2017)
<b>NOTE:</b> Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.				

Report Prepared By:

*Banikatz*

for Qualissure Laboratory Services  
Reviewed & Authorized By

*Banikatz*  
Benimadhab Gorai, Chemist  
(Authorized Signatory)

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## TEST REPORT

<b>Name &amp; Address Of the Customer :</b> M/s. Orissa Metaliks Pvt. Ltd.(Unit-II) Address: Vill- Gokulpur, P.O- Shyamraipur, P.S- Kharagpur (L), Paschim Medinipur- 721301, West Bengal	Report No.	: QLS/P-31/23-24/C/17
	Date	: 13.04.2024
	Sample No.	: QLS/P-31/23-24/17
	Sample Description	: Ambient Air
	Date of performance	: 02.04.2024-05.04.2024
	Ref No. Date	: O224379375 Dated. 20.02.2024

## Analysis Result

Location : Gokulpur Village	Date of sampling : 31.03.2024
Sampling Done by: C.Sahoo	Sampling done as per : CPCB Guidelines (Volume-1)

Environmental Condition : Clear & Sunny

Sl. No.	Pollutants	Result	LIMIT	Method of Test Reference
1	Particulate matter (<10 $\mu$ m) in $\mu$ g/m <sup>3</sup>	58	100	IS: 5182 (Part-23)-(RA-2017)
2	Particulate matter (<2.5 $\mu$ m) in $\mu$ g/m <sup>3</sup>	25	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO <sub>2</sub> ) in $\mu$ g/m <sup>3</sup>	6.1	80	IS: 5182 (Part-2)-2001, (RA-2017)
4	Nitrogen dioxide (NO <sub>2</sub> ) in $\mu$ g/m <sup>3</sup>	22.4	80	IS: 5182 (Part- 6)- (RA-2017)
5	Carbon Monoxide (CO) in $\mu$ g/m <sup>3</sup>	481	2000	IS: 5182 (Part- 10)- (RA-2017)

**NOTE:** Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.

Report Prepared By:

*Banikar*

for Qualissure Laboratory Services  
Reviewed & Authorized By



Benimadhab Gorai, Chemist  
(Authorized Signatory)

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## TEST REPORT

<b>Name &amp; Address Of the Customer :</b> M/s. Orissa Metaliks Pvt. Ltd.(Unit-II) Address: Vill- Gokulpur, P.O- Shyamraipur, P.S- Kharagpur (L), Paschim Medinipur- 721301, West Bengal.	Report No.	: QLS/P-31/23-24/C/18
	Date	: 13.04.2024
	Sample No.	: QLS/P-31/23-24/18
	Sample Description	: Ambient Air
	Date of performance	: 03.04.2024-05.04.2024
Ref No. Date	: O224379375 Dated. 20.02.2024	

## Analysis Result

Location : Dhekia Village		Date of sampling : 31.03.2024		
Sampling Done by: C.Sahoo		Sampling done as per : CPCB Guidelines (Volume-1)		
Environmental Condition : Clear & Sunny				
Sl. No.	Pollutants	Result	LIMIT	Method of Test Reference
1	Particulate matter (<10 $\mu$ m) in $\mu$ g/m <sup>3</sup>	65	100	IS: 5182 (Part-23)-(RA-2017)
2	Particulate matter (<2.5 $\mu$ m) in $\mu$ g/m <sup>3</sup>	38	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO <sub>2</sub> ) in $\mu$ g/m <sup>3</sup>	6.6	80	IS: 5182 (Part-2)-2001, (RA-2017)
4	Nitrogen dioxide (NO <sub>2</sub> ) in $\mu$ g/m <sup>3</sup>	24.0	80	IS: 5182 (Part- 6)- (RA-2017)
5	Carbon Monoxide (CO) in $\mu$ g/m <sup>3</sup>	492	2000	IS: 5182 (Part- 10)- (RA-2017)
<b>NOTE:</b> Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.				

Report Prepared By:

*Ranjan*

for Qualissure Laboratory Services  
Reviewed & Authorized By

*Benimadhab Gorai*  
Benimadhab Gorai, Chemist  
(Authorized Signatory)

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## TEST REPORT

<b>Name &amp; Address Of the Customer :</b> <b>M/s. Orissa Metaliks Pvt. Ltd.(Unit-II)</b> Address: Vill- Gokulpur, P.O- Shyamraipur, P.S- Kharagpur (L), Paschim Medinipur- 721301, West Bengal.	Report No.	: QLS/P-31/23-24/C/19
	Date	: 13.04.2024
	Sample No.	: QLS/P-31/23-24/19-24
	Date of Performance	: 02.04.2024-05.04.2024
	Sample Description	: Fugitive Air
	Ref No. Date	: O224379375 Dated. 20.02.2024

## Analysis Result of Fugitive Air

Sampling Done by: C.Sahoo			
Environmental Condition : Sunny & Clear			
Sampling done as per : CPCB Guidelines (Volume-1)			
Sample No.	Location	Date of Sampling	(SPM) in $\mu\text{g}/\text{m}^3$
19	Pellet Plant Area I & II	31.03.2024	310
20	MBF & Oxygen Plant area	31.03.2024	431
21	Railway Siding	31.03.2024	250
22	Iron or Beneficiation Area	31.03.2024	385
23	Product House	31.03.2024	281
24	Pellet Plant Area III & IV	31.03.2024	252
<b>NOTE:</b> Fugitive emission Standard - 2000 $\mu\text{g}/\text{m}^3$			

Report Prepared By:

*Ballesh*

for Qualissure Laboratory Services  
 Reviewed & Authorized By

*Ballesh*  
 Benimadhab Gorai, Chemist  
 (Authorized Signatory)

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## TEST REPORT

<b>Name &amp; Address Of the Customer :</b> <b>M/s. Orissa Metaliks Pvt. Ltd.(Unit-II)</b> Address: VIII- Gokulpur, P.O- Shyamraipur, P.S- Kharagpur (L), Paschim Medinipur- 721301, West Bengal.	Report No.	: QLS/P-31/23-24/C/29
	Date	: 25.04.2024
	Sample No.	: QLS/P-31/23-24/29
	Sample Description	: Effluent
	Sample Mark	: STP Outlet
	Sample Drawn On	: 31.03.2024
	Date of Performance	: 02.04.2024-10.04.2024
Ref No. Date	: O224379375 Dated. 20.02.2024	

## Analysis Result

Sl. No.	Parameter	TEST METHOD	Result	Limit as per CPCB for discharge of effluents	
				Inland Surface Water	Public Sewers
1.	pH at 25 <sup>o</sup> C	APHA 24 <sup>th</sup> Edition-2023, 4500 H+	7.54	5.5 to 9.0	5.5 to 9.0
2.	Total Suspended Solid (as TSS) in mg/l	APHA 24 <sup>th</sup> Edition-2023, 2540 D	18	100	600
3.	Chemical Oxygen Demand (as COD) mg/l	APHA 24 <sup>th</sup> Edition-2023, 5220B	58	250	---
4.	Biochemical Oxygen Demand (as BOD) mg/l	IS 3025 (Part 44)-1993, RA:2019	14	30	350
5.	Oil & Grease in mg/l	APHA 24 <sup>th</sup> Edition-2023, 5520 B	<1.4	10	20

Report Prepared By:

for Qualissure Laboratory Services  
 Reviewed & Authorized By

Bishnupriya Banerjee, Chemist  
 (Authorized Signatory)

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## TEST REPORT

<b>Name &amp; Address Of the Customer :</b> M/s. Orissa Metaliks Pvt. Ltd.(Unit-II) Address: Vill- Gokulpur, P.O- Shyamraipur, P.S- Kharagpur (L), Paschim Medinipur- 721301, West Bengal.	Report No.	: QLS/P-31/23-24/C/27
	Date	: 25.04.2024
	Sample No.	: QLS/P-31/23-24/27
	Sample Description	: Effluent
	Sample Mark	: ETP Inlet
	Sample Drawn On	: 31.03.2024
	Date of Performance	: 02.04.2024-10.04.2024
Ref No. Date	: O224379375 Dated. 20.02.2024	

## Analysis Result

Sl. No.	Parameter	TEST METHOD	Result	Limit as per CPCB for discharge of effluents	
				Inland Surface Water	Public Sewers
1.	pH at 25 <sup>o</sup> C	APHA 24 <sup>th</sup> Edition-2023, 4500 H+	7.23	5.5 to 9.0	5.5 to 9.0
2.	Total Suspended Solid(as TSS) in mg/l	APHA 24 <sup>th</sup> Edition-2023, 2540 D	80	100	600
3.	Chemical Oxygen Demand (as COD) mg/l	APHA 24 <sup>th</sup> Edition-2023, 5220B	214	250	---
4.	Biochemical Oxygen Demand (as BOD) mg/l	IS:3025 (Part 44)-1993, RA:2019	64	30	350
5.	Oil & Grease in mg/l	APHA 24 <sup>th</sup> Edition-2023, 5520B	7.9	10	20

Report Prepared By:

for Qualissure Laboratory Services  
Reviewed & Authorized By

Bishnupriya Banerjee, Chemist  
(Authorized Signatory)

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## TEST REPORT

<b>Name &amp; Address Of the Customer :</b> <b>M/s. Orissa Metaliks Pvt. Ltd.(Unit-II)</b> Address: Vill- Gokulpur, P.O- Shyamraipur, P.S- Kharagpur (L), Paschim Medinipur- 721301, West Bengal.	Report No.	: QLS/P-31/23-24/C/28
	Date	: 25.04.2024
	Sample No.	: QLS/P-31/23-24/28
	Sample Description	: Effluent
	Sample Mark	: ETP Outlet
	Sample Drawn On	: 31.03.2024
	Date of Performance	: 02.04.2024-10.04.2024
Ref No. Date	: O224379375 Dated. 20.02.2024	

## Analysis Result

Sl. No.	Parameter	TEST METHOD	Result	Limit as per CPCB for discharge of effluents	
				Inland Surface Water	Public Sewers
1.	pH at 25 <sup>o</sup> C	APHA 24 <sup>th</sup> Edition-2023, 4500 H+	7.37	5.5 to 9.0	5.5 to 9.0
2.	Total Suspended Solid (as TSS) in mg/l	APHA 24 <sup>th</sup> Edition-2023, 2540 D	22	100	600
3.	Chemical Oxygen Demand (as COD) mg/l	APHA 24 <sup>th</sup> Edition-2023, 5220B	58	250	---
4.	Biochemical Oxygen Demand (as BOD) mg/l	IS 3025 (Part 44)-1993, RA:2019	12	30	350
5.	Oil & Grease in mg/l	APHA 24 <sup>th</sup> Edition-2023, 5520 B	<1.4	10	20

Report Prepared By:

for Qualissure Laboratory Services  
Reviewed & Authorized By

Bishnupriya Banerjee, Chemist  
(Authorized Signatory)

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## TEST REPORT

<b>Name &amp; Address Of the Customer :</b>  <b>M/s. Orissa Metaliks Pvt. Ltd.(Unit-II)</b> Address: Vill- Gokulpur, P.O- Shyamraipur, P.S- Kharagpur (L), Paschim Medinipur- 721301, West Bengal.	ULR No.	: TC62712400000527F
	Report No.	: QLS/P-31/23-24/C/30
	Date	: 27.04.2024
	Sample No.	: QLS/P-31/23-24/30
	Sample Description	: Drinking Water
	Sample Mark	: Tap of Iron Ore Area
	Sample Drawn On	: 31.03.2024
	Date of performance	: 02.04.2024-10.04.2024
	Ref No. Date	: O224379375 Dated. 20.02.2024

## Analysis Result

### (A) Microbiological Analysis

Sl.No.	Characteristic	Limit as per IS 10500; 2012 Amd. 2	Test Method	Result
1.	Total Coliform Bacteria/100ml	Not Detectable	IS 15185-2016 (RA 2021)	Not Detected
2.	E Coli/100ml	Not Detectable	IS 15185-2016 (RA 2021)	Not Detected

### (B) Chemical Analysis

Sl.No.	Test Parameter	Test Method	IS 10500:2012Amd. No. 1 & 2		Result
			Acceptable Limit	Permissible Limit	
1.	Colour in Hazen Units	IS 3025 (Part 4): 2021	5	15	<5
2.	Odour	IS 3025 (Part 5): 2022	Agreeable	Agreeable	Agreeable
3.	pH Value at 25°C	IS 3025 (Part 11): 2022	6.5-8.5	No Relaxation	7.26
4.	Turbidity in NTU	IS 3025 (Part 10): 2023	1	5	<1.0
5.	Total Dissolved Solids (as TDS) in mg/l	IS 3025 (Part 16): 2023	500	2000	408
6.	Aluminium (as Al) in mg/l	IS 3025 (Part 55): 2003 (RA 2019)	0.03	0.2	<0.01
7.	Ammonia as NH <sub>3</sub> in mg/l	IS 3025 (Part 34): 1988 (RA 2019)	0.5	No Relaxation	<0.5
8.	Calcium (as Ca) in mg/l	IS 3025 (Part 40): 2023	75	200	23.3
9.	Chloride (as Cl) in mg/l	IS 3025 (Part 32): 1988 (RA 2019)	250	1000	64.6
10.	Copper (as Cu) in mg/l	IS 3025 (Part 42): 1992 (RA 2019)	0.05	1.5	<0.02
11.	Fluoride (as F) in mg/l	APHA 24 <sup>th</sup> Edition 2023, 4500 F.D	1.0	1.5	0.82
12.	Free Residual Chlorine in mg/l	IS 3025 (Part 26): 2021	0.2	1.0	<0.1
13.	Iron (as Fe) in mg/l	IS 3025 (Part 53): 1988 (RA 2019)	0.3	No Relaxation	0.32
14.	Magnesium (as Mg) in mg/l	APHA 24 <sup>th</sup> Edition 2023, 3500 Mg B	30	100	19.6
15.	Manganese (as Mn) in mg/l	IS 3025 (Part 59): 2023	0.1	0.3	<0.02
16.	Nitrate (as NO <sub>3</sub> ) in mg/l	IS 3025 (Part 34): 1988 (RA 2019)	45	No Relaxation	0.68
17.	Sulphate (as SO <sub>4</sub> ) in mg/l	IS 3025 (Part 24): Sec1, 2022	200	400	34.3
18.	Alkalinity (as CaCO <sub>3</sub> ) in mg/l	IS 3025 (Part 23): 2023	200	600	79.8
19.	Total Hardness (as CaCO <sub>3</sub> ) in mg/l	IS 3025 (Part 21): 2009 (RA 2019)	200	600	139.7
20.	Cadmium (as Cd) in mg/l	IS 3025 (Part 41): 2023	0.003	No Relaxation	<0.002
21.	Cyanide (as CN) in mg/l	IS 3025 (Part 27): 1986 (RA 2019)	0.05	No Relaxation	<0.02
22.	Lead (as Pb) in mg/l	IS 3025 (Part 47): 1994 (RA 2019)	0.01	No Relaxation	<0.01
23.	Mercury (as Hg) in mg/l	IS 3025 (Part 48): 1994 (RA 2019)	0.001	No Relaxation	<0.001
24.	Arsenic (as As) in mg/l	IS 3025 (Part 37): 2022	0.01	0.05	<0.01
25.	Zinc (as Zn) in mg/l	IS 3025 (Part 49): 1994 (RA 2019)	5	15	<0.02
26.	Total Chromium (as Cr) in mg/l	IS 3025 (Part 52): 2014 (RA 2019)	0.05	No Relaxation	<0.05

Report Prepared By:

for Qualissure Laboratory Services  
Reviewed & Authorized By

S. Chakraborty  
Soumy Chakraborty, Microbiologist  
(Authorized Signatory)

for Qualissure Laboratory Services  
Reviewed & Authorized By

Bishnupriya Banerjee, Chemist  
(Authorized Signatory)

-----End of the Report-----

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# ANNEXURE-VIII

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

1 a)	<b>Name of the Project :</b>	M/s Orissa Metaliks Private Limited (II)- <ul style="list-style-type: none"> <li>• Proposed Iron ore beneficiation/wet grinding plant (matching with pellet capacity), Pellet Plant (2.2 MTPA), Producer gas Plant (480 TPD or 75000 Nm<sup>3</sup>/Hr) and Coke oven Plant (0.225 MTPA) along with 15 MW WHRB based Captive Power Plant.</li> <li>• Expansion of Steel Plant (0.5 MTPA MBF and SMS) by adding Matching beneficiation cum Pellet plant to produce 2.2 MTPA (2 x 1.1 MTPA) with producer gas plant (75000 Nm<sup>3</sup>/Hr)</li> <li>• Mini Blast Furnace (1 x 320m<sup>3</sup>)-4,50,000 TPA with matching PCM and 200 TPD Oxygen Plant.</li> </ul>
1 b)	<b>Environment Clearance Nos. :</b>	<ul style="list-style-type: none"> <li>• F. NO. – J-11011/182/2012-IA II (I) DATED: 24<sup>TH</sup> FEBRUARY, 2015; MEMO NO. 264-2N-29/2019(E)-PT dated 23<sup>RD</sup> AUGUST, 2020 AND MEMO NO. 131-2N-29/2019(E)-PT dated 16<sup>TH</sup> MARCH 2022.</li> <li>• F. NO. – J-11011/604/2010-IA II(I), DATED 1<sup>ST</sup> JUNE ,2012,4<sup>TH</sup> JANUARY ,2017 &amp; 2<sup>ND</sup> JUNE ,2017, MEMO NO. 264-2N-29/2019(E)-PT dated 23<sup>RD</sup> AUGUST, 2020 AND MEMO NO. 131-2N-29/2019(E)-PT dated 16<sup>TH</sup> MARCH 2022.</li> <li>• F.NO. – J-11011/229/2007-IA II (I) DATED 07.07.2021 AND MEMO NO. 131-2N-29/2019(E)-PT dated 16<sup>TH</sup> MARCH 2022.</li> </ul>
2	<b>Location, Block/ Sub. Divn. / Dist/ State:</b>	Mouja- Dhekia, Khidipur& Sujatpur, at Village - Gokulpur, Tehsil – Kharagpur, District - Paschim Medinipur, West Bengal
3	<b>Address for communication :</b>	1, Grastin Place, Orbit House, 3 <sup>RD</sup> Floor, Room No - 3B Kolkata – 700 001(WB)
4	<b>Existing vegetation in the area/ region</b>	Vacant Land
4 a	Species ( trees/shrubs/grasses/climbers)	Not Applicable
4 b	Major prevalent species of each type	Not Applicable
5	<b>Land coverage by the project</b>	
5 a	Total area under the project	70.0 Acres
5 b	Area covered for basic infrastructure (roads/building/factory etc.)	46.57 Acres
6	<b>Details about natural vegetation</b>	Vacant Land
6 a	Name and number of tree/ species felled	Not Applicable
6 b	Name and number of plant species still available in the area	Not Applicable
6 c	By protecting the area will indigenous stock come up	Not Applicable
6 d	Extent of greenbelt developed	23.43 Acres (33%)
7	<b>Plantations required to be carried out as per</b>	



	a	Conditions of Environmental Clearance in ha./ Nos.		23.80 Acres (34%)												
	b	Conditions for Forest act ( c ) clearance in ha./ Nos.		Not Applicable												
	c	Voluntarily in no. for green belt development in nearby area (Oct. 2022-March 2023)		Nil												
<b>Details of plantations</b>																
8	a	Plantation details (category wise & methodology used)	Year of plantation		Species Planted	Quantity										
			2023-2024(October-March)		BOKUL	100										
					ARECA PALM	110										
					NEEM	60										
					CONOCARPAS	200										
					AKASMONI	180										
					KANCHAN	70										
					KARANJA	30										
					KELENDRA	25										
					GULMOHOR	65										
CHHATIM	50															
		RADHACHURA	60													
Survival of plantation		Before 2019	2019-2021	2021-2022	2022-2023	2023-2024										
- Total Seedling/ Plantation (No.)		14250	20,000	3,000	8558	950										
- Survival Trees (No ) as on date from date of EC		7825	17,400	2,640	7,581	853										
- Survival		55%	87%	88%	89%	90%										
9	Agency carrying out plantation and maintenance		Our own horticulture department & third party													
10	Financial details (year wise) plantation wise and item wise		<table border="1"> <thead> <tr> <th>Sl. No.</th> <th>Year</th> <th>Funds allocated (Rupees)</th> <th colspan="2">Expenditure made including voluntarily tree plantation cost (Rupees)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2023 - 24</td> <td>90,000</td> <td colspan="2">490000</td> </tr> </tbody> </table>				Sl. No.	Year	Funds allocated (Rupees)	Expenditure made including voluntarily tree plantation cost (Rupees)		1	2023 - 24	90,000	490000	
Sl. No.	Year	Funds allocated (Rupees)	Expenditure made including voluntarily tree plantation cost (Rupees)													
1	2023 - 24	90,000	490000													



FORM NO. 17

1. Serial No. in the Register of adult worker: 31704  
 2. Name of worker: SRI DHAR ANAND  
 3. Sex: MAL E

[ Prescribed under Rules 63 & 64 of the West Bengal Factories Rules 1918 ]

HEALTH

REGISTER

As amended vide Notification No. 113-LW-08-151 dated 27th Nov. 1991

4. Date of birth: 05.07.1980  
 5. Medical examination and the results thereof

If declared unfit for work

Examination made	Name of examining person	Examination conducted at	Name of job or occupation	Part especially mentioned in Paragraph 23B of the Rules 1918	Date of finding	Date of medical report made	Remarks for medical fitness to work	Remarks for declaration of being unfit for work
Physical & Mechanical			Iron work		02-12-19			
Eye - 9			Iron work		02-12-19			
Eye - 9			Iron work		02-12-19			

Name of worker	Serial No.	Part of the body examined	Remarks for being unfit for work	Date of finding the worker unfit	Date of issue of the Certificate	Signature with seal of the Medical Officer or the Factory Inspector
Sri Dhara Anand	31704	Physical & Mechanical	Fit			[Signature]
Sri Dhara Anand	31704	Eye - 9	Fit			[Signature]
Sri Dhara Anand	31704	Eye - 9	Fit			[Signature]

1. Entries in this Register should be recorded in duplicate.  
 2. First copy should be kept in self possession.

FORM NO. 17

HEALTH

1. Serial No. in the Register of adult workers: 21896  
 2. Name of worker: TAJKASH SAHA  
 3. Sex: Male

[ Prescribed under Rules 42A W of the West Bengal Factories Rules 1966 ]

Registration No.	Name of worker	Designation	Department	Date of birth	Sex	Height	Weight	Remarks	Signature of Medical Officer
21896	Tajkash Saha	Mechanic	247 Tuglak Millery	01-07-1915	M	5'0"	110 lbs		
21897	Tajkash Saha	Mechanic	247 Tuglak Millery	01-07-1915	M	5'0"	110 lbs		
21898	Tajkash Saha	Mechanic	247 Tuglak Millery	01-07-1915	M	5'0"	110 lbs		

REGISTER

as amended with Notification No. 1481-LW-28-195 dated 27th Nov. 1951  
 1. Date of birth: 01-07-1915  
 2. Medical examination and the result thereof

Name of worker & registration No.	Age	Period of temporary absence from work	Remarks	Date of medical examination	Date of next medical examination	Signature of Medical Officer
21896 Tajkash Saha	35			01-07-1915		[Signature]
21897 Tajkash Saha	35			01-07-1915		[Signature]
21898 Tajkash Saha	35			01-07-1915		[Signature]

Form 17 - Section 42A W of the West Bengal Factories Rules 1966  
 2. For use only by the Medical Officer

FORM NO. 17

HEALTH

1. Serial No. in the Register of adult workers: 218517  
 2. Name of worker: JAMES LATHAN, JR. S. F. 100  
 3. Sex: Male

(Prescribed under Rules 63 & 64 of the West Bengal Factories Rules 1950)

Department	Name of Supervisor	Attendance Certificate	Number of days of non-attendance	Any infectious disease or communicable disease as reported to	Date of joining	Date of leaving	Reason for leaving	Remarks
Plant 4		SR			12-6-19			
Plant 7	SR Manager				11-6-19			
Plant 4	SR Manager				11-6-19			

REGISTER

No.

as amended till Notification No. 1335-LW-GB (W) dated 17th Nov. 1981  
 4. Date of birth: 07-07-1922  
 5. Medical examination and the results thereof

If fit and well for work

Name of worker	Age	Result of Medical Examination	Reason for not working	Date of joining	Date of leaving	Remarks
James Lathan, Jr. S. F. 100	67	Fit				
James Lathan, Jr. S. F. 100	67	Fit				
James Lathan, Jr. S. F. 100	67	Fit				

Note - 1. Register kept in duplicate in industrial premises.  
 2. This entry must be made by all employers.

FORM NO. 17

HEALTH

1. Serial No. in the Register of sick worker: 33650  
 2. Name of worker: JAYANTA KUMAR SAHAI  
 3. Sex: [M/F]

[Prescribed under Rules 43 & 44 of the West Bengal Factories Rules 1948]

Employee's name	Name of Employer or Firm	Occupation of Employer	Address of Employer	Has employee worked in hazardous work in the past?	Date of Birth	Date of last medical examination	Result of the last medical examination	Remarks
JAYANTA KUMAR SAHAI					02.11.51			
JAYANTA KUMAR SAHAI					02.11.51			
JAYANTA KUMAR SAHAI					02.11.51			

REGISTER

No.

as amended vide Notification No. 1183-LN-ER-(91) dated 17th Nov. 1991

4. Date of issue: 09.03.1987  
 5. Medical examination and the results thereof






If detained under for work

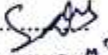
Name of Sick Worker	Age	Date of Expiry of Certificate	Reason for sick certificate	Date of return to work	Date of expiry of certificate	Remarks
JAYANTA KUMAR SAHAI	35	02.11.51				
JAYANTA KUMAR SAHAI	35	02.11.51				
JAYANTA KUMAR SAHAI	35	02.11.51				

Approved by the Government of West Bengal  
 1. This form shall be used for all workers.

**FORM NO. 17A**

**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		
46	pellet 5 operator	<del>Asish</del> Debasish Mahanta	M	29 yrs	operator	12.7.18	23.3.24	DB<math>\frac{6}{6}</math>		Fit
47	pellet 5 operator	Mukundadev Pradhan 31977	M	42 yrs	Sr. operator	19.7.19	23.3.24	DB<math>\frac{6}{6}</math>		Fit
48	MBF 2 Mech	Pritham Pritya Khare 33035	M	28 yrs.	Engg	9.9.21	23.3.24	DB<math>\frac{6}{6}</math>		Fit
49	MBF 2 operator	Kamal Das Prasad 31280	M	61 yrs	Guest House operator	14.7.18	23.3.24	DB<math>\frac{6}{6}</math>		Fit
50	MBF 2 operator	Subrata Mandal 33460	M	26 yrs.	ASST-Engineer	23.9.22	23.3.24	DB<math>\frac{6}{6}</math>		Fit

Dr.   
 Regd. JP. Sanjay  
 MBBS - DLO  
 (Ophthalmologist)  
 Ophthalmologist of Seal

27.03.24



## TEST REPORT

<b>Name &amp; Address Of the Customer :</b> <b>M/s. Orissa Metaliks Pvt. Ltd.(Unit-II)</b> Address: Vill- Gokulpur, P.O- Shyamraipur, P.S- Kharagpur (L), Paschim Medinipur- 721301, West Bengal.	Report No.	: QLS/P-31/23-24/C/25A
	Date	: 13.04.2024
	Sample No.	: QLS/P-31/23-24/25A
	Date Of Performance	: 02-05.04.2024
	Sample Description	: Noise Monitoring
	Ref No. Date	: O224379375 Dated. 20.02.2024

## Monitoring Result of Noise

Sampling Done By: C.Sahoo			
Sampling Guideline : As per IS: 9876: 1981 (RA-2001)			
Location : Near Pellet Plant Area			
Date of Monitoring : 31.03.2024			
Time	Lmax dB (A)	Lmin dB (A)	Avg. dB (A)
06.00-07.00	47.4	46.0	46.8
07.00-08.00	48.4	47.5	48.1
08.00-09.00	50.2	49.3	49.7
09.00-10.00	51.4	49.8	50.5
10.00-11.00	60.2	57.2	59.4
11.00-12.00	64.2	56.2	60.6
12.00-13.00	63.0	52.3	57.0
13.00-14.00	62.3	51.0	56.9
14.00-15.00	61.8	51.2	56.5
15.00-16.00	63.8	50.2	57.1
16.00-17.00	63.2	55.2	60.4
17.00-18.00	64.5	53.2	60.8
18.00-19.00	67.5	51.2	60.3
19.00-20.00	64.5	53.2	60.2
20.00-21.00	62.1	51.2	58.7
21.00-22.00	59.2	53.3	57.1
22.00-23.00	57.1	50.2	54.7
23.00-00.00	55.3	51.2	54.0
00.00-01.00	52.3	51.0	51.6
01.00-02.00	51.2	50.3	50.9
02.00-03.00	49.4	48.7	49.1
03.00-04.00	48.0	47.2	47.6
04.00-05.00	46.5	45.6	46.2
05.00-06.00	45.3	44.2	44.9

Leq dB Day Time	Leq dB Night Time	Average dB
59.4	50.3	54.1

Report Prepared By:

*Banikar*

for Qualissure Laboratory Services  
 Reviewed & Authorized By

*Banikar*  
 Benimadhab Gorai, Chemist  
 (Authorized Signatory)

-----End of the Report-----

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## TEST REPORT

<b>Name &amp; Address Of the Customer :</b> M/s. Orissa Metaliks Pvt. Ltd.(Unit-II) Address: VIII- Gokulpur, P.O- Shyamraipur, P.S- Kharagpur (L), Paschim Medinipur- 721301, West Bengal.	Report No.	: QLS/P-31/23-24/C/25C
	Date	: 13.04.2024
	Sample No.	: QLS/P-31/23-24/25C
	Date Of Performance	: 02-05.04.2024
	Sample Description	: Noise Monitoring
	Ref No. Date	: O224379375 Dated. 20.02.2024

## Monitoring Result of Noise

Sampling Done By: C.Sahoo			
Sampling Guideline : As per IS: 9876: 1981 (RA-2001)			
Location : Near Railway Siding			
Date of Monitoring : 31.03.2024			
Time	Lmax dB (A)	Lmin dB (A)	Avg. dB (A)
06.00-07.00	60.6	50.2	56.0
07.00-08.00	63.0	58.6	61.6
08.00-09.00	65.1	60.3	63.0
09.00-10.00	64.6	60.2	62.9
10.00-11.00	62.3	54.8	58.5
11.00-12.00	62.3	50.2	56.3
12.00-13.00	64.7	52.3	59.8
13.00-14.00	64.8	56.8	60.7
14.00-15.00	59.2	51.8	54.9
15.00-16.00	59.8	54.8	57.3
16.00-17.00	61.5	50.2	53.8
17.00-18.00	54.2	52.3	53.3
18.00-19.00	63.6	53.5	58.4
19.00-20.00	61.2	54.3	57.4
20.00-21.00	57.5	54.3	55.9
21.00-22.00	62.3	50.2	55.0
22.00-23.00	63.5	51.2	55.6
23.00-00.00	64.3	50.2	57.8
00.00-01.00	60.3	48.9	54.3
01.00-02.00	59.8	49.8	55.8
02.00-03.00	58.9	48.7	53.4
03.00-04.00	59.8	47.8	53.5
04.00-05.00	58.2	48.9	52.1
05.00-06.00	58.5	46.8	52.8

Leq dB Day Time	Leq dB Night Time	Average dB
59.7	57.0	56.7

Report Prepared By:

*Roukate*

for Qualissure Laboratory Services

Reviewed & Authorized By

Benimadhab Gorai, Chemist  
(Authorized Signatory)

-----End of the Report-----

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## TEST REPORT

<b>Name &amp; Address Of the Customer :</b> M/s. Orissa Metaliks Pvt. Ltd.(Unit-II) Address: Vill- Gokulpur, P.O- Shyamraipur, P.S- Kharagpur (L), Paschim Medinipur- 721301, West Bengal.	Report No.	: QLS/P-31/23-24/C/26
	Date	: 13.04.2024
	Sample No.	: QLS/P-31/23-24/26(A-C)
	Sample Description	: Noise
	Date of performance	: 02.04.2024-05.04.2024
	Ref No. Date	: 0222368533 Dated. 27.09.2022

## Monitoring Result of Noise

Sampling Done By: C.Sahoo				
Sampling Guideline : As per IS: 9876: 1981 (RA-2001)				
Sample No.	Date of Monitoring	Location	Leq dB Day Time	Leq dB Night Time
26A	31.03.2024	Near Plant Main Gate	57.4	49.2
26B		Truck Parking Area	58.9	48.1
26C		Rajpura Village	54.6	44.5

Report Prepared By:

*Balkar*

for Qualissure Laboratory Services  
Reviewed & Authorized By

*Benimadhab Gorai*  
Benimadhab Gorai, Chemist  
(Authorized Signatory)

-----End of the Report-----

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