

Six Monthly (JUNE-2024) Compliance Report for Period October 2023 to March 2024 for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant at Mouza: Amba, Mathurakismat, Ghoshalchak, Radhanagar, Serampurgia, Mollarchak, Katapole, Tarabamni And Dhularchak, Village – Gokulpur, P.O – Shyamraipur, P.S – Kharagpur (L) Dist. Paschim Medinipur, West Bengal

1 message

ORISSA METALLURGICAL PRIVATE LIMITED <orissametallurgicalpvtltd@gmail.com>

Thu, May 30, 2024 at 12:18 PM

To: roez.bsr-mef@nic.in, Dr Soma Das <iro.kolkata-mefcc@gov.in>, ms@wbpcb.gov.in, Monitoring Cell <monitoring-ec@nic.in>
Bcc: Biswanath Sharma <biswanath@rashmigroup.com>, Bijayen Srivastava <bijayen.srivastava@rashmigroup.com>, Abhay Gupta <abhay.gupta@orissametalliks.com>, omp1.environment@rashmigroup.co.in

Dear Sir/Madam,

With reference to the above, we are here by submitting the six monthly compliance report for period from October 2023 to March 2024 for:

1. EC Identification No. EC22A008WB158432 issued vide File No- IA-J-11011/56/2017-IA-II (I) dated: 11.10.2022 for Expansion of Integrated Steel Plant (1.0 million TPA To 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant by M/s Orissa Metallurgical Industry Pvt. Ltd., located at Mouza – Amba, Mathurakismat, Ghoshalchak, Radhanagar, Serampurgia, Mollarchak, Katapole, Tarabamni And Dhularchak, Village – Gokulpur, P.O. – Shyamraipur, P.S. – Kharagpur (L) Dist. Paschim Medinipur, West Bengal.
2. Transfer of Environmental Clearance from M/s Orissa Metaliks Private limited to M/s Orissa Metallurgical Industry Private Limited vide File No. J-11011/56/2017-IA.II(I), Dated: 03.08.2021.
3. EC for Proposed 1.0 MTPA integrated steel plant along with 225 MW CPP issued vide F. No. IA-J-11011/56/2017-IA-II(I), Dated: 18.05.2021.

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

Half yearly compliance report for the period of October 2023 to March 2024 has also been uploaded on parivesh portal having Compliance ID 72104525 (copy attached).

Hope you will find the same in order.

Thanking you,

Yours Faithfully

With Warm Regards,
Authorised Signatory

M/s. Orissa Metallurgical Industry Private Limited

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

Mbl. No-7044070948

 **EC Compliances-OMIPL-JUNE-2024.pdf**
15958K

Ref.: OMIPL/EC_COMPL/JUN24

Date: 29.05.2024

To,

a) **Regional Office,**

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

b) **Sub Office, Kolkata**

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

Sub.: **Six Monthly (JUNE-2024) Compliance Report** for Period October 2023 to March 2024 for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant at Mouza: Amba, Mathurakismat, Ghoshalchak, Radhanagar, Serampurgia, Mollarchak, Katapole, Tarabamni And Dhularchak, Village – Gokulpur, P.O – Shyamraipur, P.S – Kharagpur (L) Dist. Paschim Medinipur, West Bengal

Ref.: 1. EC Identification No. EC22A008WB158432, File No. IA-J-11011/56/2017-IA-II(I) dated: 11.10.2022.
2. Transfer of Environmental Clearance from M/s Orissa Metaliks Private limited to M/s Orissa Metallurgical Industry Private Limited vide File No. J-11011/56/2017-IA.II(I), Dated: 03.08.2021
3. EC for Proposed 1.0 MTPA integrated steel plant along with 225 MW CPP issued vide F. No. IA-J-11011/56/2017-IA-II(I), Dated: 18.05.2021

Dear Sir,

With reference to the above, we are here by submitting the six monthly compliance report for period from October 2023 to March 2024 for:

1. EC Identification No. EC22A008WB158432 issued vide File No- **IA-J-11011/56/2017-IA-II (I) dated: 11.10.2022** for Expansion of Integrated Steel Plant (1.0 million TPA To 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant by M/s Orissa Metallurgical Industry Pvt. Ltd., located at Mouza – Amba, Mathurakismat, Ghoshalchak, Radhanagar, Serampurgia, Mollarchak, Katapole, Tarabamni And Dhularchak, Village – Gokulpur, P.O. – Shyamraipur, P.S. – Kharagpur (L) Dist. Paschim Medinipur, West Bengal.
2. Transfer of Environmental Clearance from M/s Orissa Metaliks Private limited to M/s Orissa Metallurgical Industry Private Limited vide File No. J-11011/56/2017-IA.II(I), Dated: 03.08.2021
3. EC for Proposed 1.0 MTPA integrated steel plant along with 225 MW CPP issued vide F. No. IA-J-11011/56/2017-IA-II(I), Dated: 18.05.2021

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. OMIPL/ENV COMPL/DEC-2023, dated 30.11.2023, on parivesh portal vide Compliance ID: 26096206 dated 30.11.2023.

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

Hope you will find the same in order.

Thanking you.

Yours Faithfully,

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

Authorized Signatory

C.C:-

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

Enclosures:-

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

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

Director/Authorized Signatory

Six monthly compliance status reports of the conditions stipulated in environmental clearance for the period of October 2023 to March 2024 (June 1st 2024)

Project Details:

Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 Million TPA Finished Steel) with 385 MW Captive Power by M/s Orissa Metallurgical Industry Pvt. Ltd.

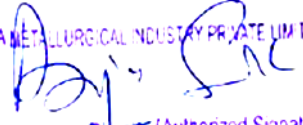
Location:

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

EC Details:

- ❖ EC identification No.: EC22A008WB158432 issued vide File No. IA-J-11011/56/2017-IA-II(I), Dated: 11.10.2022
- ❖ File No. J-11011/56/2017-IA.II(I), Dated: 03.08.2021
- ❖ File No. IA-J-11011/56/2017-IA-II(I), Dated: 18.05.2021

SUBMITTED BY

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

Director/Authorized Signatory

M/s ORISSA METALLURGICAL INDUSTRY PVT. LTD.

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

Email id.- orissametallurgicalpvtltd@gmail.com

Your (**Environment Clearance**) application has been **Submitted** with following details

Proposal No	IA/WB/IND/285991/2017
Compliance ID	72104525
Compliance Number(For Tracking)	EC/M/COMPLIANCE/72104525/2024
Reporting Year	2024
Reporting Period	01 Jun(01 Oct - 31 Mar)
Submission Date	29-05-2024
IRO Name	ARTATRANA MISHRA
IRO Email	jhk109@ifs.nic.in
State	WEST BENGAL
IRO Office Address	Integrated Regional Offices, Kolkata

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

**HALF YEARLY COMPLIANCE REPORT OF THE CONDITIONS STIPULATED
IN ENVIRONMENTAL CLEARANCE**

Project Proponent	M/s Orissa Metallurgical Industry Private Limited
Name of the Project:	Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant
Location of the project	Mouza - Amba, Mathurakismat, Ghoshalchak, Radhanagar, Serampurgia, Mollarchak, Katapole, Tarabamni And Dhularchak, Village - Gokulpur, P.O - Shyamraipur, P.S - Kharagpur (L) Dist. Paschim Medinipur, West Bengal
Clearance Letters No. Date	<ol style="list-style-type: none">1. EC No. EC22A008WB158432; File No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.20222. Transfer of Environmental Clearance from M/s Orissa Metaliks Private limited to M/s Orissa Metallurgical Industry Private Limited vide File No. J-11011/56/2017-IA.II(I), Dated: 03.08.20213. EC for Proposed 1.0 MTPA integrated steel plant along with 225 MW CPP issued vide F. No. IA-J-11011/56/2017-IA-II(I), Dated: 18.05.2021
Period of Compliance Report	October 2023 to March 2024

S. No.	Specific Condition	Compliance Status
i.	The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.	Agreed and noted for compliance. The project is still in construction phase. Only 2 x 350 + 2 x 500 TPD DRI along with WHRB based CPP 60 MW is in operation after obtaining valid CTO from WBPCB. All the environmental protection measures and safeguards proposed during construction phase & operational phase (i.e. use of movable water tanker, sweeping machine, water mist fog canon system installation of APCD like ESP bag filter WHRB etc.) being complied.
ii.	The project proponent shall utilize modern technologies for capturing of carbon emitted and	Consent obtained for 2 x 350 + 2 x 500 TPD DRI along with WHRB based CPP 60 MW dated on 17.10.2023. Waste gases

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

Director/Authorized Signatory

Half yearly compliance report
M/s Orissa Metallurgical Industry Private Limited

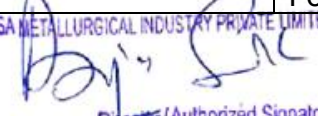
	<p>shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.</p>	<p>generated from DRI are oxide of carbon which is utilizing in WHRB Boiler for power generation.</p> <p>The flue gas generated from balance EC accorded project i.e. Blast Furnace, Coke Oven Plant, Sinter, DRI; Lime & Dolo Plant will be utilized in various units like in BF, Sinter, Coke Oven Plant, Ferro Plant, power generation etc up to extent possible as proposed in EIA/EMP report. Plantation is a suitable method to sequester carbon and 33.24% of the plant area shall be developed under greenbelt.</p> <p>Details of Carbon Sequestration is submitted to IRO, MoEF&CC vide letter no. OMIPL/ENV COMPL/JUNE 2023 dated 25.05.2023.</p>
<p>iii.</p>	<p>Rejects from coal washery shall only be used either in the captive power plant (or) in the Thermal Power Plants meeting emission standards.</p>	<p>Agreed and noted for compliance.</p> <p>Coal washery plant has not been implemented yet. Reject from coal washery will be used in (Coal & Dolochar Mix) based CPP.</p> <p>Company has obtained the Environment clearance vide EC Identification no.- EC22A008WB158432 issued vide File No- IA-J-11011/56/2017-IAII (I) dated 11.10.2022. As per ministry O.M. vide File No. 1A3-22/28/2022-IA.111 [E181584] dated 13.12.2022, the validity of the environment clearance is 10 years from the date of grant of EC.</p> <p>As the validity of the EC has not expired, the coal washery will be implemented in a phase manner.</p> <p>In order to develop proper land use planning and utilise the land effectively and implement the project cost effective, company has proposed for 'Expansion of EC accorded project' by addition of some</p>

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

Director/Authorized Signatory

Half yearly compliance report
M/s Orissa Metallurgical Industry Private Limited

		facilities and change in configuration of some of the EC accorded facilities and capacity enhancement by raw material change. In this connection, under the provisions of the EIA Notification 2006 as amended, the Standard TOR accorded by Ministry vide ToR Identification No. TO23A1001WB 5596583E issued vide File No. - IA-J-11011/56/2017-IA-II (IND-I) dated 01.05.2023.
iv.	Solid waste utilization	
	a.	<p>PP shall install a slag crusher to convert steel slag into aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in cement making.</p>
	<p style="text-align: center;">Agreed and will be complied.</p> <p>3 x 40 TPH Slag crushing unit adopted for metal recovery from slag and all other guidelines will be complied.</p> <p>The validity of the existing EC is till 13.12.2032. As on date, Civil works and structure erection going on for EC accorded Steel Melting Shop with matching LRF & Rolling mill in phase manner.</p> <p>In order to recover metal from slag to be generated post implementation of Steel Melting Shop with matching LRF, civil works and structure erection going on for 1 x 40 TPH Slag crushing unit.</p> <p>Slag crushing unit will be implemented in parallel with implementation of Steel Melting Shop with matching LRF.</p>	
	b.	<p>PP shall recycle/reuse solid waste generated in the plant as far as possible.</p>
		Agreed and Being complied.
		<p>Generated dolochar being used in CFBC boiler of associate company. Dusts from APC Device are being used in sinter plant of associate company, land levelling and brick making. TCLP test of dolochar is enclosed as Annexure-I.</p>
c.	<p>Used refractories shall be recycled as far as possible.</p>	Agreed and noted for compliance.
		<p>Refractories have been installed in operational DRI i.e. 2 x 500 TPD + 2 x 350 TPD DRI kiln for which consent to operate obtained from West Bengal Pollution Control Board vide CTO no.-</p>

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

Director/Authorized Signatory

Half yearly compliance report
M/s Orissa Metallurgical Industry Private Limited

			C0144053 dated 17.10.2023. The life of the refractories is 02 years (on and average). The used refractories after its life span will be used in cement plant of the associate company of the Group.
v.	Sinter Plant shall be equipped with Sinter cooler waste recovery system and suitable technology for control of dioxins and furans emissions from the plant.	Sinter plant has not been implemented yet. Agreed and will be complied once the project comes in operation. As stated in point no.-i, the validity of the EC is not expired the EC accorded sinter plant will be implemented in parallel with the implementation of blast furnace in phase manner.	
vi.	Tar shall be recovered from producer gas and shall be sold to registered processors and Phenolic water from PGP shall be treated for phenol, tar and cyanide.	Producer Gas Plant has not been implemented yet. Agreed and will be complied once the project comes in operation. Producer Gas will be used as a fuel in reheating furnace of rolling mill & coal dryer. As the reheating furnace of rolling mill & coal dryer is not installed and the validity of EC is not expired, producer gas plant will be installed in parallel with implementation of reheating furnace of rolling mill & coal dryer.	
vii.	Coke oven plant shall be equipped with modified wet quenching system.	Agreed and noted for compliance. Coke oven Plant has not been implemented yet. The stipulated conditions will be complied by the project proponent. Civil foundation works and structure erection going on for EC accorded coke oven plant and will be implemented in parallel with the implementation of blast furnace in phase manner.	
viii.	Blast Furnaces shall be equipped with Top Recovery Turbine (capacity more than 450 m ³), dry gas cleaning plant, stove waste heat recovery, cast house and stock house ventilation system and slag granulation facility.	Agreed and noted for compliance. Blast furnace has not been implemented yet. Blast furnace will be equipped with Top Recovery Turbine and all other mentioned parameter will be complied. Currently, company has decided to manufacture steel from DRI-SMS route,	

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

Director/Authorized Signatory

Half yearly compliance report
M/s Orissa Metallurgical Industry Private Limited

		<p>so 2 x 500 TPD + 2 x 350 TPD DRI plant is commissioned and SMS & Rolling mill under construction phase.</p> <p>As stated in point no.-i, the validity of the EC is not expired the EC accorded blast furnace will be implemented in phase manner.</p>
ix.	Basic Oxygen Furnace (BOF) gas shall be cleaned dry.	<p>Agreed and noted for compliance.</p> <p>Basic Oxygen Furnace (BOF) has not been implemented yet. The said condition will be complied once the project comes in operation.</p> <p>Basic Oxygen Furnace is used for further purification of Hot liquid molten metal manufactured from Blast furnace as per the market demand.</p> <p>As stated in point no.-vii, the blast furnace plant is not implemented and still the validity of the EC is not expired, Basic Oxygen Furnace will be implemented in parallel with implementation of blast furnace.</p>
x.	EAF shall be closed type and fourth hole extraction system shall be included for fume control from these furnaces	<p>Not applicable.</p> <p>The said point is 'Not applicable', as in the EC accorded by ministry vide EC Identification no-EC22A008WB 158432 issued vide File No- IA-J-11011/56/2017-IAII (I) dated 11.10.2022, no EAF has been proposed.</p>
xi.	85-90% of billets shall be rolled directly in hot stage. RHF shall operate using only Light Diesel Oil or Mixed BF/CO gas/Producer gas.	<p>Agreed and will be complied once the project comes in operation.</p> <p>Currently no M.S. Billets is being manufactured.</p> <p>In order to comply with this point company is constructing Steel Melting Shop with Rolling Mill simultaneously. Post successful commissioning of the SMS & Rolling Mill, Billets will be directly rolled in hot stage in rolling mill for manufacture of final product.</p>

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

 Director/Authorized Signatory



Half yearly compliance report
M/s Orissa Metallurgical Industry Private Limited

xii.	<p>Cold Rolling Mill (CRM), color coating and galvanizing plants shall have CETP to treat and recycle the treated water from CRM complex. Sludge generated at CRM ETP shall be sent to TSDF. Acid recovery plant shall be provided in CRM.</p>	<p>Agreed and will be complied once the project comes in operation. The project is still in construction phase.</p> <p>As stated in point no.-i, the validity of the EC is not expired. Cold Rolling Mill (CRM), colour coating and galvanizing plants yet not implemented and will be installed in phase manner as per market demand.</p> <p>In parallel with implementation of the project acid recovery plant will be installed and CETP will also be installed to treat waste water and recycle treated water.</p>
xiii.	<p>Dust emission from Steel Plant stacks shall be up to 30 mg/Nm³.</p>	<p>Agreed and is being/will be complied.</p> <p>As stated in point i, currently 2 x 500 + 2 x 350 TPD DRI is under operational phase & APCD are designed to meet the latest emission norms of less than 30 mg/Nm³.</p> <p>CEMS data and latest stack emission report carried by NABL accredited laboratory on 04.11.2023 is enclosed as Annexure-II & III respectively.</p>
xiv.	<p>Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Regional Office of the MoEF&CC.</p>	<p>Agreed and noted for compliance.</p> <p>Currently 2 x 500 TPD + 2 x 350 TPD DRI kiln plant is in operational phase after obtaining consent to operate permission from West Bengal Pollution Control Board vide CTO no.- C0-144053 dated 17.10.2023 and balance EC accorded in under construction stage in phase manner.</p> <p>In order to ensure that emission norms are within the stipulated EC/ CTO norms of 30 mg/Nm³, online continuous emission monitoring system for particulate matter as per CPCB norms is installed and data is being transferred to CPCB/ WBPCB server. Also third part monitoring of the stack from NABL accredited laboratory is carried on November 2023 and as per the report the values are within the permissible limit.</p> <p>Also as stated in EMP plan and Condition xiv of EC dated 11.10.2022, 'Performance</p>

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

 Director/Authorized Signatory


Half yearly compliance report
M/s Orissa Metallurgical Industry Private Limited

		<p>test to be conducted on all pollution control systems every year’.</p> <p>As the operational plant is set up on 17.10.2023, the detail performance test shall be carried before 16.10.2024 and the report will be submitted to Regional Office of the MoEF&CC with six monthly EC compliance report.</p> <p>CEMS data and latest stack emission report carried by NABL accredited laboratory on 04.11.2023 is already enclosed as Annexure-II & III respectively.</p>
<p style="text-align: center;">xv.</p>	<p>Recuperator shall be installed to recover heat from BF stove waste gas and used for stove gas reheating reducing requirement of fuel gas.</p>	<p style="text-align: center;">Agreed and noted for compliance.</p> <p>Blast furnace has not been implemented yet. Recuperator will be installed to recover heat from BF stove waste gas. The said condition will be taken care of at the time of finalizing the plant/process design.</p> <p>Currently, company has decided to manufacture steel from DRI-SMS route, so 2 x 500 TPD + 2 x 350 TPD DRI plant is commissioned and SMS & Rolling mill under construction phase.</p> <p>As stated in point no.-i, the validity of the EC is not expired the EC accorded BF will be implemented in phase manner.</p>
<p style="text-align: center;">xvi.</p>	<p>The company shall also undertake rain water harvesting measures as per the plan submitted and reduce water dependence from the outside source.</p>	<p style="text-align: center;">Is being complied with.</p> <p>Rainwater harvesting structure is proposed for the plant and has already been implemented for EC accorded project.</p> <p>02 nos Rain water harvesting ponds exists in the plant premises.</p> <div style="display: flex; justify-content: center; gap: 10px;">   </div> <p style="text-align: center;">RAIN WATER HARVESTING STRUCTURE</p>

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

 Director/Authorized Signatory


Half yearly compliance report
M/s Orissa Metallurgical Industry Private Limited

		Total area demarcated for rain water harvesting is 20.90 acres.
xvii.	85% of raw materials and finished goods shall be transported by dedicated railway siding facility. In the event of delay in establishment of dedicated railway line, PP shall use another railway siding facility of Rashmi Group.	<p>Agreed and the said condition will be complied.</p> <p>In-principal approval for setting up the proposed private railway siding has been obtained from South Eastern Railway vide letter no. GW/1/OMIPL-NWOSC(IPA)/159 dated 08.08.2022. Also ESP, SIP & OHE approval and construction clearance obtained from Indian Railway. Construction work already started.</p>  <p style="text-align: center;">RAILWAY SIDING UNDER CONSTRUCTION</p> <p>Currently raw material and finished goods are being transported by 03 nos. private siding of Rashmi group (RML, OMPL & OASPL).</p>
xviii.	The total water requirement of 13,200 KLD will be obtained from Kansabati River & rain water harvesting structure. No ground water abstraction is permitted.	<p>Agreed and being complied.</p> <p>The raw water would be sourced from Kansabati river (13,200 KLD @ 342 days) and Rain Water Harvesting pond (13,200 @ 23 days).</p> <p>Water permission obtained from Irrigation & water Department, West Bengal from Kansai River Bed (22,248 KLD for 08 months or 243 days) vide letter no- 167-I/I-4M-05/14(Pt.II) dated 16.10.2020 in name of M/s Orissa Metaliks Pvt. Ltd. (Holding company of M/s Orissa Metallurgical Industry Pvt. Ltd.).</p> <p>After taking into consideration the interest and financial share cost, laying of pipeline, infrastructure development for</p>

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

 Director/Authorized Signatory

Half yearly compliance report
M/s Orissa Metallurgical Industry Private Limited


		<p>water project had been done by holding company for meeting the water demand of M/s Orissa Metallurgical Industry Pvt. Ltd.</p> <p>Copy of water permission and schematic water distribution pattern is already submitted to IRO, MoEF&CC vide letter no. OMIPL/ENV COMPL/JUNE 2023 dated 25.05.2023.</p>
xix.	<p>02 Nos. rain water harvesting pond exist is within project site. Also, Kansabati River, other rainwater harvesting structures and ponds exists within the study area of 10 km from the project site. The water bodies shall not be disturbed. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.</p>	<p>Agreed and being complied.</p> <p>As stated in point xvi rainwater harvesting structure is already implemented.</p> <p>The plant is being designed as ZLD and no waste water will be discharge outside the plant premises.</p> <p>The drainage conservation scheme, soil conservation scheme and multiple erosion control measures adopted by the company is submitted to Sub-Regional Office of the ministry, Kolkata vide letter no. OMIPL/ATR/23-24/ADSREPLY/02 dated 09.03.2024 and being implemented as per the scheme submitted.</p>
xx.	<p>Air cooled condensers shall be used in the Power plant. 100% consumption of Dolo char in CFBC based boiler.</p>	<p>Agreed and Being complied with.</p> <p>Air Cooled Condensers (ACCs) are installed with WHRB based CPP. Currently dolochar being used in CFBC based Boiler of associate company.</p> 
xxi.	<p>Ultralow NOx burner with three stage combustion, flue gas recirculation and auto combustion control system shall</p>	<p>Agreed and noted for compliance.</p> <p>Currently 60 MW WHRB based Power plant is in operation. In parallel with</p>

Half yearly compliance report
M/s Orissa Metallurgical Industry Private Limited



	be used.	<p>implementation of CFBC based CPP, company will install ultra-low NOx burner as per three stage combustion along with flue gas recirculation and auto combustion control system.</p> <p>The said condition will be taken care of at the time of finalizing the plant/process design.</p>
xxii.	Energy efficient drives, VFD for auxiliary motors, slip power recovery for motors above 1000 KW shall be provided.	<p>Being complied with.</p> <p>Energy efficient drives, VFD for auxiliary motors and slip power recovery system for motors above 1000 KW is installed in operational units and the same will be complied for unimplemented/rest of EC sanctioned project.</p>
xxiii.	Ventilation system for odour control in bitumen coating area shall be included.	<p>Not applicable as Ductile Iron pipe unit is surrendered.</p> <p>In order to comply with the subject point, company has obtained Standard TOR accorded by Ministry vide ToR Identification No. TO23A1001WB 5596583E issued vide File No. - IA-J-11011/56/2017-IA-II (IND-I) dated 01.05.2023 for expansion project.</p> <p>At time of obtaining EC for expansion project the said point will be amended.</p>
xxiv.	A proper action plan must be implemented to dispose of the electronic waste generated in the Industry.	<p>Agreed and being complied with.</p> <p>Electronic wastes will be collected and given to authorized recyclers/refurbished. Management of e-waste shall be done in line with the E-Waste (Management) Rules, 2022 and further amendments.</p> <p>In the FY 2023-24, 450.0 kg of 'EETW4' Categories of e-waste has been handed over to M/s Hulladek Recycling Pvt. Ltd. (CPCB authorization PRO no. 29016(12)/(PRO)/18/WM-III Division).</p>
xxv.	Three tier Green Belt shall be developed in a time frame of one year with native species all along	<p>Agreed and Noted.</p> <p>As per EC dated 11.10.2022 1,22,750 nos. saplings to be planted on land</p>

Half yearly compliance report
M/s Orissa Metallurgical Industry Private Limited

	<p>the periphery of the project site of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.</p>	<p>measuring 49.10 hectares (33.24% of total project area) @ 2,500 trees per hectare in two years (02) i.e. by 10.10.2024 .</p> <p>Company has engaged IIT Kharagpur, West Bengal for providing technical support. Plantation along the boundary is being carried by 'MIYAWAKI' method.</p> <p>1,00,700 numbers of trees had been planted till March 2024 and the survival rate is 90.0%. Remaining greenbelt (22,050 nos. of tree sapling) shall be planted on or before 10.10.2024.</p> <p>Latest Green Belt Development Detail:</p> <p>a) Total Seedling/ Plantation (Nos.)- 1,00,700 nos. till 31st March 2024. b) Total Area Covered (Ha)-40.28 ha. c) Greenbelt yet to be developed (Ha)- 8.82 ha.</p> <p>Green belt development with photograph detail is enclosed as Annexure-IV.</p>
<p>xxvi.</p>	<p>Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.</p>	<p>Greening and Paving being done in parallel with implementation of the project. Green belt development with photograph detail is already enclosed as Annexure-IV.</p>
<p>xxvii.</p>	<p>The coal dust to be measured at coal handling areas, ball mills, furnace charging areas through personal and area monitoring and to be compared and it should be within 2 mg/m³, respirable dust fraction containing less than 5% quartz as per Indian Factories Act, 1948.</p>	<p>Is being complied with.</p> <p>TSPM monitored at the coal crusher area by third party monitoring agency M/s Indicative Consultant India, Haldia which is NABL accredited laboratory carried in month of Dec.-2023 and report is submitted to Sub-Regional Office of the ministry, Kolkata vide letter no. OMIPL/ATR/23-24/ADSREPLY/02 dated 09.03.2024. Copy of the TSPM monitoring report is enclosed as Annexure-V.</p>
<p>xxviii.</p>	<p>The proposed project shall be designed as "Zero Liquid Discharge" Plant. There shall be no discharge of effluent from the plant. Domestic waste water will be treated in STP and treated</p>	<p>Agreed and being complied with.</p> <p>Project is still in construction phase and only 2 x 500 TPD + 2 x 350 TPD DRI plant is under operation.</p> <p>The plant is being designed as zero liquid</p>

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

Director/Authorized Signatory



Half yearly compliance report
M/s Orissa Metallurgical Industry Private Limited

	water shall be re-used for greenbelt development and plantation and dust suppression.	discharge (ZLD). Treated domestic wastewater will be used for greenbelt development and dust suppression.
xxix.	All internal road and connecting road from project site to main highway shall be developed and maintained with suitable Million Axle Standard (MSA) as per the traffic load due to existing and proposed project. All plant roads shall be paved and industrial vacuum cleaners shall be used to clean the roads regularly.	<p style="text-align: center;">Agreed and being complied.</p> <p>Project is still in construction phase and only 2 x 500 TPD + 2 x 350 TPD DRI plant is under operation.</p> <p>Plant internal roads are being developed in parallel with implementation of the project and an industrial vacuum cleaner/swipper machine is being used to clean the roads regularly.</p> <p>To maintain designed MSA of Zilla Parishad Road, following measures are adopted:</p> <ol style="list-style-type: none"> 1. Maintenance/repairing of the road is done in consultation with local authority. 2. Overloading of the vehicle that exceeds the maximum permissible limit is strictly prohibited. 3. Use of dedicated road corridor for transportation of material from railway siding of the group to the plant site. <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Mechanical sweeping Machine</p> </div> <div style="text-align: center;">  <p>movable water tanker</p> </div> </div>
xxx.	All stockyards shall be having impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains to trap the run off material.	<p style="text-align: center;">Agreed and noted for compliance.</p> <p>Project is still in construction phase and only 2 x 500 TPD + 2 x 350 TPD DRI plant is under operation.</p> <p>As on April 2024, impervious flooring with water spraying system is in place in DRI plant area. Temporary Garland drain is constructed and connected to pit.</p>

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED





 Director / Authorized Signatory


Half yearly compliance report
M/s Orissa Metallurgical Industry Private Limited

		
<p>xxxii.</p>	<p>The project proponent shall undertake village adoption and develop a robust action plan to develop the villages in model villages.</p>	<p>Being complied with in a time bound manner.</p> <p>Company has adopted 10 nos. of villages –Chandipur, Dhekia, Bhawanipur, Krishnanagar, Mahespur, Naryanpur, Radhanagar, Khosalchak, Latibpur and Nandarchak situated at a distance of around 3.0 km from plant boundary and has started developing the facilities within the villages as per need base assessment carried out during EIA study.</p>
<p>xxxii.</p>	<p>All the commitments made to the public during the Public Hearing/Public Consultation shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry’s OM dated 30.09.2020 shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.</p>	<p>Agreed and being complied at time bound manner.</p> <p>In FY 2023-24 under the head of CSR/CER is Rs. 1,52,30,987.0 spent under CER to full fill all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.</p> <p>As mentioned earlier in point no. xxxii under Specific Conditions, Company has adapted 10 nos. of villages –Chandipur, Dhekia, Bhawanipur, Krishnanagar, Mahespur, Naryanpur, Radhanagar, Khosalchak, Latibpur and Nandarchak and will develop the facilities within the villages as per need base assessment.</p> <div style="text-align: center;">  <p>Free Sapling Distribution</p> </div>

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

 Director/Authorized Signatory

		<div style="text-align: center;">  <p>Promotion of Sports</p> </div> <div style="text-align: center;">  <p>Construction of Community Center</p> </div> <div style="text-align: center;">  <p>Construction of Community Prayer Center</p> </div>
<p>xxxiii.</p>	<p>The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical</p>	<p style="text-align: center;">Agreed and being complied.</p> <p>Single use plastic is banned & Posters & painting for use of Eco friendly Carry Bag has been displayed at various prominent areas for awareness of our employees, vendors & local people.</p> <div style="text-align: right; margin-top: 20px;"> <p>For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED</p>  <p>Director / Authorized Signatory</p> </div>

	<p>guidelines issued by the CPCB in this regard is available at https://cpcb.nic.in/technical-guidelines-3/. All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six-monthly compliance report being submitted by the project proponents.</p>	
<p>xxxiv.</p>	<p>There are two nos. of Ponds in the vicinity of the Project, so the PP shall ensure that the quality and pond profiles are not disturbed and shall implement a Pond conservation plan.</p>	<p style="text-align: center;">Noted.</p> <p>02 nos. ponds are developed as rain water harvesting pond and water is stored and used for dust suppression & green belt development.</p>
<p>xxxv.</p>	<p>Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere. The PP to this affect shall implement a time line action Plan.</p>	<p style="text-align: center;">Agreed and Being complied with.</p> <p>For control of fugitive emission following initiatives have been/will be adopted by the management of OMIPL:</p> <ol style="list-style-type: none"> a) Dedicated 02 No water spraying tankers are in use. 01 No. more will be procured and used for the suppression of fugitive emission. b) Dedicated 02 no. street swiping machine also in use in plant. Additional 02 nos. will be used. c) Dedicated 01 no movable Water mist fog system is in use. Additional 02 nos. will be used for suppressing fugitive dust emission. d) Water spraying at construction site to reduce fugitive emission. Water sprinkler/ water guns at potential emission sources (Dust prone area),

		<p>internal road will be installed for effectively controlling the fugitive emission.</p> <p>e) Use of adequate quantity of mechanized machine for cleaning of plant area & internal drain like bobcats, motorized grader, mini floor cleaning/ scrubber machine, mini excavators & mini clamshell.</p> <p>f) Speed of the vehicles regulated (20 km/hr) to control the fugitive dust emission from the roads.</p> <p>g) Dedicate manpower/staff for maintaining effective housekeeping and cleaning.</p> <p>h) Significant plantation and green belt development to mitigate the impact of fugitive dust on ambient air.</p>
xxxvi.	<p>The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.</p>	<p style="text-align: center;">Agreed and being complied.</p> <p>Good housekeeping being practiced. Action taken proposed by company for maintaining housekeeping and controlling emission are:</p> <p>a) Dedicated 02 No water spraying tankers are in use. Additional 01 No. more will be procured and used.</p> <p>b) Dedicated 02 nos. street swiping machine also in use in plant. Additional 02 nos. will be used.</p> <p>c) Dedicated 01 no Water mist fog system is in use in construction phase. Additional 02 nos. will be used.</p> <p>d) Water spraying at construction site to reduce fugitive emission. Water sprinkler/ water guns at potential emission sources (Dust prone area) will be installed to reduce fugitive emission.</p> <p>e) Concreting of internal road with proper drainage system to reduce vehicular emission in parallel with implementation of project.</p> <p>f) Ensuring trucks movement for transporting raw materials & solid</p>

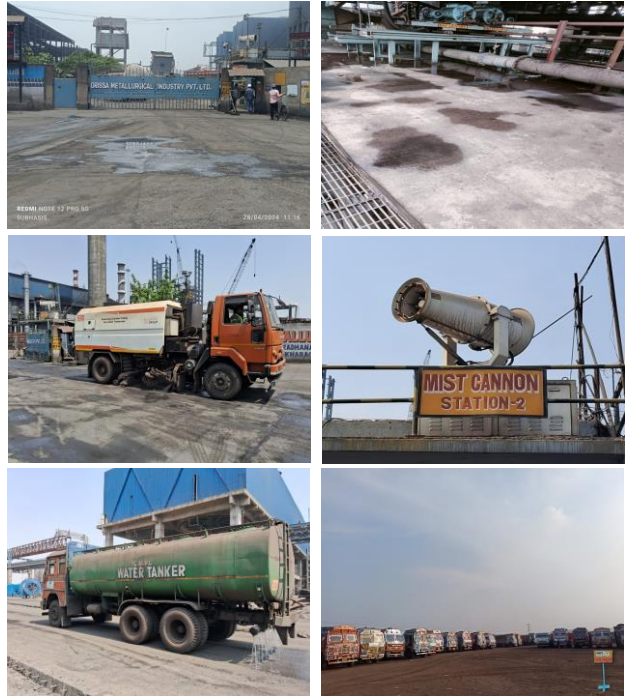
For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED


Director/Authorized Signatory

Half yearly compliance report
M/s Orissa Metallurgical Industry Private Limited

- waste in fully covered way to avoid dust pollution.
- g) Dedicated truck parking facility.
- h) Green belt with density of 2500 per hectare along and around boundary of the site to be developed as per CPCB guideline in a time bound manner.

Photograph of Housekeeping maintained inside the plant:



Land use based APCD (Bag filters, ID Fan, pneumatic APC dust handling system and stack of adequate height) at potential secondary emission sources like- transfer points, intermediate storage, silo and crushing/ grinding operations is/ will be installed to keep emission within 30 mg/Nm³.


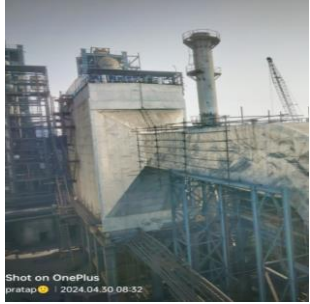




For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED
[Signature]
Director / Authorized Signatory



ESP with Rotary kiln-1

ESP with Rotary kiln-2

Half yearly compliance report
M/s Orissa Metallurgical Industry Private Limited

		 <p>ESP with Rotary kiln-3</p>	 <p>ESP with Rotary kiln-4</p>
		 <p>Bag filter with Cooler discharge 1 & 2</p>	 <p>Bag filter with Cooler discharge 3 & 4</p>
		 <p>Bag Filter with House Building</p>	 <p>Bag Filter with Separation Product</p>

S. No.	General Conditions	Compliance Status
I. Statutory compliance		
i.	The Environment Clearance (EC) granted to the project/activity is strictly under the provisions of the EIA Notification, 2006 and its Amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/ conditions to be followed under any other Acts/ Rules/	Agreed and Noted.

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

 Director / Authorized Signatory






	Subordinate legislations, etc.as may be applicable to the project.																															
II. Air quality monitoring and preservation																																
i	<p>The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 06 Nos. Continuous Ambient Air Quality Station (CAAQS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act,1986 or NABL accredited laboratories.</p>	<p>After taking into consideration the interest and financial share cost from associate company of the Group, for monitoring the Ambient Air quality around industrial units of the Group, 04 nos. Continuous Ambient Air Quality Monitoring Station (USEPA/ MCERT approved) is installed covering upwind, downwind and crosswind directions after getting site approval from WBPCB and data is transferred to SPCB & CPCB server. Another 02 no. CAAQMS will be installed by OMIPL after getting site approval from WBPCB. CAAQMS reports for the period of October 2023 to March 2024 are attached as Annexure – VI.</p> <p>Ambient air monitored at the four locations viz., Near Plant Main Gate, Narayanpur Village, Benasole Village & Ghorachalk Village by third party monitoring agency Qualissure Laboratory Services, Kolkata which is NABL accredited laboratory. As per monitoring reports, (March 2024) ambient air quality are as follows:</p> <table border="1"> <thead> <tr> <th>Location</th> <th>PM₁₀ (µg/m³)</th> <th>PM_{2.5} (µg/m³)</th> <th>SO₂ (µg/m³)</th> <th>NO_x (µg/m³)</th> <th>CO (µg/m³)</th> </tr> </thead> <tbody> <tr> <td>Near Plant Main Gate</td> <td>79.0</td> <td>46.0</td> <td>8.5</td> <td>30.1</td> <td>675</td> </tr> <tr> <td>Narayanpur Village</td> <td>53.0</td> <td>30.0</td> <td>5.0</td> <td>22.4</td> <td>435</td> </tr> <tr> <td>Benasole Village</td> <td>55.0</td> <td>33.0</td> <td>5.5</td> <td>24.7</td> <td>481</td> </tr> <tr> <td>Ghorachalk Village</td> <td>52.0</td> <td>28.0</td> <td>5.8</td> <td>25.8</td> <td>446</td> </tr> </tbody> </table> <p>Latest Ambient Air Quality Monitoring Analysis reports carried by NABL/MoEF accredited lab are attached in as Annexure – VII.</p> <p>OCEMS connected with the stack of DRI kiln have been connected to CPCB server and data is being transferred. Copy of the OCEMS report is already enclosed as Annexure-II.</p>	Location	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (µg/m ³)	Near Plant Main Gate	79.0	46.0	8.5	30.1	675	Narayanpur Village	53.0	30.0	5.0	22.4	435	Benasole Village	55.0	33.0	5.5	24.7	481	Ghorachalk Village	52.0	28.0	5.8	25.8	446
Location	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (µg/m ³)																											
Near Plant Main Gate	79.0	46.0	8.5	30.1	675																											
Narayanpur Village	53.0	30.0	5.0	22.4	435																											
Benasole Village	55.0	33.0	5.5	24.7	481																											
Ghorachalk Village	52.0	28.0	5.8	25.8	446																											
ii	The project proponent shall monitor fugitive emission in the plant premises at least once in every quarter	<p style="text-align: center;">Being Complied with.</p> <p>Fugitive Emissions have been monitored in quarterly basis by NABL accredited laboratory.</p>																														

Half yearly compliance report
M/s Orissa Metallurgical Industry Private Limited



	<p>through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.</p>	<p>In December 2023 at the eight locations viz., DRI 1 & 2; CPP Area; DRI 3 & 4; Truck Parking Area; Construction Site of SMS; Water reservoir; Construction of DRI and Construction of Railway Siding by third party monitoring agency Greenvision, Durgapur which is NABL accredited laboratory. As per monitoring reports emission levels are as within limit:</p> <p>Again in March-2024 at the eight locations viz., DRI 1 & 2; CPP Area; DRI 3 & 4; Truck Parking Area; Construction Site of SMS; Water reservoir; Construction of DRI and Construction of Railway Siding by third party monitoring agency Qualissure Laboratory Services, Kolkata which is NABL accredited laboratory. As per monitoring reports (March 2024), emission levels are as follows:</p> <table border="1" data-bbox="735 969 1441 1431"> <thead> <tr> <th>S. No.</th> <th>Location</th> <th>TSPM ($\mu\text{g}/\text{m}^3$)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>DRI 1 & 2</td> <td>321</td> </tr> <tr> <td>2</td> <td>CPP Area</td> <td>178</td> </tr> <tr> <td>3</td> <td>DRI 3 & 4</td> <td>270</td> </tr> <tr> <td>4</td> <td>Truck Parking Area</td> <td>183</td> </tr> <tr> <td>5</td> <td>Construction Site of SMS</td> <td>351</td> </tr> <tr> <td>6</td> <td>Water reservoir area</td> <td>118</td> </tr> <tr> <td>7</td> <td>Construction of DRI</td> <td>256</td> </tr> <tr> <td>8</td> <td>Construction of Railway Siding</td> <td>310</td> </tr> </tbody> </table> <p>Fugitive Emissions monitoring report of Dec 2023 & March 2024 is enclosed as Annexure-VIII.</p>	S. No.	Location	TSPM ($\mu\text{g}/\text{m}^3$)	1	DRI 1 & 2	321	2	CPP Area	178	3	DRI 3 & 4	270	4	Truck Parking Area	183	5	Construction Site of SMS	351	6	Water reservoir area	118	7	Construction of DRI	256	8	Construction of Railway Siding	310
S. No.	Location	TSPM ($\mu\text{g}/\text{m}^3$)																											
1	DRI 1 & 2	321																											
2	CPP Area	178																											
3	DRI 3 & 4	270																											
4	Truck Parking Area	183																											
5	Construction Site of SMS	351																											
6	Water reservoir area	118																											
7	Construction of DRI	256																											
8	Construction of Railway Siding	310																											
iii	<p>Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions.</p>	<p>Agreed and being complied.</p> <p>The project is still in construction phase. Only 2 x 350 + 2 x 500 TPD DRI along with WHRB based CPP 60 MW is in operation after obtaining valid CTO from WBPCB.</p> <p>Sampling facility has been provided at process stack of DRI and will be provided at process stack and at quenching tower, other proposed stacks as per CPCB guidelines.</p>																											

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

Director/Authorized Signatory



iv	<p>Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.</p>	<p style="text-align: center;">Agreed and being complied.</p> <p>The project is still in construction phase. Only 2 x 350 + 2 x 500 TPD DRI along with WHRB based CPP 60 MW is in operation after obtaining valid CTO from WBPCB.</p> <p>Appropriate APC system like ESP, Bag filters are installed with operational unit and will be provided for all the dust generating points including fugitive dust from all vulnerable sources for under construction project. Photographs of the APC system is already given in point no. xxxvi of Specific condition.</p>
v	<p>The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.</p>	<p style="text-align: center;">Agreed and Being complied.</p> <p>Leakage detection and mechanized bag cleaning facilities for better maintenance of bags are provided for operational units and will be provided for under construction project.</p>
vi	<p>Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.</p> <p style="text-align: center;">  For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED Director/Authorized Signatory </p>	<p style="text-align: center;">Agreed and being complied.</p> <ul style="list-style-type: none"> ❖ Dedicated 02 Nos. water spraying tankers are in use in construction phase. 01 No. more will be procured and will be used. ❖ Dedicated 01 no. movable Water mist fog system in use. 01 no fixed water sprinkler is also installed. Additional 02 nos. will be used. <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  Water Tanker -1 </div> <div style="text-align: center;">  Water Tanker -2 </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;">  Movable water mist Fog canon </div> <div style="text-align: center;">  fixed water mist fog canon </div> </div> <ul style="list-style-type: none"> ❖ Dedicated 02 nos. street swiping machine also in use in plant. Additional 02 nos. will be used.


Half yearly compliance report
M/s Orissa Metallurgical Industry Private Limited

		  <p style="text-align: center;">Street sweeping machine no-1 Street sweeping machine no-2</p> <ul style="list-style-type: none"> ❖ Water spraying at construction site to reduce fugitive emission. Water sprinkler/ water guns at potential emission sources (Dust prone area) will be installed to reduce fugitive emission. ❖ Dedicated manpower/staff for maintaining effective housekeeping and cleaning.
vii	Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/agglomeration.	<ul style="list-style-type: none"> ❖ Dolochar from operational DRI- 1,50,000 TPA used in associated Company Power Plant. ❖ ESP dust & Kiln accretion -1,00,000 TPA used for road construction. <p>Fines/dust collected from APC and vacuum cleaning devices of under construction project will be handled as per EIA/EMP plan submitted while getting EC.</p>
viii	The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.	<p style="text-align: center;">Agreed and being complied.</p> <p>Project proponent will follow necessary precautionary step to control emission during transportation/movement of vehicles.</p> <ul style="list-style-type: none"> ❖ Trucks movement for transporting in fully covered way to avoid dust pollution. ❖ Speed of the vehicles to be regulated (20 km/hr) to control the fugitive dust emission from the roads.
ix	Facilities for spillage collection shall be provided for coal and coke on wharf of coke oven batteries (chain conveyors, land based industrial vacuum cleaning facility).	<p style="text-align: center;">Agreed and noted for compliance.</p> <p>Coke oven plant civil foundation work and structure erection going on and will be implemented in phase manner. During the construction/commissioning phase of coke oven plant facilities for spillage collection for coal and coke on wharf of coke oven batteries will be provided.</p>
x	Land-based APC system shall be installed to control coke	<p style="text-align: center;">Agreed and noted for compliance.</p> <p>Coke oven plant civil foundation works and</p>


[Signature]
Director/Authorized Signatory

	pushing emissions.	structure erection going on and will be implemented in phase manner. During the design phase APC system (bag filter) to control coke pushing emissions is considered. Land-based APC system will be installed to control coke pushing emissions.
xi	Monitor CO, HC and O ₂ in flue gases of the coke oven battery to detect combustion efficiency and cross leakages in the combustion chamber.	Agreed and noted for compliance. Coke oven plant civil foundation works and structure erection going on and will be implemented in phase manner. Post successful completion of the project CO, HC and O ₂ in flue gases of the coke oven will be monitored to detect combustion efficiency.
xii	Vapour absorption system shall be provided in place of vapour compression system for cooling of coke oven gas in case of recovery type coke ovens.	The EC accorded coke oven plant is a non-recovery type coke oven plant. The said point is 'Not Applicable'.
xiii	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.	The project is still under construction phase. Currently the raw material stock are stored in covered shed and also covered with industrial grade taruplin and water is sprayed by movable water mist fog cannon system on raw material. Construction of wind barrier of height 20 ft. along boundary wall will be done in parallel with implementation of the project in phase manner.
xiv	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.	Agreed and noted for compliance. The EC accorded project is still under construction phase. For the implemented project proper ventilation systems has been provided in the tunnels and pump houses, control room etc. for adequate air exchange.
III. Water quality monitoring and preservation		
i	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. 277(E) dated 31 st	Agreed and noted for compliance. Project is still under the construction phase and plant is being designed as Zero Liquid Discharge Plant and 100% water is/will be treated and recycled for dust suppression & green belt development.

	<p>March 2012(Integrated iron & Steel); G.S.R 414 (E) dated 30th May 2008(sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7thDecember 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act,1986 or NABL accredited laboratories.</p>	<p>Currently 50 KLD STP is installed to treat domestic water and primary ETP plant for operational DRI plant.</p> <p>As per CPCB guideline ZLD units are required to install web camera at the potential disposal points. In this connection web camera are installed to monitor the same.</p>
<p>ii</p>	<p>The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers /sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act,1986 and NABL accredited laboratories.</p>	<p style="text-align: center;">Agreed and Being Complied.</p> <p>Monitoring of ground water quality carried by M/s Qualissure laboratory Services, Kolkata (NABL accredited lab.) in March 2024 at Kantapal Village, Mathura Kismat Village, Latipur Village & Risha Village.</p> <p>It is observed that the ground water samples showed no alarming levels of pollutant concentration and all the samples were conforming to the prescribed drinking water standard (IS 10500:2012).</p> <p>The ground water analysis report as annexed as Annexure-IX.</p>
<p>iii</p>	<p>Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards</p>	<p style="text-align: center;">Noted.</p> <p>Domestic waste water treated in STP (50 KLD). After treatment it is reused for dust suppression and green belt development.</p> <div style="display: flex; justify-content: space-around;">   </div>
<p>iv</p>	<p>Garland drains and collection pits shall be provided for each stock pile to arrest the run off in the event of heavy</p>	<p style="text-align: center;">Agreed and will be complied with.</p> <p>The project is still under construction phase. Garland drains are provided along the raw</p>

	rains and to check the water pollution due to surface run off.	material stock yard. 
v	Tyre washing facilities shall be provided at the entrance of the plant gates.	Agreed and Noted for compliance. Project is still under the construction phase and the tyre washing facilities is under construction phase at the entrance of the plant gates and will be constructed by October 2024.
vi	Water meters shall be provided at the inlet to all unit processes in the steel plants.	Water meters installed at the intake well of the surface water.

IV. Noise monitoring and prevention


i	Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as part of six-monthly compliance report. 	Being Complied with. The ambient noise monitoring carried in month of January 2024 by third party monitoring agency M/s. Indicative Consultant India, Haldia accredited laboratory and report has been submitted with the Action Taken Report to Sub-Regional Office of the ministry, Kolkata vide letter no. OMIPL/ATR/23-24/ADSREPLY/02 dated 09.03.2024. Again, Noise level has been monitored at ambient & work zone i.e., DRI & CPP Area, Truck Parking Area, Construction Site of SMS and Rolling Mill, Construction Site of DRI; Narayanpur Village, Gokulpur Village & Panchrulia Village by third party monitoring agency Qualissure Laboratory Services, Kolkata which is a NABL accredited laboratory. As per monitoring reports of March 2024, levels are as follows:												
		<table border="1"> <thead> <tr> <th>Location</th> <th>Leq dB (Day)</th> <th>Leq dB (Night)</th> <th>Average dB</th> </tr> </thead> <tbody> <tr> <td>DRI & CPP Area</td> <td>58.6</td> <td>52.3</td> <td>54.3</td> </tr> <tr> <td>Truck</td> <td>59.8</td> <td>52.0</td> <td>54.7</td> </tr> </tbody> </table>	Location	Leq dB (Day)	Leq dB (Night)	Average dB	DRI & CPP Area	58.6	52.3	54.3	Truck	59.8	52.0	54.7
Location	Leq dB (Day)	Leq dB (Night)	Average dB											
DRI & CPP Area	58.6	52.3	54.3											
Truck	59.8	52.0	54.7											

Half yearly compliance report
M/s Orissa Metallurgical Industry Private Limited

		<p>rolling mill is planned, so according SMS & Rolling mill is being constructed simultaneously.</p> <p>As on date no reheating furnaces are installed and if installed in future, regenerative/recuperative type burners on all reheating furnaces will be installed.</p>
VI. Waste Management		
i	An attrition grinding unit to improve the bulk density of BF granulated slag from 1.0 to 1.5 Kg/l shall be installed to use slag as river sand in construction industry.	<p>Agreed and Noted for compliance.</p> <p>Blast furnace is still not implemented. Post implementation of the BF, the slag generated will be used for making cement in associate company cement grinding plant of the Group.</p>
ii	Carbon recovery plant to recover the elemental carbon present in GCP slurries for use in Sinter plant shall be installed.	<p>Agreed and Noted for compliance.</p> <p>Blast furnace is still not implemented and will be implemented in phase manner. Dry gas cleaning plant (cyclone with bag filter) is proposed with BF gas for final cleaning the dust content below 5 mg/Nm³. The collected dust will be used for sintering.</p>
iii	Used refractories shall be recycled as far as possible.	<p>Refractories have been installed in operational DRI i.e. 2 x 500 TPD + 2 x 350 TPD DRI kiln for which consent to operate obtained from West Bengal Pollution Control Board vide CTO no. C0144053 dated 17.10.2023. The life of the refractories is 02 years (average).</p> <p>The used refractories after its life span will be used in cement plant of the associate company of the Group.</p>
iv	100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.	<p>Agreed and noted for compliance.</p> <p>Project is still under the construction phase and only 2 x 500 TPD + 2 x 350 TPD DRI plant is under operation. No Fly ash is being generated.</p> <p>Fly ash generated from CFBC boiler (yet to be implemented) will be 100% utilize for brick making and ACC block making.</p> <p>MOU for utilization of fly ash in cement plant of associate company (Rashmi Cement Limited (Cement Division), Jhargram & M/s Orissa Metallurgical Industry Private Limited, Cement (Formerly Bansal Cement Pvt. Ltd). Kharagpur already made and submitted to ministry.</p>
v	Oil Collection pits shall be provided in oil cellars to	<p>Agreed and noted for compliance.</p> <p>Rolling mill is still under construction phase</p>

	collect and reuse/recycle spilled oil. Oil collection trays shall be provided under coils on saddles in cold rolled coil storage area.	and in design phase of the rolling mill the said point is taken into consideration. Oil collection pits will be provided in oil cellars to collect and reuse/recycle spilled oil.
vi	Kitchen waste shall be composted or converted to biogas for further use.	Agreed and being complied with. Kitchen waste are composted and use as manure for green belt development.
VII. Green Belt		
i	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.	GHG emissions inventory has already been prepared by the NABET accredited consultant Centre for Envotech and Management Consultancy Pvt. Ltd., Bhubaneswar during EIA study of proposed Expansion of Integrated Steel Plant (1.0 Million TPA To 2.0 Million TPA Finished Steel) With 385 MW Captive Power Plant. Copy of the GHG emissions inventory is already submitted to IRO, MoEF&CC vide letter no. OMIPL/ENV COMPL/JUNE 2023 dated 25.05.2023.
ii	Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames.	Reply to the subject condition is already stated in point no. ii under Specific Conditions.
VIII. Public hearing and Human Health Issues		

Half yearly compliance report
M/s Orissa Metallurgical Industry Private Limited

i	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Complied. HIRA report and Disaster Management Plan have been prepared by NABET accredited consultant is already submitted to IRO, MoEF&CC vide letter no. OMIPL/ENV COMPL/JUNE 2023 dated 25.05.2023 and is implemented project wise.
ii	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.	Is being complied with. Proper PPE's provided for the worker. Without proper PPEs no one is allowed to work inside the plant premises. Safety awareness campaigns organised inside the plant premises with the objective of demonstrating the use of PPEs in different work zone and explaining the benefit of using PPEs. Copy of heat stress analysis report conducted by Indicative Consultant India is enclosed as Annexure-XI .  Tool Box Training Working with Proper PPE
iii	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.	Being Complied. The occupational health surveillance of the workers employed during operation & construction phase has been done and records are maintained as per the Factories Act. X-ray, audiometry test and blood test has been conducted for the workers employed during operation & construction phase and the report is submitted with Action Taken Report to Sub-Regional Office of the ministry, Kolkata vide letter no. OMIPL/ATR/23-24/ADSREPLY/02 dated 09.03.2024. The OHS Record is attached as Annexure-XII .

IX. Environment Management

i	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-	In FY 2023-24 under the head of CSR/CER Rs. 1,52,30,987.0 is spent under CER to full fill all the commitments.
---	---	--

FOR ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED
[Signature]
Director/Authorized Signatory

	IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and Undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.	Photographs are already mentioned earlier in point no. xxxi under Specific Conditions.
ii	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/ violation of the environmental/ forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest/ wildlife norms / conditions and/or shareholders/stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	The company shall have a well laid down environmental policy duly approved by the board of directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/ violation of the environmental/ forest/wildlife norms/ conditions. The company shall have defined system of reporting infringements/ deviation/violation of the environmental/forest/ wildlife norms/ conditions and / or shareholders/stake holders. EHS policy is already submitted to IRO, MoEF&CC vide letter no. OMIPL/ENV COMPL/JUNE 2023 dated 25.05.2023.
iii	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.	A separate Environmental cell both at project and company head quarter is in place. The Framework of EHS is already submitted to IRO, MoEF&CC vide letter no. OMIPL/ENV COMPL/JUNE 2023 dated 25.05.2023.
X. Miscellaneous		

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

Director/Authorized Signatory

Half yearly compliance report
M/s Orissa Metallurgical Industry Private Limited

i	<p>The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.</p>	<p style="text-align: center;">Complied.</p> <p>Advertisement for expansion project environment clearance dated 11.10.2022 issued by MOEFCC in favour of Orissa Metallurgical Industry Pvt. Ltd. published in two local newspapers that are widely circulated in the region are:</p> <ol style="list-style-type: none">1. Aajkal dated 13.10.2022 (Bengali)2. The Echo of India dated 13.10.2022 (English) <p>Copies of latest advertisement are already submitted to IRO, MoEF&CC vide letter no. OMIPL/ENV COMPL/JUNE 2023 dated 25.05.2023.</p> <p>Advertisement for environmental conditions and safeguards published in two local newspapers [Aajkal dated 26.01.2024 (Bengali) & The Echo of India dated 26.01.2024 (English)] that are widely circulated in the region and copies of advertisement submitted with Action Taken Report to Sub-Regional Office of the ministry, Kolkata vide letter no. OMIPL/ATR/23-24/ADSREPLY/02 dated 09.03.2024.</p>
ii	<p>The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayat and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.</p>	<p style="text-align: center;">Complied.</p> <p>Copies of EC dated 11.10.2022 w.r.t EC obtained in favour of Orissa Metallurgical Industry Pvt. Ltd. submitted to DM, Paschim Medinipur & Kalaikunda Gram Panchayat vide letter dated 13.10.2022 and mail dated 13.10.2022.</p> <p>Intimation letters are already submitted to IRO, MoEF&CC vide letter no-OMIPL/ENV COMPL/JUNE 2023 dated 25.05.2023.</p>
iii	<p>The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their</p>	<p style="text-align: center;">Complied.</p> <p>The environmental clearance and status of compliance of the stipulated environment clearance conditions, including results of monitored data uploaded and updated on</p>

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

Director/Authorized Signatory


Half yearly compliance report
M/s Orissa Metallurgical Industry Private Limited


	website and update the same on half-yearly basis.	regular basis on the website of the company http://orissametaliks.com/qehs.html
iv	The project proponent shall monitor the criteria pollutants level namely; PM ₁₀ , SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	Being Complied. The criteria pollutants level namely; PM ₁₀ , PM _{2.5} , SO ₂ , NO _x (ambient levels as well as stack emissions) is monitored by third party monitoring agency which is NABL accredited laboratory and displayed at the plant main gate. Ambient data collected from CAAQMS is uploaded on the website of the company with six monthly EC compliance report https://orissametaliks.com/qehs.php .
v	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Being Complied. The last Six monthly compliance reports for the period (April 2023 to September 2023) uploaded on parivesh portal on 30.11.2023 vide compliance ID -26096206.
vi	The project proponent shall submit the environmental statement for each financial year in Form - V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	Agreed and noted for compliance. The project is still under construction phase. The first consent to operate for the project i.e. 2 x 500 TPD + 2 x 350 TPD DRI kiln for obtained from West Bengal Pollution Control Board vide CTO no. C0144053 dated 17.10.2023. The environmental statement for financial year 2023-2024 will be submitted in prescribed format to WBPCB on or before 30 th September 2024 and copy of the same will be submitted to Regional Office of the MoEF&CC with six monthly EC compliance report.
vii	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concern authorities, commencing the land	Noted The company is a private company and no finance is needed from outside. Land development work has been started after getting NOC from WBPCB.

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

Director/Authorized Signatory

Half yearly compliance report
M/s Orissa Metallurgical Industry Private Limited

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

	conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/information/ monitoring reports.	
8	The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.	Agreed and noted.
9	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the EPA, 1986.	Agreed and noted.
10	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Agreed and Noted.
11	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)	Agreed and Noted.  For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED Director / Authorized Signatory

	Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/ High Courts and any other Court of Law relating to the subject matter.	
--	--	--

Transfer of Environmental Clearance titled "Proposed 1.0 MTPA Integrated Steel Plant along with 225 MW Captive Power Plant" from M/s Orissa Metaliks Private Limited to M/s Orissa Metallurgical Industry Private Limited vide F. No. J-11011/56/2017-IA.II(I), Dated: 03.08.2021

S. No.	Conditions	Compliance status
i)	M/s Orissa Metallurgical Industry Private Limited shall comply with the entire specific and general conditions stipulated in the environment clearance letter of even no. dated 18.05.2021.	Agreed and being complied.
ii)	In case, there is a change in scope of the project, fresh environment clearance shall be obtained.	Agreed and being complied. In compliance to this point the management of OMIPL has obtained TOR for EC expansion as per EIA notification 2006 from MoEFCC, New Delhi vide File No-. J- 11011/56/2017-IA II (I); Dated-23.11.2021. New EC bearing the file no. IA-J-11011/56/2017-IA-II(I) dated 11.10.2022.

Environmental Clearance for proposed 1.0 MTPA integrated steel plant along with 225 MW CPP issued vide F. No. IA-J-11011/56/2017-IA-II (I), Dated: 18.05.2021

S. No.	Specific Conditions	Compliance Status
I.	PM emissions from the stacks shall be less than 30	Agreed and is being/will be complied.

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

Director/Authorized Signatory

	mg/nm ³ .	The said condition is already covered in compliance point no. xiii of Specific conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II (I); dated 11.10.2022.	
II.	Steel plant shall have following specific facilities for cleaner production:	--	
	a	Modified wet quenching facility complete with sampling facility shall be provided.	The said condition has been modified and is already covered in compliance point no. vii of Specific conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.
	b	BF shall have Top Pressure Recovery Turbines (TRT).	The said condition has been modified and is already covered in compliance point no. viii of Specific conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.
	c	Electric Arc Furnace (EAF) and Submerged Arc Furnace (SAF) shall be closed type and forth hole extraction system shall be included for fume control from these furnaces.	Agreed and noted for compliance. No electric arc furnace (EAF) is proposed with EC accorded project. Submerged Arc Furnace (SAF) with ferro alloy plant is proposed and civil foundation works and structure erection going on EC accorded ferro alloy plant. In design phase of the SAF fourth hole extraction system has been considered for fume control from these furnaces
	d	Zigging and Briquetting plant shall be provided.	Agreed and noted for compliance. Zigging and Briquetting plant will be implemented in parallel with implementation of EC accorded ferro alloy plant in phase manner.
	e	Producer Gas Plant (PGP) shall be closed type and Phenolic water from PGP shall be	Agreed and noted for compliance. Producer gas plant will be installed in parallel with implementation of reheating furnace of

Half yearly compliance report
M/s Orissa Metallurgical Industry Private Limited

	treated for phenol, tar and cyanide.	rolling mill & coal dryer. In the design phase of the Producer gas plant the said point will be taken into consideration and phenolic water will be used in ABC of DRI kiln as per SOP of CPCB and coal tar will be used as a fuel in pellet plant.
f	Water requirement for the plant shall be met from surface water and ground water abstraction shall not be permitted.	The said condition has been modified and is already covered in compliance point no. xviii of Specific conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II (I); dated 11.10.2022.
g	Acid recovery plant shall be provided in Cold rolling Mill (CRM).	The said condition has been modified and is already covered in compliance point no. xii of Specific conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.
h	Solid waste generated from DI plant shall be reused/recycled/sold along with other solid waste from the steel plant.	Not applicable as Ductile Iron pipe unit has been surrendered in the EC obtained for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.
i	Iron ore tailings shall be dewatered using filter press and dry disposal of the tailings shall be practiced.	Not applicable as Pellet Plant and I/O Beneficiation Plant has been surrendered in the EC obtained for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.
j	Incinerator shall be included for disposal of oily scum and oil sludge from CRM.	Agreed and noted for compliance. Cold Rolling Mill (CRM), color coating and galvanizing plants will be installed in phase manner as per market demand. Incinerator will be done for disposal of oily scum and oil sludge from CRM.
K	Performance Evaluation	The said condition has been modified and is

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

Director/Authorized Signatory

Half yearly compliance report
M/s Orissa Metallurgical Industry Private Limited

		tests for all Pollution Control Devices shall be carried out on yearly basis and reported to RO.	already covered in compliance point no. xiv of Specific conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.
	i	Rain water harvesting in 100% area of plant shall be carried out.	The said condition has been modified and is already covered in compliance point no. xvi of Specific conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.
	m	220 KLD Sewage Treatment Plant shall be installed to treat domestic sewage water.	While obtaining the expansion/consolidated latest EC issued by ministry vide EC no.- EC22A008WB158432 issued vide File No- IA-J-11011/56/2017-IA II (I) dated 11.10.2022, company has proposed in EIA/EMP submitted on parivesh portal to install 2 x 140 KL STP on SBR or MBBR technology. As the project is still in construction phase, looking after the current domestic water demand and waste water generation, 50 KLD STP based on SBR technology is installed and same will be replace with increase in domestic waste water generation.
III.		Following energy conservation measures shall be installed.	
	a.	Power Generation with Top Pressure Recovery Turbines (TRT) in blast Furnace.	The said condition has been modified and is already covered in compliance point no. viii of Specific conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.
	b.	Steam generation from Waste Heat Recovery Boiler (WHRB) evaporator attached with Sinter Cooler.	The said condition has been modified and is already covered in compliance point no. v of Specific conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No.

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

Director/Authorized Signatory

Half yearly compliance report
M/s Orissa Metallurgical Industry Private Limited

		EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.
C.	Evaporator will be installed in annealing furnace of DI Pipe plant to generate steam from waste head.	Not applicable as Ductile Iron pipe unit has been surrendered in the EC obtained for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.
d.	Recuperator will be installed to recover heat from BF stove waste gas and used for stove gas reheating reducing requirement of fuel gas.	The said condition is already covered in compliance point no. xv of Specific conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.
e.	100% consumption of Dolo char in circulating fluidized bed combustion boiler (CFBC) based boiler.	The said condition is already covered in compliance point no. xx of Specific conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.
f.	Power Generation with Waste Heat Recovery Boiler (WHRB) in coke oven plant.	Agreed and will be complied with. While obtaining the expansion/consolidated latest EC issued by ministry vide EC no.- EC22A008WB158432 issued vide File No- IA-J-11011/56/2017-IAII (I) dated 11.10.2022, company has proposed to provide Waste Heat Recovery Boiler (WHRB) in coke oven plant to generate 41 MW power.
g.	85-90% Direct hot charging of billet from SMS Rolling Mill	The said condition has been modified and is already covered in compliance point no. xi of Specific conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.
h.	Energy Recovery from oily scum and metallic sludge by briquetting and reuse.	Agreed and Noted for compliance.

FOR ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

Director/Authorized Signatory

Half yearly compliance report
M/s Orissa Metallurgical Industry Private Limited

IV.	All natural drainages in the plant area shall be protected.	Agreed and noted.
V.	No ground water shall be withdrawn.	The said condition has been modified and is already covered in compliance point no. xviii of Specific conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II (I); dated 11.10.2022.
VI.	3 Nos. of Continuous Ambient Air Quality Monitoring Station (CAAQMS) shall be installed and location of these stations shall be finalized in consultation with West Bengal Pollution Control Board (WBPCB).	The said condition has been modified and is already covered in compliance point no. i of Air quality monitoring and preservation (II) of General conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II (I); dated 11.10.2022.
VII.	85% of raw materials and finished goods shall be transported by dedicated railway siding facility of Rashmi Group.	The said condition has been modified and is already covered in compliance point no. xvii of Specific conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II (I); dated 11.10.2022.
VIII.	All plant roads shall be paved and industrial vacuum cleaners shall be used to clean the roads regularly.	The said condition has been modified and is already covered in compliance point no. xxix of Specific conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II (I); dated 11.10.2022.
IX.	The raw material shall be stored in covered shades. All stockyards shall have impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains to trap the run off material.	Project is still in construction phase and only 2 x 500 TPD + 2 x 350 TPD DRI plant is under operation. Impervious flooring with water spraying system in in place in DRI plant area. Garland drain is constructed and connected to pit. The raw material stock are stored in covered shed and also covered with industrial grade taruplin and water is sprayed by movable water mist fog

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

Director/Authorized Signatory

Half yearly compliance report
M/s Orissa Metallurgical Industry Private Limited

		cannon system on raw material.
X.	Rain water harvesting shall be practiced extensively.	The said condition has been modified and is already covered in compliance point no. xvi of Specific conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.
XI.	40.1 ha land shall be brought under green belt@ 2500 tree per ha in 3 years.	The said condition has been modified and is already covered in compliance point no. xxv of Specific conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.
XII.	Ultralow NOx burner with three stage combustion, flue, gas recirculation and auto combustion control system shall be used.	The said condition is already covered in compliance point no. xxi of Specific conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.
XIII.	Energy efficient drives, VFD for auxiliary motors, slip power recovery for motors above 1000 KW shall be provided.	The said condition is already covered in compliance point no. xxii of Specific conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.
XIV.	Ventilation system for odour control in bitumen coating area shall be included.	The said condition is already covered in compliance point no. xxiii of Specific conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.
XV.	Zn dust monitoring in AAQ in DI plant shall be carried out.	Not applicable as Ductile Iron pipe unit has been surrendered in the EC obtained for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No.
XVI.	ETP shall be provided for DI plant exclusively.	

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED


Director/Authorized Signatory

		EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.
--	--	---

S. No.	General Conditions	Compliance Status
I. Statutory compliance:		
i	The Environment Clearance (EC) granted to the project/activity is strictly under the provisions of the EIA Notification, 2006 and its Amendments issued from time to time. It does not tantamount/construe to approvals/consent/permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc.as may be applicable to the project.	Agreed and Noted.
II. Air quality monitoring and preservation		
i	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 03 Nos. Continuous Ambient Air Quality Station (CAAQS) FOR MONITORING AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The Continuous Emission Monitoring Station (CEMS) AND CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act,1986 or NABL accredited laboratories.	The said condition has been modified and is already covered in compliance point no. i of Air quality monitoring and preservation (II) of General conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II (I); dated 11.10.2022.
ii	The project proponent shall monitor fugitive emission in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	The said condition is already covered in compliance point no. ii of Air quality monitoring and preservation (II) of General conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power

Half yearly compliance report
M/s Orissa Metallurgical Industry Private Limited

		Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II (I); dated 11.10.2022.
iii	Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions.	The said condition is already covered in compliance point no. iii of Air quality monitoring and preservation (II) of General conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II (I); dated 11.10.2022.
iv	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.	The said condition is already covered in compliance point no. iv of Air quality monitoring and preservation (II) of General conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II (I); dated 11.10.2022.
v	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	The said condition is already covered in compliance point no. v of Air quality monitoring and preservation (II) of General conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II (I); dated 11.10.2022.
vi	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.	The said condition is already covered in compliance point no. vi of Air quality monitoring and preservation (II) of General conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No.

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

 Director/Authorized Signatory

Half yearly compliance report
M/s Orissa Metallurgical Industry Private Limited

		- IA-J-11011/56/2017-IA-II (I); dated 11.10.2022.
vii	Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/agglomeration.	The said condition is already covered in compliance point no. vii of Air quality monitoring and preservation (II) of General conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II (I); dated 11.10.2022.
viii	The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.	The said condition is already covered in compliance point no. viii of Air quality monitoring and preservation (II) of General conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II (I); dated 11.10.2022.
ix	Facilities for spillage collection shall be provided for coal and coke on wharf of coke oven batteries (chain conveyors, land based industrial vacuum cleaning facility).	The said condition is already covered in compliance point no. ix of Air quality monitoring and preservation (II) of General conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II (I); dated 11.10.2022.
x	Land-based APC system shall be installed to control coke pushing emissions.	The said condition is already covered in compliance point no. x of Air quality monitoring and preservation (II) of General conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II (I); dated 11.10.2022.

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

Director/Authorized Signatory

xi	Monitor CO, HC and O ₂ in flue gases of the coke oven battery to detect combustion efficiency and cross leakages in the combustion chamber.	The said condition is already covered in compliance point no. xi of Air quality monitoring and preservation (II) of General conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II (I); dated 11.10.2022.
xii	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.	The said condition is already covered in compliance point no. xiii of Air quality monitoring and preservation (II) of General conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II (I); dated 11.10.2022.
xiii	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.	The said condition is already covered in compliance point no. xiv of Air quality monitoring and preservation (II) of General conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.

III. Water quality monitoring and preservation

I	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. 277(E) dated 31 st March 2012(Integrated iron & Steel); G.S.R 414 (E) dated 30 th May 2008(sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7 th December 2015 (Thermal Power Plants) as	The said condition is already covered in compliance point no. i of Water quality monitoring and preservation (III) of General conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.
---	--	--

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

Director/Authorized Signatory

	amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act,1986 or NABL accredited laboratories. The project proponent shall monitor regularly ground water quality at least twice a year at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act , 1986 and NABL accredited laboratories .	
ii	The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act,1986 and NABL accredited laboratories.	The said condition is already covered in compliance point no. ii of Water quality monitoring and preservation (III) of General conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.
iii	The project proponent shall provide the ETP to meet the standards prescribed in G.S.R. 277 (E) dated 31 st March 2012(Integrated iron & Steel); G.S.R. 414 (E) dated 30 th May 2008 (Sponge Iron) as amended from time to time ; S.O. 3305 (E) dated 7 th December 2015 (Thermal Power Plants) as amended from time to time.	Project is still under the construction phase and plant is being designed as Zero Liquid Discharge Plant and 100% water is/will be treated and recycled for dust suppression & green belt development. Currently primary ETP plant is installed for operational DRI plant. With implementation of EC/ TOR accorded project ETP with oil & grease separator of 1 x 1200 KLD & ETP from CRM mill for 1 x 1000 KLD.
iv	Garland drains and collection pits shall be provided for each stock pile to arrest the run off in the event of heavy rains and to check the water pollution due to surface run off.	The said condition is already covered in compliance point no. iv of Water quality monitoring and preservation (III) of General conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

Director/Authorized Signatory

Half yearly compliance report
M/s Orissa Metallurgical Industry Private Limited

		having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.
v	Tyre washing facilities shall be provided at the entrance of the plant gates.	The said condition is already covered in compliance point no. v of Water quality monitoring and preservation (III) of General conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.
vi	Water meters shall be provided at the inlet to all unit processes in the steel plants.	The said condition is already covered in compliance point no. vi of Water quality monitoring and preservation (III) of General conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.
IV. Noise monitoring and prevention		
i	Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as part of six-monthly compliance report.	The said condition is already covered in compliance point no. i of Noise monitoring and prevention (IV) of General conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.
V. Energy Conservation measures		
i	Use torpedo ladle for hot metal transfer as far as possible. If ladles not used, provide covers for open top ladles.	The said condition is already covered in compliance point no. i of Energy Conservation measures (V) of General conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.
ii	Restrict Gas flaring to < 1 %.	The said condition is already covered in

		compliance point no. ii of Energy Conservation measures (V) of General conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.
iii	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;	The said condition is already covered in compliance point no. iii of Energy Conservation measures (V) of General conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.
iv	Provide LED light in their offices and residential areas.	The said condition is already covered in compliance point no. iv of Energy Conservation measures (V) of General conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.
v	Ensure installation of regeneration type burners on all reheating furnaces.	The said condition is already covered in compliance point no. v of Energy Conservation measures (V) of General conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.
VI. Waste Management		
i	An attrition grinding unit to improve the bulk density of BF granulated slag from 1.0 to 1.5 Kg/l shall be installed to use slag as river sand in construction industry.	The said condition is already covered in compliance point no. i of Waste Management (VI) of General conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

[Signature]
Director/Authorized Signatory

Half yearly compliance report
M/s Orissa Metallurgical Industry Private Limited

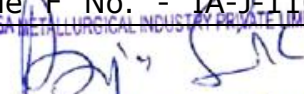
		MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.
ii	Carbon recovery plant to recover the elemental carbon present in GCP slurries for use in Sinter plant shall be installed.	The said condition is already covered in compliance point no. ii of Waste Management (VI) of General conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.
iii	Used refractories shall be recycled as far as possible.	The said condition is already covered in compliance point no. iii of Waste Management (VI) of General conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.
iv	100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.	The said condition is already covered in compliance point no. iv of Waste Management (VI) of General conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.
v	Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil. Oil collection trays shall be provided under coils on saddles in cold rolled coil storage area.	The said condition is already covered in compliance point no. v of Waste Management (VI) of General conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.
vi	Kitchen waste shall be composted or converted to biogas for further	The said condition is already covered in compliance point no. vi of Waste

	use.	Management (VI) of General conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.
VII. Green Belt		
i	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.	Being complied with in a time bound manner. GHG emissions inventory for the EC accorded project configuration is prepared by CSIR-Central Institute of Mining & Fuel Research, Dhanbad and is submitted to competent authority (WBPCB, IRO, MoEFCC-Kolkata) vide letter no-OMIPL/ENV COMPL/JUNE 2022 dated 25.05.2022. Also, latest copy of the GHG emissions inventory is already submitted to IRO, MoEF&CC vide letter no. OMIPL/ENV COMPL/JUNE 2023 dated 25.05.2023.
VIII. Public hearing and Human Health Issues		
I	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Complied. HIRA report and Disaster Management Plan have been prepared by NABET accredited consultant and is already submitted to IRO, Kolkata with Six monthly EC compliance for Dec-21 (period-Apr.21 to Sept. 21) vide letter dated 27.11.2021.
ii	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.	The said condition is already covered in compliance point no. ii of Public hearing and Human Health Issues (VIII) of General conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.
iii	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.	The said condition is already covered in compliance point no. iii of Public hearing and Human Health Issues (VIII) of General conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0

For Director/Authorized Signatory


Director/Authorized Signatory

		million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.
IX. Corporate Environment Responsibility		
i	The project proponent shall comply with the provisions contained in this Ministry's OM vide F. No. 22-65/2017- IA. III dated 30/09/2020.	The said condition has been modified and is already covered in compliance point no. i of Environment Management (IX) of General conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.
ii	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/ violation of the environmental /forest/wildlife norms/ conditions. The company shall have defined system of reporting infringements/ deviation/violation of the environmental/ forest/ wildlife norms/conditions and/or shareholders/stake holders. The copy of the board resolution in this regard shall be submitted to the MOEF & CC as a part of six-monthly report.	The said condition has been modified and is already covered in compliance point no. ii of Environment Management (IX) of General conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.
iii	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.	The said condition has been modified and is already covered in compliance point no. iii of Environment Management (IX) of General conditions issued for Expansion of Integrated Steel Plant (1.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No. - IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.

FOR ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

Director/Authorized Signatory

		II(I); dated 11.10.2022.
X. Miscellaneous		
i	<p>The project proponent shall make public the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.</p>	<p style="text-align: center;">Complied.</p> <p>Advertisement for environment clearance dated 18.05.2021 in favour of Orissa Metaliks Pvt. Ltd. published in two local newspapers that are widely circulated in the region are:</p> <ol style="list-style-type: none">1. Aajkal dated 20.05.2021 (Bengali)2. The Echo of India dated 20.05.2021 (English) <p>Advertisement for environment clearance transfer dated 03.08.2021 in favour of Orissa Metallurgical Industry Pvt. Ltd. from Orissa Metaliks Pvt. Ltd. published in two local newspapers that are widely circulated in the region are:</p> <ol style="list-style-type: none">1. Aajkal dated 06.08.2021 (Bengali)2. The Echo of India dated 06.08.2021 (English) <p>The same is already submitted to IRO, Kolkata with Six monthly EC compliance for Dec-21 (period-Apr.21 to Sept. 21) vide letter dated 27.11.2021.</p>
ii	<p>The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayat and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.</p>	<p style="text-align: center;">Complied.</p> <p>Copies of EC dated 18.05.2021 w.r.t EC obtained in favour of Orissa Metaliks (P) Ltd. submitted to DM, Paschim Medinipur & Kalaikunda Gram Panchayat vide letter dated 14.07.2021 and mail dated 06.10.2021.</p> <p>Copies of EC dated 03.08.2021 w.r.t EC transfer in favour of Orissa Metallurgical Industry Pvt. Ltd submitted to DM, Paschim Medinipur & Kalaikunda Gram Panchayat vide letter dated 16.08.2021 and 16.08.2021.</p> <p>The same is already submitted to IRO, Kolkata with Six monthly EC compliance for Dec-21 (period-Apr.21 to Sept. 21) vide letter dated 27.11.2021.</p>

Half yearly compliance report
M/s Orissa Metallurgical Industry Private Limited

iii	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Complied. The environmental clearance and status of compliance of the stipulated environment clearance conditions, including results of monitored data uploaded and updated on regular basis on the website of the company http://orissametaliks.com/qehs.html
iv	The project proponent shall monitor the criteria pollutants level namely; PM ₁₀ , SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	Being Complied. The criteria pollutants level namely; PM ₁₀ , PM _{2.5} , SO ₂ , NO _x (ambient levels as well as stack emissions) is monitored by third party monitoring agency which is NABL accredited laboratory and displayed at the plant main gate. Ambient data collected from CAAQMS is uploaded on the website of the company with six monthly EC compliance report https://orissametaliks.com/qehs.php .
v	The project proponent shall submit six-monthly reports on the status of the compliance Environment, Forest and Climate Change at environment clearance portal.	Being Complied. The last Six monthly compliance reports for the latest EC for period (April 2023 to September 2023) uploaded on parivesh portal on 30.11.2023 vide compliance ID -26096206. Copy of the uploaded compliance report submitted with Action Taken Report to Sub-Regional Office of the ministry, Kolkata vide letter no. OMIPL/ATR/23-24/ADSREPLY/02 dated 09.03.2024.
vi	The project proponent shall submit the environmental statement for each financial year in Form - V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	Agreed and noted for compliance. The project is still under construction phase. The first consent to operate for the project i.e. 2 x 500 TPD + 2 x 350 TPD DRI kiln for obtained from West Bengal Pollution Control Board vide CTO no. C0144053 dated 17.10.2023. The environmental statement for financial year 2023-2024 will be submitted in prescribed format to WBPCB on or before 30 th September 2024 and copy of the same will be submitted to Regional Office of the MoEF&CC with six monthly EC compliance report.

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED


Director / Authorized Signatory

Half yearly compliance report
M/s Orissa Metallurgical Industry Private Limited

vii	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concern authorities, commencing the land development work and start of production operation by the project.	Noted. The company is a private company and no finance is needed from outside. Land development work has been started after getting NOC from WBPCB.
viii	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	Agreed and being complied.
ix	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MOEF&CC).	Being Complied. In compliance to this point, expansion EC obtained for expansion of Integrated Steel Plant (1.0 Million TPA To 2.0 Million TPA Finished Steel) With 385 MW Captive Power Plant by M/s Orissa Metallurgical Industry Pvt. Ltd., vide EC identification NoEC22A008WB158432 issued vide file no. IA-J-11011/56/2017-IA-II (I) dated 11.10.2022 by ministry.
x	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Agreed and noted.
xi	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed and noted.
xii	The Ministry reserves the right to stipulate additional conditions if found necessary.	Agreed and noted.

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

Director/Authorized Signatory

Half yearly compliance report
M/s Orissa Metallurgical Industry Private Limited

	The Company in a time bound manner shall implement these conditions.	
xiii	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/information/monitoring reports.	Agreed and noted.
xiv	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Agreed and 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).	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.


For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

Director/Authorized Signatory

**Half Yearly Compliance Report
2024**

01 Jun(01 Oct - 31 Mar)

Acknowledgment

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

Compliance Reporting Details

Reporting Year	2024
Remarks (if any)	Compliance Report for Period from October 2023 to March 2024 for the 'Expansion of Integrated Steel Plant (1.0 Million TPA to 2.0 Million TPA Finished Steel) With 385 MW Captive Power Plant' at Mouza: Amba, Mathurakismat, Ghoshalchak, Radhanagar, Serampurgia, Mollarchak, Katapole, Tarabamni And Dhularchak, Village – Gokulpur, P.O – Shyamraipur, P.S – Kharagpur (L) Dist. Paschim Medinipur, West Bengal.
Reporting Period	01 Jun(01 Oct - 31 Mar)

Details of Production and Project Area

Name of Entity / Corporate Office	Expansion of Integrated Steel Plant (1.0 Million TPA to 2.0 Million TPA Finished Steel) With 385 MW Captive Power Plant	
	Project Area as per EC Granted	Annual Project Area in Possession
Private	147.71	147.71

Revenue Land	0	0
Forest	0	0
Others	0	0
Total	147.71	147.71

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	SPONGE IRON	Million Tons per Annum (MTPA)	31/07/2028	2.9	-	0.561
2	CAPTIVE POWER (WHRB)	MW	31/07/2028	250	-	60
3	METALLURGICAL COKE	Million Tons per Annum (MTPA)	N/A	0.55	-	-
4	TMT BAR, WIRE & WIRE ROD	Million Tons per Annum (MTPA)	N/A	0.8	-	-
5	CAPTIVE POWER (CFBC)	MW	N/A	135	-	-
6	HR PRODUCT (FLAT, COIL); SEAMLESS PIPE; GALVANISED/GALVALUME/ COLOUR COATED PRODUCT	Million Tons per Annum (MTPA)	N/A	1.2	-	-
7	RAILWAY SIDING	Others:NUMBER	N/A	01	-	-
8	HOT LIQUID METAL/ PIG IRON	Million Tons per Annum (MTPA)	N/A	0.75	-	-
9	SINTER	Million Tons per Annum (MTPA)	N/A	1.29	-	-
10	M.S. BILLETS & SLAB	Million Tons per Annum (MTPA)	N/A	2.16	-	-
11	FERRO ALLOY (FeMn, SiMn, FeCr & FeSi)	Million Tons per Annum (MTPA)	N/A	0.18	-	-
12	CALCINED LIME & DOLOMITE	Tons per Day (TPD)	N/A	300	-	-
13	OXYGEN	Tons per Day (TPD)	N/A	400	-	-
14	WASHED COAL	Million Tons per Annum (MTPA)	N/A	2.1	-	-
15	PRODUCER GAS	Cu.M/Hr	N/A	37500	-	-
16	Metal Recovery (SMS Slag Crusher)	Others:TPH	N/A	120	-	-
17	Metal Recovery (Jigging Plant)	Tons per Day (TPD)	N/A	80	-	-
18	Briquette (Chrome Briquette plant)	Others:TPH	N/A	40	-	-

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	WASTE MANAGEMENT	Tar shall be recovered from producer gas and shall be sold to registered processors and Phenolic water from PGP shall be treated for phenol, tar and cyanide.
PPs Submission: Agreed to Comply Producer Gas Plant has not been implemented yet. Agreed and will be complied once the project comes in operation. Producer Gas will be used as a fuel in reheating furnace of rolling mill & coal dryer. As the reheating furnace of rolling mill & coal dryer is not installed and the validity of EC is not expired, producer gas plant will be installed in parallel with implementation of reheating furnace of rolling mill & coal dryer.		Date: 29/05/2024
2	Statutory compliance	The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
PPs Submission: Agreed to Comply The project is still in construction phase. Only 2 x 350 + 2 x 500 TPD DRI along with WHRB based CPP 60 MW is in operation after obtaining valid CTO from WBPCB. All the environmental protection measures and safeguards proposed during construction phase & operational phase (i.e. use of movable water tanker, sweeping machine, water mist fog canon system installation of APCD like ESP bag filter WHRB etc.) being complied.		Date: 29/05/2024
3	WATER QUALITY MONITORING AND PRESERVATION	Ultralow NOx burner with three stage combustion, flue gas recirculation and auto combustion control system shall be used.
PPs Submission: Agreed to Comply Currently 60 MW WHRB based Power plant is in operation. In parallel with implementation of CFBC based CPP, company will install ultra-low NOx burner as per three stage combustion along with flue gas recirculation and auto combustion control system. The said condition will be taken care of at the time of finalizing the plant/process design.		Date: 29/05/2024
4	ENERGY PRESERVATION MEASURES	Energy efficient drives, VFD for auxiliary motors, slip power recovery for motors above 1000 KW shall be provided.
PPs Submission: Being Complied Energy efficient drives, VFD for auxiliary motors and slip power recovery system for motors above 1000 KW is installed in operational units and the same will be complied for unimplemented/rest of EC sanctioned project.		Date: 29/05/2024
5	WASTE MANAGEMENT	Solid waste utilization: b. PP shall recycle/reuse solid waste generated in the plant as far as possible.
PPs Submission: Being Complied Generated dolochar being used in CFBC boiler of associate company. Dusts from APC Device are being used in sinter plant of associate company, land levelling and brick making. TCLP test of dolochar is attached.		Date: 29/05/2024
6	Statutory compliance	Coke oven plant shall be equipped with modified wet quenching system.

<p>PPs Submission: Agreed to Comply Coke oven Plant has not been implemented yet. The stipulated conditions will be complied by the project proponent. Civil foundation works and structure erection going on for EC accorded coke oven plant and will be implemented in parallel with the implementation of blast furnace in phase manner.</p>		Date: 29/05/2024
7	AIR QUALITY MONITORING AND PRESERVATION	Basic Oxygen Furnace (BOF) gas shall be cleaned dry.
<p>PPs Submission: Agreed to Comply Basic Oxygen Furnace (BOF) has not been implemented yet. The said condition will be complied once the project comes in operation. Basic Oxygen Furnace is used for further purification of Hot liquid molten metal manufactured from Blast furnace as per the market demand. As stated in point no.-vii, the blast furnace plant is not implemented and still the validity of the EC is not expired, Basic Oxygen Furnace will be implemented in parallel with implementation of blast furnace.</p>		Date: 29/05/2024
8	AIR QUALITY MONITORING AND PRESERVATION	Dust emission from Steel Plant stacks shall be up to 30 mg/Nm3.
<p>PPs Submission: Being Complied As stated in point i, currently 2 x 500 + 2 x 350 TPD DRI is under operational phase & APCD are designed to meet the latest emission norms of less than 30 mg/Nm3. CEMS data and latest stack emission report carried by NABL accredited laboratory on 04.11.2023 is uploaded as Annexure-II & III respectively.</p>		Date: 29/05/2024
9	WASTE MANAGEMENT	Solid waste utilization: a. PP shall install a slag crusher to convert steel slag into aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in cement making.
<p>PPs Submission: Agreed to Comply 3 x 40 TPH Slag crushing unit adopted for metal recovery from slag and all other guidelines will be complied. The validity of the existing EC is till 13.12.2032. As on date, Civil works and structure erection going on for EC accorded Steel Melting Shop with matching LRF & Rolling mill in phase manner. In order to recover metal from slag to be generated post implementation of Steel Melting Shop with matching LRF, civil works and structure erection going on for 1 x 40 TPH Slag crushing unit. Slag crushing unit will be implemented in parallel with implementation of Steel Melting Shop with matching LRF.</p>		Date: 29/05/2024
10	ENERGY PRESERVATION MEASURES	Blast Furnaces shall be equipped with Top Recovery Turbine (capacity more than 450 m3), dry gas cleaning plant, stove waste heat recovery, cast house and stock house ventilation system and slag granulation facility.
<p>PPs Submission: Agreed to Comply Blast furnace has not been implemented yet. Blast furnace will be equipped with Top Recovery Turbine and all other mentioned parameter will be complied. Currently, company has decided to manufacture steel from DRI-SMS route, so 2 x 500 TPD + 2 x 350 TPD DRI plant is commissioned and SMS & Rolling mill under construction phase. As stated in point no.-i, the validity of the EC is not expired the EC accorded blast furnace will be implemented in phase manner.</p>		Date: 29/05/2024
11	ENERGY PRESERVATION MEASURES	85-90 % of billets shall be rolled directly in hot stage. RHF shall operate using only Light Diesel Oil or Mixed BF/CO gas/Producer gas.
<p>PPs Submission: Agreed to Comply Agreed and will be complied once the project comes in operation. Currently no M.S. Billets is being</p>		Date: 29/05/2024

<p>manufactured. In order to comply with this point company is constructing Steel Melting Shop with Rolling Mill simultaneously. Post successful commissioning of the SMS & Rolling Mill, Billets will be directly rolled in hot stage in rolling mill for manufacture of final product.</p>		
12	<p>WATER QUALITY MONITORING AND PRESERVATION</p>	<p>The company shall also undertake rain water harvesting measures as per the plan submitted and reduce water dependence from the outside source.</p>
<p>PPs Submission: Complied Rainwater harvesting structure is proposed for the plant and has already been implemented for EC accorded project. 02 nos. Rain water harvesting ponds exists in the plant premises.</p>		<p>Date: 29/05/2024</p>
13	<p>MISCELLANEOUS</p>	<p>85% of raw materials and finished goods shall be transported by dedicated railway siding facility. In the event of delay in establishment of dedicated railway line, PP shall use another railway siding facility of Rashmi Group.</p>
<p>PPs Submission: Agreed to Comply In-principal approval for setting up the proposed private railway siding has been obtained from South Eastern Railway vide letter no. GW/1/OMIPL-NWOSC(IPA)/159 dated 08.08.2022. Also ESP, SIP & OHE approval and construction clearance obtained from Indian Railway. Construction work already started. Currently raw material and finished goods are being transported by 03 nos. private siding of Rashmi group (RML, OMPL & OASPL).</p>		<p>Date: 29/05/2024</p>
14	<p>WATER QUALITY MONITORING AND PRESERVATION</p>	<p>The total water requirement of 13,200 KLD will be obtained from Kansabati River & rain water harvesting structure. No ground water abstraction is permitted.</p>
<p>PPs Submission: Being Complied The raw water would be sourced from Kansabati river (13,200 KLD @ 342 days) and Rain Water Harvesting pond (13,200 @ 23 days). Water permission obtained from Irrigation & water Department, West Bengal from Kansai River Bed (22,248 KLD for 08 months or 243 days) vide letter no- 167-I/I-4M-05/14(Pt.II) dated 16.10.2020 in name of M/s Orissa Metaliks Pvt. Ltd. (Holding company of M/s Orissa Metallurgical Industry Pvt. Ltd.). After taking into consideration the interest and financial share cost, laying of pipeline, infrastructure development for water project had been done by holding company for meeting the water demand of M/s Orissa Metallurgical Industry Pvt. Ltd. Copy of water permission and schematic water distribution pattern is already submitted to IRO, MoEF&CC vide letter no. OMIPL/ENV COMPL/JUNE 2023 dated 25.05.2023.</p>		<p>Date: 29/05/2024</p>
15	<p>WATER QUALITY MONITORING AND PRESERVATION</p>	<p>02 Nos. rain water harvesting pond exist is within project site. Also, Kansabati River, other rainwater harvesting structures and ponds exists within the study area of 10 km from the project site. The water bodies shall not be disturbed. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.</p>
<p>PPs Submission: Being Complied As stated in point xvi rainwater harvesting structure is already implemented. The plant is being designed as ZLD and no waste water will be discharge outside the plant premises. The drainage conservation scheme, soil conservation scheme and multiple erosion control measures adopted by the company is submitted to Sub-Regional Office of the ministry, Kolkata vide letter no. OMIPL/ATR/23-24/ADSREPLY/02 dated 09.03.2024 and being implemented as per the scheme submitted.</p>		<p>Date: 29/05/2024</p>
16	<p>MISCELLANEOUS</p>	<p>Air cooled condensers shall be used in the Power plant. 100% consumption of Dolo char in CFBC based boiler.</p>
<p>PPs Submission: Being Complied</p>		<p>Date:</p>

Air Cooled Condensers (ACCs) are installed with WHRB based CPP. Currently dolochar being used in CFBC based Boiler of associate company.		29/05/2024
17	Human Health Environment	Ventilation system for odour control in bitumen coating area shall be included.
<p>PPs Submission: Complied</p> <p>Not applicable as Ductile Iron pipe unit is surrendered. In order to comply with the subject point, company has obtained Standard TOR accorded by Ministry vide ToR Identification No. TO23A1001WB 5596583E issued vide File No. - IA-J-11011/56/2017-IA-II (IND-I) dated 01.05.2023 for expansion project. At time of obtaining EC for expansion project the said point will be amended.</p>		Date: 29/05/2024
18	WASTE MANAGEMENT	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.
<p>PPs Submission: Being Complied</p> <p>Electronic wastes will be collected and given to authorized recyclers/ refurbished. Management of e-waste shall be done in line with the E-Waste (Management) Rules, 2022 and further amendments. In the FY 2023-24, 450.0 kg of 'EETW4' Categories of e-waste has been handed over to M/s Hulladek Recycling Pvt. Ltd. (CPCB authorization PRO no. 29016(12)/(PRO)/18/WM-III Division).</p>		Date: 29/05/2024
19	AIR QUALITY MONITORING AND PRESERVATION	The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.
<p>PPs Submission: Being Complied</p> <p>Consent obtained for 2 x 350 + 2 x 500 TPD DRI along with WHRB based CPP 60 MW dated on 17.10.2023. Waste gases generated from DRI are oxide of carbon which is utilizing in WHRB Boiler for power generation. The flue gas generated from balance EC accorded project i.e. Blast Furnace, Coke Oven Plant, Sinter, DRI; Lime & Dolo Plant will be utilized in various units like in BF, Sinter, Coke Oven Plant, Ferro Plant, power generation etc up to extent possible as proposed in EIA/EMP report. Plantation is a suitable method to sequester carbon and 33.24% of the plant area shall be developed under greenbelt. Details of Carbon Sequestration is submitted to IRO, MoEF&CC vide letter no. OMIPL/ENV COMPL/JUNE 2023 dated 25.05.2023.</p>		Date: 29/05/2024
20	WASTE MANAGEMENT	Rejects from coal washery shall only be used either in the captive power plant (or) in the Thermal Power Plants meeting emission standards.
<p>PPs Submission: Agreed to Comply</p> <p>Coal washery plant has not been implemented yet. Reject from coal washery will be used in (Coal & Dolochar Mix) based CPP. Company has obtained the Environment clearance vide EC Identification no.-EC22A008WB158432 issued vide File No- IA-J-11011/56/2017-IAII (I) dated 11.10.2022. As per ministry O.M. vide File No. 1A3-22/28/2022-IA.111 [E181584] dated 13.12.2022, the validity of the environment clearance is 10 years from the date of grant of EC. As the validity of the EC has not expired, the coal washery will be implemented in a phase manner. In order to develop proper land use planning and utilise the land effectively and implement the project cost effective, company has proposed for 'Expansion of EC accorded project' by addition of some facilities and change in configuration of some of the EC accorded facilities and capacity enhancement by raw material change. In this connection, under the provisions of the EIA Notification 2006 as amended, the Standard TOR accorded by Ministry vide ToR Identification No. TO23A1001WB 5596583E issued vide File No. - IA-J-11011/56/2017-IA-II (IND-I) dated 01.05.2023.</p>		Date: 29/05/2024
21	WASTE MANAGEMENT	Solid waste utilization: c. Used refractories shall be recycled as far as possible.

<p>PPs Submission: Agreed to Comply</p> <p>Refractories have been installed in operational DRI i.e. 2 x 500 TPD + 2 x 350 TPD DRI kiln for which consent to operate obtained from West Bengal Pollution Control Board vide CTO no.- C0144053 dated 17.10.2023. The life of the refractories is 02 years (on and average). The used refractories after its life span will be used in cement plant of the associate company of the Group.</p>		<p>Date: 29/05/2024</p>
22	<p>AIR QUALITY MONITORING AND PRESERVATION</p>	<p>EAF shall be closed type and fourth hole extraction system shall be included for fume control from these furnaces.</p>
<p>PPs Submission: Agreed to Comply</p> <p>The said point is 'Not applicable', as in the EC accorded by ministry vide EC Identification no- EC22A008WB 158432 issued vide File No- IA-J-11011/56/2017-IAII (I) dated 11.10.2022, no EAF has been proposed.</p>		<p>Date: 29/05/2024</p>
23	<p>ENERGY PRESERVATION MEASURES</p>	<p>Recuperator shall be installed to recover heat from BF stove waste gas and used for stove gas reheating reducing requirement of fuel gas.</p>
<p>PPs Submission: Agreed to Comply</p> <p>Blast furnace has not been implemented yet. Recuperator will be installed to recover heat from BF stove waste gas. The said condition will be taken care of at the time of finalizing the plant/process design. Currently, company has decided to manufacture steel from DRI-SMS route, so 2 x 500 TPD + 2 x 350 TPD DRI plant is commissioned and SMS & Rolling mill under construction phase. As stated in point no.-i, the validity of the EC is not expired the EC accorded BF will be implemented in phase manner.</p>		<p>Date: 29/05/2024</p>
24	<p>Human Health Environment</p>	<p>The coal dust to be measured at coal handling areas, ball mills, furnace charging areas through personal and area monitoring and to be compared and it should be within 2 mg/m³, respirable dust fraction containing less than 5% quartz as per Indian Factories Act, 1948.</p>
<p>PPs Submission: Being Complied</p> <p>TSPM monitored at the coal crusher area by third party monitoring agency M/s Indicative Consultant India, Haldia which is NABL accredited laboratory carried in month of Dec.-2023 and report is submitted to Sub-Regional Office of the ministry, Kolkata vide letter no. OMIPL/ATR/23-24/ADSREPLY/02 dated 09.03.2024. Copy of the TSPM monitoring report is uploaded.</p>		<p>Date: 29/05/2024</p>
25	<p>WATER QUALITY MONITORING AND PRESERVATION</p>	<p>Cold Rolling Mill (CRM), color coating and galvanizing plants shall have CETP to treat and recycle the treated water from CRM complex. Sludge generated at CRM ETP shall be sent to TSDF. Acid recovery plant shall be provided in CRM.</p>
<p>PPs Submission: Agreed to Comply</p> <p>Agreed and will be complied once the project comes in operation. The project is still in construction phase. As stated in point no.-i, the validity of the EC is not expired. Cold Rolling Mill (CRM), colour coating and galvanizing plants yet not implemented and will be installed in phase manner as per market demand. In parallel with implementation of the project acid recovery plant will be installed and CETP will also be installed to treat waste water and recycle treated water.</p>		<p>Date: 29/05/2024</p>
26	<p>WATER QUALITY MONITORING AND PRESERVATION</p>	<p>All stockyards shall be having impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains to trap the run off material.</p>
<p>PPs Submission: Agreed to Comply</p> <p>Project is still in construction phase and only 2 x 500 TPD + 2 x 350 TPD DRI plant is under operation. As on April 2024, impervious flooring with water spraying system is in place in DRI plant area. Temporary Garland drain is constructed and connected to pit.</p>		<p>Date: 29/05/2024</p>

27	AIR QUALITY MONITORING AND PRESERVATION	Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Regional Office of the MoEF&CC.
<p>PPs Submission: Agreed to Comply</p> <p>Currently 2 x 500 TPD + 2 x 350 TPD DRI kiln plant is in operational phase after obtaining consent to operate permission from West Bengal Pollution Control Board vide CTO no.- C0-144053 dated 17.10.2023 and balance EC accorded in under construction stage in phase manner. In order to ensure that emission norms are within the stipulated EC/ CTO norms of 30 mg/Nm³, online continuous emission monitoring system for particulate matter as per CPCB norms is installed and data is being transferred to CPCB/ WBPCB server. Also third part monitoring of the stack from NABL accredited laboratory is carried on November 2023 and as per the report the values are within the permissible limit. Also as stated in EMP plan and Condition xiv of EC dated 11.10.2022, 'Performance test to be conducted on all pollution control systems every year'. As the operational plant is set up on 17.10.2023, the detail performance test shall be carried before 16.10.2024 and the report will be submitted to Regional Office of the MoEF&CC with six monthly EC compliance report. CEMS data and latest stack emission report carried by NABL accredited laboratory on 04.11.2023 is uploaded.</p>		Date: 29/05/2024
28	WATER QUALITY MONITORING AND PRESERVATION	The proposed project shall be designed as "Zero Liquid Discharge" Plant. There shall be no discharge of effluent from the plant. Domestic waste water will be treated in STP and treated water shall be re-used for greenbelt development and plantation and dust suppression.
<p>PPs Submission: Being Complied</p> <p>Project is still in construction phase and only 2 x 500 TPD + 2 x 350 TPD DRI plant is under operation. The plant is being designed as zero liquid discharge (ZLD). Treated domestic wastewater will be used for greenbelt development and dust suppression.</p>		Date: 29/05/2024
29	Corporate Environmental Responsibility	The project proponent shall undertake village adoption and develop a robust action plan to develop the villages in model villages.
<p>PPs Submission: Being Complied</p> <p>Company has adopted 10 nos. of villages –Chandipur, Dhekia, Bhawanipur, Krishnanagar, Mahespur, Naryanpur, Radhanagar, Khosalchak, Latipur and Nandarchak situated at a distance of around 3.0 km from plant boundary and has started developing the facilities within the villages as per need base assessment carried out during EIA study.</p>		Date: 29/05/2024
30	AIR QUALITY MONITORING AND PRESERVATION	Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere. The PP to this affect shall implement a time line action Plan.
<p>PPs Submission: Being Complied</p> <p>For control of fugitive emission following initiatives have been/will be adopted by the management of OMIPL: a) Dedicated 02 No water spraying tankers are in use. 01 No. more will be procured and used for the suppression of fugitive emission. b) Dedicated 02 no. street swiping machine also in use in plant. Additional 02 nos. will be used. c) Dedicated 01 no movable Water mist fog system is in use. Additional 02 nos. will be used for suppressing fugitive dust emission. d) Water spraying at construction site to reduce fugitive emission. Water sprinkler/ water guns at potential emission sources (Dust prone area), internal road will be installed for effectively controlling the fugitive emission. e) Use of adequate quantity of mechanized machine for cleaning of plant area & internal drain like bobcats, motorized grader, mini floor cleaning/ scrubber machine, mini excavators & mini clamshell. f) Speed of the vehicles regulated (20 km/hr) to control the fugitive dust emission from the roads. g) Dedicate manpower/staff for maintaining effective housekeeping and cleaning. h) Significant plantation and green belt development to mitigate the impact of fugitive dust on ambient air.</p>		Date: 29/05/2024
31	AIR QUALITY MONITORING AND	The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses),

	PRESERVATION	electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.
<p>PPs Submission: Being Complied Good housekeeping being practiced. Action taken proposed by company for maintaining housekeeping and controlling emission are: a) Dedicated 02 No water spraying tankers are in use. Additional 01 No. more will be procured and used. b) Dedicated 02 nos. street swiping machine also in use in plant. Additional 02 nos. will be used. c) Dedicated 01 no Water mist fog system is in use in construction phase. Additional 02 nos. will be used. d) Water spraying at construction site to reduce fugitive emission. Water sprinkler/ water guns at potential emission sources (Dust prone area) will be installed to reduce fugitive emission. e) Concreting of internal road with proper drainage system to reduce vehicular emission in parallel with implementation of project. f) Ensuring trucks movement for transporting raw materials & solid waste in fully covered way to avoid dust pollution. g) Dedicated truck parking facility. h) Green belt with density of 2500 per hectare along and around boundary of the site to be developed as per CPCB guideline in a time bound manner. Land use based APCD (Bag filters, ID Fan, pneumatic APC dust handling system and stack of adequate height) at potential secondary emission sources like- transfer points, intermediate storage, silo and crushing/ grinding operations is/ will be installed to keep emission within 30 mg/Nm3.</p>		Date: 29/05/2024
32	GREENBELT	Three tier Green Belt shall be developed in a time frame of one year with native species all along the periphery of the project site of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.
<p>PPs Submission: Being Complied As per EC dated 11.10.2022 1,22,750 nos. saplings to be planted on land measuring 49.10 hectares (33.24% of total project area) @ 2,500 trees per hectare in two years (02) i.e. by 10.10.2024 . Company has engaged IIT Kharagpur, West Bengal for providing technical support. Plantation along the boundary is being carried by 'MIYAWAKI' method. 1,00,700 numbers of trees had been planted till March 2024 and the survival rate is 90.0%. Remaining greenbelt (22,050 nos. of tree sapling) shall be planted on or before 10.10.2024. Latest Green Belt Development Detail: a) Total Seedling/ Plantation (Nos.)-1,00,700 nos. till 31st March 2024. b) Total Area Covered (Ha)-40.28 ha. c) Greenbelt yet to be developed (Ha)-8.82 ha. Green belt development with photograph detail is uploaded.</p>		Date: 29/05/2024
33	MISCELLANEOUS	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.
<p>PPs Submission: Being Complied Greening and Paving being done in parallel with implementation of the project. Green belt development with photograph detail is uploaded.</p>		Date: 29/05/2024
34	MISCELLANEOUS	All internal road and connecting road from project site to main highway shall be developed and maintained with suitable Million Axle Standard (MSA) as per the traffic load due to existing and proposed project. All plant roads shall be paved and industrial vacuum cleaners shall be used to clean the roads regularly.
<p>PPs Submission: Agreed to Comply Project is still in construction phase and only 2 x 500 TPD + 2 x 350 TPD DRI plant is under operation. Plant internal roads are being developed in parallel with implementation of the project and</p>		Date: 29/05/2024

<p>an industrial vacuum cleaner/swipper machine is being used to clean the roads regularly. To maintain designed MSA of Zilla Parishad Road, following measures are adopted: 1. Maintenance/repairing of the road is done in consultation with local authority. 2. Overloading of the vehicle that exceeds the maximum permissible limit is strictly prohibited. 3. Use of dedicated road corridor for transportation of material from railway siding of the group to the plant site.</p>		
35	ENERGY PRESERVATION MEASURES	Sinter Plant shall be equipped with Sinter cooler waste recovery system and suitable technology for control of dioxins and furans emissions from the plant.
<p>PPs Submission: Agreed to Comply Sinter plant has not been implemented yet. Agreed and will be complied once the project comes in operation. As stated in point no.-i, the validity of the EC is not expired the EC accorded sinter plant will be implemented in parallel with the implementation of blast furnace in phase manner.</p>		Date: 29/05/2024
36	PUBLIC HEARING	All the commitments made to the public during the Public Hearing/Public Consultation shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.
<p>PPs Submission: Being Complied In FY 2023-24 under the head of CSR/CER is Rs. 1,52,30,987.0 spent under CER to full fill all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee. As mentioned earlier in point no. xxxi under Specific Conditions, Company has adapted 10 nos. of villages –Chandipur, Dhekia, Bhawanipur, Krishnanagar, Mahespur, Naryanpur, Radhanagar, Khosalchak, Latibpur and Nandarchak and will develop the facilities within the villages as per need base assessment.</p>		Date: 29/05/2024
37	WASTE MANAGEMENT	The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at https://cpcb.nic.in/technical-guidelines-3/ . All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents.
<p>PPs Submission: Being Complied Single use plastic is banned & Posters & painting for use of Eco friendly Carry Bag has been displayed at various prominent areas for awareness of our employees, vendors & local people.</p>		Date: 29/05/2024
38	WATER QUALITY MONITORING AND PRESERVATION	There are two nos. of Ponds in the vicinity of the Project, so the PP shall ensure that the quality and pond profiles are not disturbed and shall implement a Pond conservation plan.
<p>PPs Submission: Being Complied 02 nos. ponds are developed as rain water harvesting pond and water is stored and used for dust suppression & green belt development.</p>		Date: 29/05/2024

General Conditions

Sr.No.	Condition Type	Condition Details
1	AIR QUALITY MONITORING AND PRESERVATION	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 06 Nos. Continuous Ambient Air Quality Station (CAAQS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
<p>PPs Submission: Being Complied</p> <p>After taking into consideration the interest and financial share cost from associate company of the Group, for monitoring the Ambient Air quality around industrial units of the Group, 04 nos. Continuous Ambient Air Quality Monitoring Station (USEPA/ MCERT approved) is installed covering upwind, downwind and crosswind directions after getting site approval from WBPCB and data is transferred to SPCB & CPCB server. Another 02 no. CAAQMS will be installed by OMIPL after getting site approval from WBPCB. CAAQMS reports for the period of October 2023 to March 2024 are attached. Ambient air monitored at the four locations viz., Near Plant Main Gate, Narayanpur Village, Benasole Village & Ghorachalk Village by third party monitoring agency Qualissure Laboratory Services, Kolkata which is NABL accredited laboratory. Latest Ambient Air Quality Monitoring Analysis reports carried by NABL/MoEF accredited lab are attached. OCEMS connected with the stack of DRI kiln have been connected to CPCB server and data is being transferred. Copy of the OCEMS report is already uploaded.</p>		Date: 29/05/2024
2	AIR QUALITY MONITORING AND PRESERVATION	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
<p>PPs Submission: Being Complied</p> <p>Dedicated 02 Nos. water spraying tankers are in use in construction phase. 01 No. more will be procured and will be used. Dedicated 01 no. movable Water mist fog system in use. 01 no fixed water sprinkler is also installed. Additional 02 nos. will be used. Dedicated 02 nos. street swiping machine also in use in plant. Additional 02 nos. will be used. Water spraying at construction site to reduce fugitive emission. Water sprinkler/ water guns at potential emission sources (Dust prone area) will be installed to reduce fugitive emission. Dedicated manpower/staff for maintaining effective housekeeping and cleaning.</p>		Date: 29/05/2024
3	AIR QUALITY MONITORING AND PRESERVATION	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
<p>PPs Submission: Being Complied</p> <p>Fugitive Emissions have been monitored in quarterly basis by NABL accredited laboratory. In December 2023 at the eight locations viz., DRI 1 & 2; CPP Area; DRI 3 & 4; Truck Parking Area; Construction Site of SMS; Water reservoir; Construction of DRI and Construction of Railway Siding by third party monitoring agency Greenvision, Durgapur which is NABL accredited laboratory. As per monitoring reports emission levels are as within limit: Again in March-2024 at the eight locations viz., DRI 1 & 2; CPP Area; DRI 3 & 4; Truck Parking Area; Construction Site of SMS; Water reservoir; Construction of DRI and Construction of Railway Siding by third party monitoring agency Qualissure Laboratory Services, Kolkata which is NABL accredited laboratory. Fugitive Emissions monitoring report of Dec 2023 & March 2024 is uploaded.</p>		Date: 29/05/2024
4	AIR QUALITY MONITORING AND PRESERVATION	Facilities for spillage collection shall be provided for coal and coke on wharf of coke oven batteries (Chain conveyors, land based industrial vacuum cleaning facility).

<p>PPs Submission: Agreed to Comply Coke oven plant civil foundation work and structure erection going on and will be implemented in phase manner. During the construction/commissioning phase of coke oven plant facilities for spillage collection for coal and coke on wharf of coke oven batteries will be provided.</p>		<p>Date: 29/05/2024</p>
5	<p>AIR QUALITY MONITORING AND PRESERVATION</p>	<p>Monitor CO, HC and O2 in flue gases of the coke oven battery to detect combustion efficiency and cross leakages in the combustion chamber.</p>
<p>PPs Submission: Agreed to Comply Coke oven plant civil foundation works and structure erection going on and will be implemented in phase manner. Post successful completion of the project CO, HC and O₂ in flue gases of the coke oven will be monitored to detect combustion efficiency.</p>		<p>Date: 29/05/2024</p>
6	<p>AIR QUALITY MONITORING AND PRESERVATION</p>	<p>Vapor absorption system shall be provided in place of vapour compression system for cooling of coke oven gas in case of recovery type coke ovens.</p>
<p>PPs Submission: Agreed to Comply The EC accorded coke oven plant is a non-recovery type coke oven plant. The said point is 'Not Applicable'.</p>		<p>Date: 29/05/2024</p>
7	<p>AIR QUALITY MONITORING AND PRESERVATION</p>	<p>Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.</p>
<p>PPs Submission: Being Complied The project is still under construction phase. Currently the raw material stock are stored in covered shed and also covered with industrial grade taruplin and water is sprayed by movable water mist fog cannon system on raw material. Construction of wind barrier of height 20 ft. along boundary wall will be done in parallel with implementation of the project in phase manner.</p>		<p>Date: 29/05/2024</p>
8	<p>WATER QUALITY MONITORING AND PRESERVATION</p>	<p>Water meters shall be provided at the inlet to all unit processes in the steel plants.</p>
<p>PPs Submission: Being Complied Water meters installed at the intake well of the surface water.</p>		<p>Date: 29/05/2024</p>
9	<p>WASTE MANAGEMENT</p>	<p>100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.</p>
<p>PPs Submission: Agreed to Comply Project is still under the construction phase and only 2 x 500 TPD + 2 x 350 TPD DRI plant is under operation. No Fly ash is being generated. Fly ash generated from CFBC boiler (yet to be implemented) will be 100% utilize for brick making and ACC block making. MOU for utilization of fly ash in cement plant of associate company (Rashmi Cement Limited (Cement Division), Jhargram & M/s Orissa Metallurgical Industry Private Limited, Cement (Formerly Bansal Cement Pvt. Ltd). Kharagpur already made and submitted to ministry.</p>		<p>Date: 29/05/2024</p>
10	<p>WASTE MANAGEMENT</p>	<p>Kitchen waste shall be composted or converted to biogas for further use.</p>
<p>PPs Submission: Being Complied Kitchen waste are composted and use as manure for green belt development.</p>		<p>Date: 29/05/2024</p>

11	Risk Mitigation and Disaster Management	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
PPs Submission: Being Complied HIRA report and Disaster Management Plan have been prepared by NABET accredited consultant is already submitted to IRO, MoEF&CC vide letter no. OMIPL/ENV COMPL/JUNE 2023 dated 25.05.2023 and is implemented project wise.		Date: 29/05/2024
12	MISCELLANEOUS	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
PPs Submission: Being Complied A separate Environmental cell both at project and company head quarter is in place. The Framework of EHS is already submitted to IRO, MoEF&CC vide letter no. OMIPL/ENV COMPL/JUNE 2023 dated 25.05.2023.		Date: 29/05/2024
13	MISCELLANEOUS	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
PPs Submission: Complied Advertisement for expansion project environment clearance dated 11.10.2022 issued by MOEFCC in favour of Orissa Metallurgical Industry Pvt. Ltd. published in two local newspapers that are widely circulated in the region are: 1. Aajkal dated 13.10.2022 (Bengali) 2. The Echo of India dated 13.10.2022 (English) Copies of latest advertisement are already submitted to IRO, MoEF&CC vide letter no. OMIPL/ENV COMPL/JUNE 2023 dated 25.05.2023. Advertisement for environmental conditions and safeguards published in two local newspapers [Aajkal dated 26.01.2024 (Bengali) & The Echo of India dated 26.01.2024 (English)] that are widely circulated in the region and copies of advertisement submitted with Action Taken Report to Sub-Regional Office of the ministry, Kolkata vide letter no. OMIPL/ATR/23-24/ADSREPLY/02 dated 09.03.2024.		Date: 29/05/2024
14	Statutory compliance	The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.
PPs Submission: Agreed to Comply Agreed and Noted.		Date: 29/05/2024
15	AIR QUALITY MONITORING AND PRESERVATION	Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions.
PPs Submission: Being Complied The project is still in construction phase. Only 2 x 350 + 2 x 500 TPD DRI along with WHRB based CPP 60 MW is in operation after obtaining valid CTO from WBPCB. Sampling facility has been provided at process stack of DRI and will be provided at process stack and at quenching tower, other proposed stacks as per CPCB guidelines.		Date: 29/05/2024
16	AIR QUALITY	Recycle and reuse iron ore fines, coal and coke fines, lime fines and

	MONITORING AND PRESERVATION	such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/agglomeration.
<p>PPs Submission: Being Complied Dolochar from operational DRI- 1,50,000 TPA used in associated Company Power Plant. ESP dust & Kiln accretion -1,00,000 TPA used for road construction. Fines/dust collected from APC and vacuum cleaning devices of under construction project will be handled as per EIA/EMP plan submitted while getting EC.</p>		Date: 29/05/2024
17	AIR QUALITY MONITORING AND PRESERVATION	The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
<p>PPs Submission: Being Complied Project proponent will follow necessary precautionary step to control emission during transportation/movement of vehicles. Trucks movement for transporting in fully covered way to avoid dust pollution. Speed of the vehicles to be regulated (20 km/hr) to control the fugitive dust emission from the roads.</p>		Date: 29/05/2024
18	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31st March 2012 (Integrated iron & Steel); G.S.R 414 (E) dated 30th May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
<p>PPs Submission: Being Complied Project is still under the construction phase and plant is being designed as Zero Liquid Discharge Plant and 100% water is/will be treated and recycled for dust suppression & green belt development. Currently 50 KLD STP is installed to treat domestic water and primary ETP plant for operational DRI plant. As per CPCB guideline ZLD units are required to install web camera at the potential disposal points. In this connection web camera are installed to monitor the same.</p>		Date: 29/05/2024
19	ENERGY PRESERVATION MEASURES	Provide LED lights in their offices and residential areas.
<p>PPs Submission: Being Complied Agreed and being complied.</p>		Date: 29/05/2024
20	ENERGY PRESERVATION MEASURES	Ensure installation of regenerative/recuperative type burners on all reheating furnaces.
<p>PPs Submission: Agreed to Comply Agreed and will be complied with during project implementation stage. Direct hot charging of M.S. billet from SMS to rolling mill is planned, so according SMS & Rolling mill is being constructed simultaneously. As on date no reheating furnaces are installed and if installed in future, regenerative/recuperative type burners on all reheating furnaces will be installed.</p>		Date: 29/05/2024
21	Human Health Environment	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.
<p>PPs Submission: Being Complied Proper PPE's provided for the worker. Without proper PPEs no one is allowed to work inside the plant premises. Safety awareness campaigns organised inside the plant premises with the objective</p>		Date: 29/05/2024

of demonstrating the use of PPEs in different work zone and explaining the benefit of using PPEs. Copy of heat stress analysis report conducted by Indicative Consultant India is uploaded.		
22	Corporate Environmental Responsibility	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.
PPs Submission: Being Complied In FY 2023-24 under the head of CSR/CER Rs. 1,52,30,987.0 is spent under CER to full fill all the commitments.		Date: 29/05/2024
23	AIR QUALITY MONITORING AND PRESERVATION	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.
PPs Submission: Being Complied The EC accorded project is still under construction phase. For the implemented project proper ventilation systems has been provided in the tunnels and pump houses, control room etc. for adequate air exchange.		Date: 29/05/2024
24	MISCELLANEOUS	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
PPs Submission: Being Complied The environmental clearance and status of compliance of the stipulated environment clearance conditions, including results of monitored data uploaded and updated on regular basis on the website of the company http://orissametaliks.com/qehs.html		Date: 29/05/2024
25	Statutory compliance	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.
PPs Submission: Agreed to Comply Agreed and noted.		Date: 29/05/2024
26	MISCELLANEOUS	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
PPs Submission: Being Complied In compliance to this point, TOR obtained from MoEFCC for expansion of Integrated Steel Plant from 2.0 million TPA with 385 MW CPP to Integrated Steel Plant of capacity 4.2 million TPA (Finished Steel) along with 536 MW Captive Power Plant by M/s. Orissa Metallurgical Industry Pvt. Ltd., having ToR Identification No. TO23A1001WB5596583E issued vide file no. IA-J-11011/56/2017-IA-II (IND-I) dated 01.05.2023 by ministry.		Date: 29/05/2024
27	MISCELLANEOUS	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.

<p>PPs Submission: Complied Copies of EC dated 11.10.2022 w.r.t EC obtained in favour of Orissa Metallurgical Industry Pvt. Ltd. submitted to DM, Paschim Medinipur & Kalaikunda Gram Panchayat vide letter dated 13.10.2022 and mail dated 13.10.2022. Intimation letters are already submitted to IRO, MoEF&CC vide letter no-OMIPL/ENV COMPL/JUNE 2023 dated 25.05.2023.</p>		<p>Date: 29/05/2024</p>
28	MISCELLANEOUS	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
<p>PPs Submission: Being Complied The company is a private company and no finance is needed from outside. Land development work has been started after getting NOC from WBPCB.</p>		<p>Date: 29/05/2024</p>
29	Statutory compliance	The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.
<p>PPs Submission: Agreed to Comply Agreed and noted.</p>		<p>Date: 29/05/2024</p>
30	Statutory compliance	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
<p>PPs Submission: Agreed to Comply Agreed and Noted.</p>		<p>Date: 29/05/2024</p>
31	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall monitor regularly ground water quality at least twice a year (pre and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.
<p>PPs Submission: Being Complied Monitoring of ground water quality carried by M/s Qualissure laboratory Services, Kolkata (NABL accredited lab.) in March 2024 at Kantapal Village, Mathura Kismat Village, Latibpur Village & Risha Village. It is observed that the ground water samples showed no alarming levels of pollutant concentration and all the samples were conforming to the prescribed drinking water standard (IS 10500:2012). The ground water analysis report is uploaded.</p>		<p>Date: 29/05/2024</p>
32	WATER QUALITY MONITORING AND PRESERVATION	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.
<p>PPs Submission: Being Complied The project is still under construction phase. Garland drains are provided along the raw material stock yard.</p>		<p>Date: 29/05/2024</p>
33	WATER QUALITY MONITORING AND PRESERVATION	Tyre washing facilities shall be provided at the entrance of the plant gates.

<p>PPs Submission: Agreed to Comply Project is still under the construction phase and the tyre washing facilities is under construction phase at the entrance of the plant gates and will be constructed by October 2024.</p>		<p>Date: 29/05/2024</p>
34	ENERGY PRESERVATION MEASURES	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;
<p>PPs Submission: Being Complied Project is still under the construction phase. Solar street light is provided at potential area i.e. in DRI Plant internal road, near HR & Admin office (common area); Hutment area (STP-site), Construction site of SMS unit. In phase wise more solar light will be installed in parallel with implementation of the project.</p>		<p>Date: 29/05/2024</p>
35	WASTE MANAGEMENT	An attrition grinding unit to improve the bulk density of BF granulated slag from 1.0 to 1.5 Kg/l shall be installed to use slag as river sand in construction industry.
<p>PPs Submission: Agreed to Comply Blast furnace is still not implemented. Post implementation of the BF, the slag generated will be used for making cement in associate company cement grinding plant of the Group.</p>		<p>Date: 29/05/2024</p>
36	WASTE MANAGEMENT	Used refractories shall be recycled as far as possible.
<p>PPs Submission: Agreed to Comply Refractories have been installed in operational DRI i.e. 2 x 500 TPD + 2 x 350 TPD DRI kiln for which consent to operate obtained from West Bengal Pollution Control Board vide CTO no. C0144053 dated 17.10.2023. The life of the refractories is 02 years (average). The used refractories after its life span will be used in cement plant of the associate company of the Group.</p>		<p>Date: 29/05/2024</p>
37	WASTE MANAGEMENT	Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil. Oil collection trays shall be provided under coils on saddles in cold rolled coil storage area.
<p>PPs Submission: Agreed to Comply Rolling mill is still under construction phase and in design phase of the rolling mill the said point is taken into consideration. Oil collection pits will be provided in oil cellars to collect and reuse/recycle spilled oil.</p>		<p>Date: 29/05/2024</p>
38	GREENBELT	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.
<p>PPs Submission: Complied GHG emissions inventory has already been prepared by the NABET accredited consultant Centre for Envotech and Management Consultancy Pvt. Ltd., Bhubaneswar during EIA study of proposed Expansion of Integrated Steel Plant (1.0 Million TPA To 2.0 Million TPA Finished Steel) With 385 MW Captive Power Plant. Copy of the GHG emissions inventory is already submitted to IRO, MoEF&CC vide letter no. OMIPL/ENV COMPL/JUNE 2023 dated 25.05.2023.</p>		<p>Date: 29/05/2024</p>
39	Human Health Environment	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.
<p>PPs Submission: Being Complied The occupational health surveillance of the workers employed during operation & construction phase has been done and records are maintained as per the Factories Act. X-ray, audiometry test and blood test has been conducted for the workers employed during operation & construction phase and the report is submitted with Action Taken Report to Sub-Regional Office of the ministry, Kolkata vide letter no. OMIPL/ATR/23-24/ADSREPLY/02 dated 09.03.2024. The OHS Record is attached.</p>		<p>Date: 29/05/2024</p>

40	MISCELLANEOUS	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
<p>PPs Submission: Being Complied The company shall have a well laid down environmental policy duly approved by the board of directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/ violation of the environmental/ forest/wildlife norms/ conditions. The company shall have defined system of reporting infringements/ deviation/violation of the environmental/forest/ wildlife norms/ conditions and / or shareholders/stake holders. EHS policy is already submitted to IRO, MoEF&CC vide letter no. OMIPL/ENV COMPL/JUNE 2023 dated 25.05.2023.</p>		Date: 29/05/2024
41	MISCELLANEOUS	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
<p>PPs Submission: Being Complied Agreed and being complied.</p>		Date: 29/05/2024
42	MISCELLANEOUS	The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.
<p>PPs Submission: Being Complied Expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report is submitted with Six monthly EC compliance report and is uploaded on companies' website https://orissametaliks.com/qehs.php.</p>		Date: 29/05/2024
43	WATER QUALITY MONITORING AND PRESERVATION	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
<p>PPs Submission: Being Complied Domestic waste water treated in STP (50 KLD). After treatment it is reused for dust suppression and green belt development.</p>		Date: 29/05/2024
44	Noise Monitoring & Prevention	Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
<p>PPs Submission: Being Complied The ambient noise monitoring carried in month of January 2024 by third party monitoring agency M/s. Indicative Consultant India, Haldia accredited laboratory and report has been submitted with the Action Taken Report to Sub-Regional Office of the ministry, Kolkata vide letter no. OMIPL/ATR/23-24/ADSREPLY/02 dated 09.03.2024. Again, Noise level has been monitored at</p>		Date: 29/05/2024

ambient & work zone i.e., DRI & CPP Area, Truck Parking Area, Construction Site of SMS and Rolling Mill, Construction Site of DRI; Narayanpur Village, Gokulpur Village & Panchrulia Village by third party monitoring agency Qualissure Laboratory Services, Kolkata which is a NABL accredited laboratory. Ambient Noise & Source Noise Monitoring Reports are attached.		
45	ENERGY PRESERVATION MEASURES	Use torpedo ladle for hot metal transfer as far as possible. If ladles not used, provide covers for open top ladles.
PPs Submission: Agreed to Comply Noted and will be complied with during project implementation stage. Only 2 x 500 TPD + 2 x 350 TPD DRI plant is under operation. No hot metal generation is there. Steel Melting Shop with matching CCM is under construction phase. Post implementation of the project Torpedo ladle/covered open top ladles will be used for hot metal transfer.		Date: 29/05/2024
46	ENERGY PRESERVATION MEASURES	Restrict Gas flaring to < 1%.
PPs Submission: Agreed to Comply Blast furnace is not yet implemented. The BF will be implemented in phase manner and BF gas will be used in pellet plant, Reheating furnace of rolling mill.		Date: 29/05/2024
47	WASTE MANAGEMENT	Carbon recovery plant to recover the elemental carbon present in GCP slurries for use in Sinter plant shall be installed.
PPs Submission: Agreed to Comply Blast furnace is still not implemented and will be implemented in phase manner. Dry gas cleaning plant (cyclone with bag filter) is proposed with BF gas for final cleaning the dust content below 5 mg/Nm ³ . The collected dust will be used for sintering.		Date: 29/05/2024
48	GREENBELT	Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames.
PPs Submission: Complied Reply to the subject condition is already stated in point no. ii under Specific Conditions.		Date: 29/05/2024
49	MISCELLANEOUS	The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
PPs Submission: Being Complied The criteria pollutants level namely; PM10, PM2.5, SO2, NOx (ambient levels as well as stack emissions) is monitored by third party monitoring agency which is NABL accredited laboratory and displayed at the plant main gate. Ambient data collected from CAAQMS is uploaded on the website of the company with six monthly EC compliance report https://orissametaliks.com/qehs.php .		Date: 29/05/2024
50	MISCELLANEOUS	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.

<p>PPs Submission: Being Complied The last Six monthly compliance reports for the period (April 2023 to September 2023) uploaded on parivesh portal on 30.11.2023 vide compliance ID -26096206.</p>		<p>Date: 29/05/2024</p>
51	MISCELLANEOUS	<p>The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.</p>
<p>PPs Submission: Agreed to Comply Agreed and noted for compliance. The project is still under construction phase. The first consent to operate for the project i.e. 2 x 500 TPD + 2 x 350 TPD DRI kiln for obtained from West Bengal Pollution Control Board vide CTO no. C0144053 dated 17.10.2023. The environmental statement for financial year 2023-2024 will be submitted in prescribed format to WBPCB on or before 30th September 2024 and copy of the same will be submitted to Regional Office of the MoEF&CC with six monthly EC compliance report.</p>		<p>Date: 29/05/2024</p>
52	Statutory compliance	<p>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, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.</p>
<p>PPs Submission: Agreed to Comply Agreed and Noted.</p>		<p>Date: 29/05/2024</p>
53	MISCELLANEOUS	<p>The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.</p>
<p>PPs Submission: Agreed to Comply Agreed and Noted.</p>		<p>Date: 29/05/2024</p>
54	AIR QUALITY MONITORING AND PRESERVATION	<p>Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.</p>
<p>PPs Submission: Being Complied The project is still in construction phase. Only 2 x 350 + 2 x 500 TPD DRI along with WHRB based CPP 60 MW is in operation after obtaining valid CTO from WBPCB. Appropriate APC system like ESP, Bag filters are installed with operational unit and will be provided for all the dust generating points including fugitive dust from all vulnerable sources for under construction project. Photographs of the APC system is already given in point no. xxxvi of Specific condition.</p>		<p>Date: 29/05/2024</p>
55	AIR QUALITY MONITORING AND PRESERVATION	<p>The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.</p>
<p>PPs Submission: Being Complied Leakage detection and mechanized bag cleaning facilities for better maintenance of bags are provided for operational units and will be provided for under construction project.</p>		<p>Date: 29/05/2024</p>

56	AIR QUALITY MONITORING AND PRESERVATION	Land-based APC system shall be installed to control coke pushing emissions.
<p>PPs Submission: Agreed to Comply Coke oven plant civil foundation works and structure erection going on and will be implemented in phase manner. During the design phase APC system (bag filter) to control coke pushing emissions is considered. Land-based APC system will be installed to control coke pushing emissions.</p>		<p>Date: 29/05/2024</p>
Visit Remarks		
Last Site Visit Report Date:	08/12/2023	
Additional Remarks:	Scan copy of Compliance Report for Period October 2023 to March 2024 has been uploaded for your kind consideration, please.	



TEST REPORT

Name & Address Of the Customer : M/s. Orissa Metallurgical Industry Pvt. Ltd. Mouza- Amba, Mathurakismat, Vill- Gokulpur, P.O- Shyamraipur, P.S- Kharagpur (L), Paschim Medinipur, West Bengal.	Report No.	: QLS/P-34/23-24/C/31
	Date	: 22.04.2024
	Sample No.	: QLS/P-34/23-24/C/31
	Sample Description	: Leachate
	Sample Location	: Dolochar
	Period Of Analysis	: 22.03.2024
	Sample Drawn On	: 26.03.2024-06.04.2024
	Ref No. Date	: M 124379552, Dated. 24.02.2024

Analysis Result

Sl. No.	Parameters	Test Method	Result	Limit as per Hazardous & Other waste (management and Transboundary Movement Rules) Schedule-2
1.	Zinc (as Zn) in mg/l	APHA 24th Edition-2023, 3111 B	0.96	250
2.	Lead (as Pb) in mg/l	APHA 24th Edition-2023, 3111 B	0.34	5.0
3.	Copper (as Cu) in mg/l	APHA 24th Edition-2023, 3111 B	0.47	25.0
4.	Cobalt (as Co) in mg/l	APHA 24th Edition-2023, 3111 B	0.21	80.0
5.	Nickel (as Ni) in mg/l	APHA 24th Edition-2023, 3111 B	0.76	20.0
6.	Arsenic (as As) in mg/l	APHA 24th Edition-2023, 3114 B	0.02	5.0
7.	Mercury (as Hg) in mg/l	APHA 24th Edition-2023, 3112 B	<0.001	0.2
8.	Total Chromium (as Cr) in mg/l	APHA 24th Edition-2023, 3111B Cr	0.33	5.0
9.	Manganese (as Mn) in mg/l	APHA 24th Edition-2023, 3111 B	1.13	10.0

Report Prepared By:

R. Sharma

for Qualissure Laboratory Services
Reviewed & Authorized By

Bishnupriya Banerjee, Chemist
(Authorized Signatory)

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

- The results relate only to the item(s) tested.
- This Test Report shall not be reproduced without the permission of Qualissure Laboratory Services
- The reserved part of sample(s). except perishable sample(s), shall be retained for 30 days from the date of issue of the Test Report

ONLINE CONTINUOUS EMISSION MONITORING SYSTEM

Close(X)

M/s.Orissa Metallurgical Industry Pvt. Ltd STACK_1_DRI 1 & 2 (2 x 350 TPD)_Orissa
Metallurgical_WB
P.O.-Shyamraipur,P.S.- Kharagpur (L),Dist-Paschim Medinipur,Pin-721301 Kharagpur West
Bengal 721301

Start Date - 2023-10-01

End Date - 2024-03-31

Average - daily

Select All

PM

Time Range

Use Date Range

Data Type

Good Data

START DATE

2023-10-01

END DATE

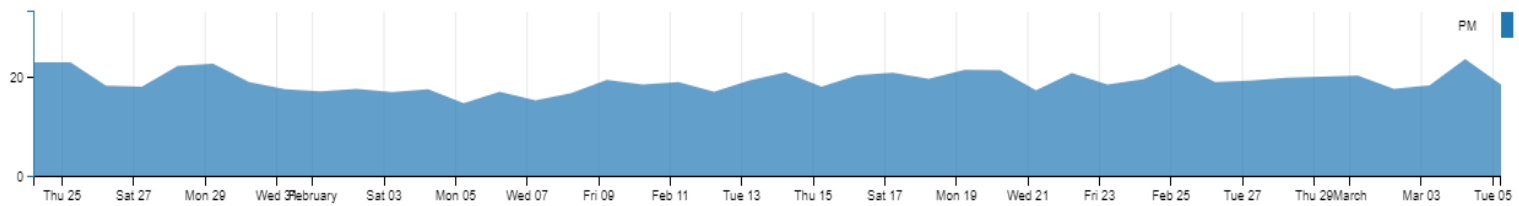
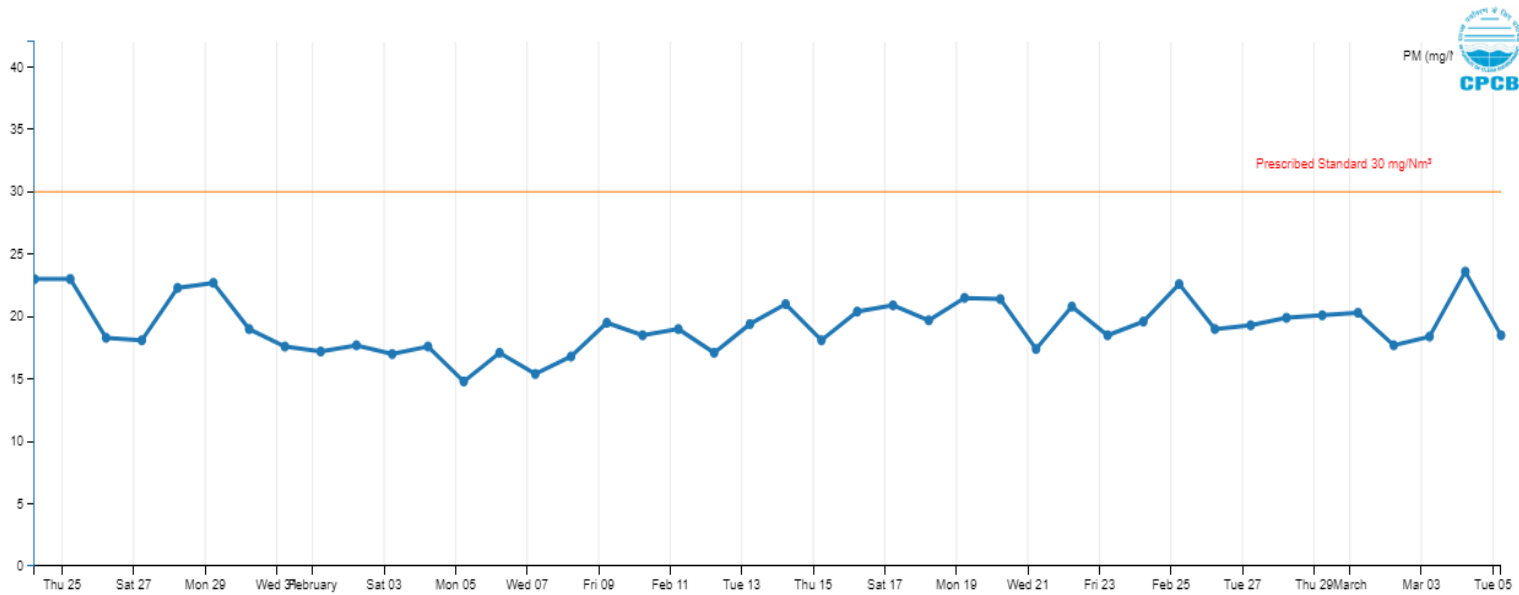
2024-03-31

Average Duration

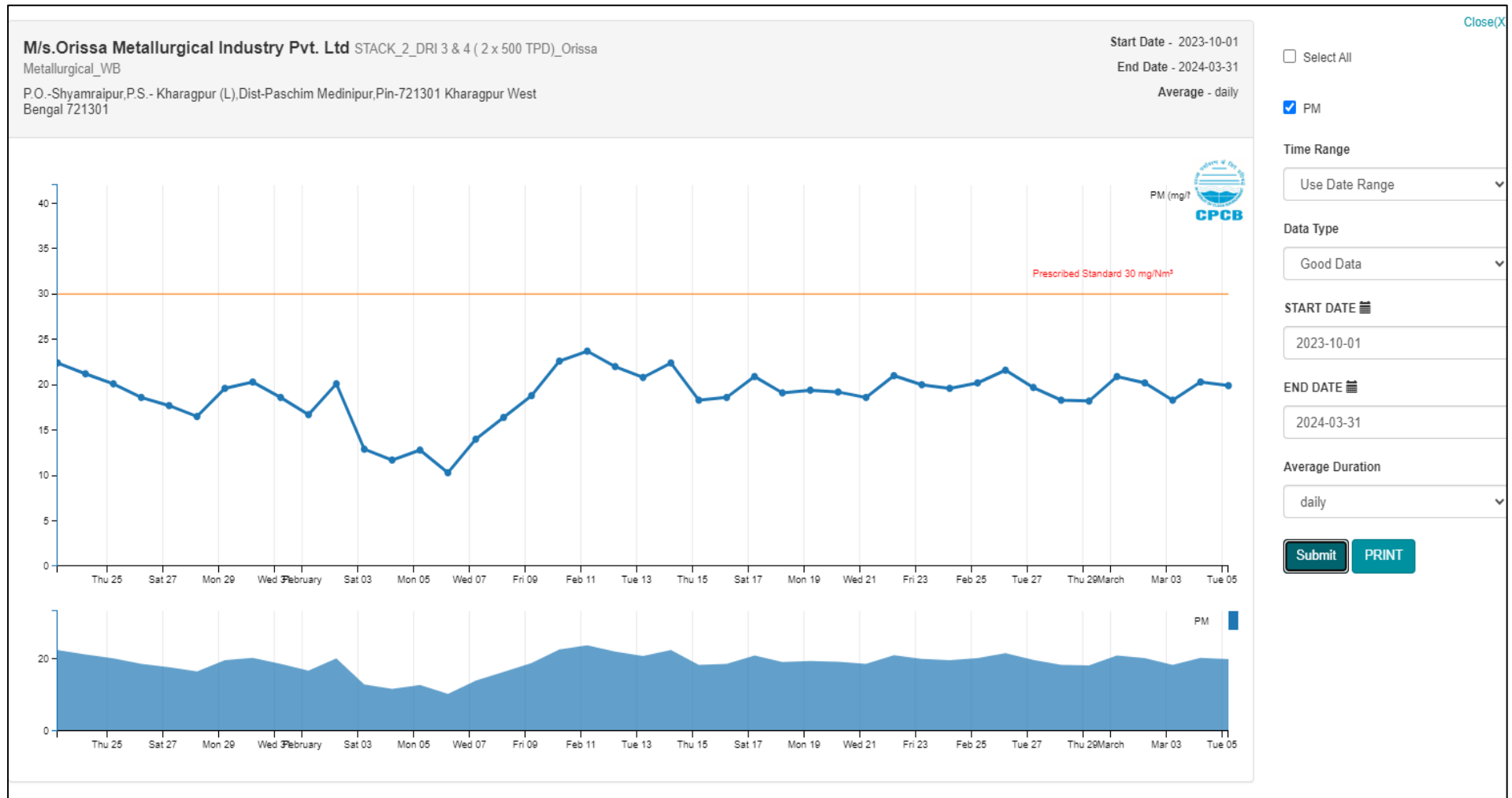
daily

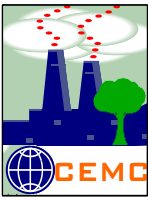
Submit

PRINT



ONLINE CONTINUOUS EMISSION MONITORING SYSTEM





CENTRE FOR ENVOTECH AND MANAGEMENT CONSULTANCY PVT. LTD.

ANNEXURE-III

An ISO 9001-2008 & OHSAS 18001:2007 Certified Company, Empanelled with OCCL, ORSAC and SPCB of Govt. of Odisha
Accredited by NABET, QCI for EIA Studies as 'A' Category Consultant Organization. Empanelled with PCCF(Wildlife) & CWLW, Odisha
Enlisted in Construction Industry Development Council (CIDC) established by the Planning Commission (Govt. of India)
MoEF&CC, Govt. of India, Recognised Environment Laboratory under Environment (Protection) Act, 1986. NABL Accredited Laboratory

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

STACK EMISSION REPORT

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

Authorized Signatory



Seal of Laboratory

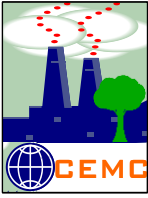
Notes:

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

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

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

Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101,
E-mail: cemclab@yahoo.in




CENTRE FOR ENVOTECH AND MANAGEMENT CONSULTANCY PVT. LTD.

An ISO 9001-2008 & OHSAS 18001:2007 Certified Company, Empanelled with OCCL, ORSAC and SPCB of Govt. of Odisha
Accredited by NABET, QCI for EIA Studies as 'A' Category Consultant Organization. Empanelled with PCCF(Wildlife) &CWLW,Odisha
Enlisted in Construction Industry Development Council (CIDC) established by the Planning Commission (Govt. of India)
MoEF&CC, Govt. of India, Recognised Environment Laboratory under Environment (Protection) Act, 1986.NABL Accredited Laboratory

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

STACK EMISSION REPORT

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


Authorized Signatory



Notes:

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

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

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

Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101,
E-mail: cemclab@yahoo.in

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

1	a) Name of the Project :	M/s. Orissa Metallurgical Industry Pvt. Ltd. – Expansion of Integrated Steel Plant (1.0 Million TPA To 2.0 Million TPA Finished Steel) With 385 MW Captive Power Plant by M/s. Orissa Metallurgical Industry Pvt. Ltd., located at Mouza – Amba, Mathurakismat, Ghoshalchak, Radhanagar, Serampurjia, Mollarchak, Katapole, Tarabamni And Dhularchak, Village –Gokulpur, P.O – Shyamraipur, P.S – Kharagpur (L) Dist. Paschim Medinipur, West Bengal			
	b) Environment Clearance Nos. :	E.C. No. – IA – 11011/56/2017-IA-II (I) dated : 11.10.2022			
2	Location, Block/ Sub. Div./ Dist./ State:	Mouza - Amba, Mathurakismat, Radhanagar & Srirampurjia, Village - Gokulpur, P.O. - Shyamraipur, P.S. – Kharagpur (L), District - Paschim Medinipur, West Bengal			
3	Address for communication :	1, Garstin Place, Orbit House, 3rd Floor, Room No - 3B, Kolkata - 700 001			
4	Existing Vegetation in the area/ region :		Vacant Land		
	a)	Species (trees/shrubs/grasses/climbers)			
	b)	Major prevalent species of each type			
5	Land Coverage by the project				
	a)	Total area under the project	147.71 Ha		
	b)	Area covered for basic infrastructure (roads/building/factory etc.)	Project is still in construction phase after obtaining valid NOC from WBPCB vide NOC no – 172028 dated 06.02.2023		
6	Details about natural vegetation		100 % Vacant 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	40.28 Ha (27.27%)		
7	Plantation required to be carried out as per				
	a)	Conditions of Environmental Clearance in ha./Nos.	49.10 Ha (33.24%)		
	b)	Conditions for forest act (c) Clearance in ha./Nos.	NA		
	c)	Voluntary in no. for green belt development in nearby area	3000 nos.		
8	Details of Plantation				
	a)	Plantation Details (Category wise & methodology used)	Year of Plantation	Quantity	
			Oct'23-Mar'24	16,810	
	b)	Survival of Plantation	FY: 2021-22	FY: 2022-23	FY: 2023-24
		Total seeding / Plantation (No.)	32,700	35,000	33,000
Survival Trees (No) as on date from date of EC		27,795	31,500	29,702	
	Survival	85%	90%	90%	
9	Agency carrying out plantation and maintenance	Our own horticulture department & third party			

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

10	Financial details (year wise) plantation wise and item wise	Sl. No.	Year	Funds allocated (Rupees)	Expenditure made including tree plantation cost (Rupees)
		1	2023- 2024	2,50,00,000	2,51,10,000



RECENT PHOTOGRAPH OF GREEN BELT

WORKZONE AIR MONITORING REPORT

for

M/s. Orissa Metallurgical Industry Pvt. Ltd.

**Mouza- Mathurakismat, Gokulpur
Kharagpur, Paschim Medinipur, PIN- 721301, W.B**

DECEMBER - 2023

PREPARED BY:

INDICATIVE CONSULTANT INDIA

H.P.L Link Road, Basudevpur, P.O.-Khanjanchak, Haldia,
Dist. - Purba Medinipur, PIN - 721 602

Website: www.indicativeconsultantindia.com



INDICATIVE CONSULTANT INDIA

Name of the Company	: M/s. ORISSA METALLURGICAL INDUSTRY PVT. LTD. Unit Address: Mouza: Mathurakismat, Gokulpur, Kharagpur, Dist.: Paschim Medinipur, Pin: 721301, W.B.
Date of Execution of Job	: 29.12.2023

1.0 Environment pollution is mostly the result of various human activities like industrial operation. Identification and quantification of air contaminants in the work zone area in accordance with the requirements of Factory Rules of the State under existing Factory Act is the first step towards control of the Work Zone Environment Pollution.

M/s. Indicative Consultant India have been asked to carry out the survey of the assessment of WORKZONE AIR MONITORING as per the provision of Factories Act, 1948 Accordingly, workzone monitoring has been conducted with the use of Static and Portable monitoring instruments.

One location was monitored and the entire field work was completed in 29.12.2023. Result of Work Zone air monitoring have been reported in Form No.30 as per 13B (2) of the Factories Rules of the State, in Table No. 1.



2

INDICATIVE CONSULTANT INDIA

2.0 DISCUSSION:

Result as indicated in Form No.30, which is annexed herewith, reveals the following facts.

- i) *Results of inorganic dust and gases are based on the exposure of 8 hrs. have been reported in terms of TWA (Time Weighted Average) and Air borne contaminants like inorganic dust and gases in the manufacturing area have been found to be within the Permissible Exposure Limit (PEL) at the measured location: COAL HANDLING AREA (Table 1)*

3.0 RECOMMENDATION:

- i) *No recommendation with respect to result of Workzone monitoring in Coal Handling Area*

4.0 ACKNOWLEDGEMENT:

- a) *Mr. Natabara Biswal (AGM- Environment & Pollution)*
- b) *Mr. Ram Kishore Verma (Manager- Environment & Pollution)*
- c) *All Staff of M/s. ORISSA METALLURGICAL INDUSTRY PVT. LTD., Mouza- Mathurakismat, Gokulpur, Kharagpur ,
Dist- West Medinipur, PIN-721301, W.B, India*
- d) *All Security Staff.*

We acknowledge our sincere thanks and gratitude to the above persons for their co-operation and help to our sampling team during the survey work.

For, INDICATIVE CONSULTANT INDIA



Competent Person under Factories Act 1948: Section 36

INDICATIVE CONSULTANT INDIA

HPL Link Road, P.O.- Khanjanehak, Haldia, Purba Medinipur – 721 602

Govt. Regn. No.: L-64871, MSME Reg. No.: WB-12-0000228

FORM NO.-30

TABLE NO.-1

Ph - 03224-275763
Mob - 9434017584

e-mail : jayantasarkar67@gmail.com / indicativeconsultantindia@gmail.com

Result of Analysis of : **M/s. ORISSA METALLURGICAL INDUSTRY PVT. LTD.**

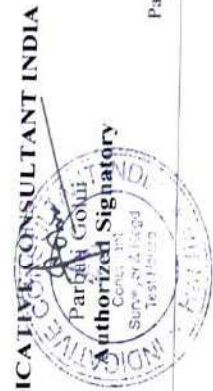
Address: Mouza: Mathurakismat, Gokulpur, Kharagpur, Dist.: Paschim Medinipur, Pin: 721301, W.B.

Register Containing Particulars of monitoring of Work Environment required Under Section 7-A(2)(e) of the Act.

1. Name of the Department/Plant : **COAL HANDLING AREA**
2. Raw materials, by-products and finished products : *See Annexure-1*
3. Particular of Sampling :

Sl No	Location / Operation Monitoring	Identified Contaminant	Date & Time of Monitoring	Sampling Instrument Used	Airborne Contamination			TWA Concentration as given in 2 nd Schedule (mg/M ³)	Reference Method	Number of workers exposed at the location being monitored		Remarks	Signature of person taking Samples	Name (in Block letters)	
					No of sample	Range mg/M ³	Avg. mg/M ³			Continuous Exposure	Short term Exposure				
1.	COAL HANDLING AREA	Respirable Particulate Matter (RPM/PM10)	29.12.2023	See Annexure-1	3	2.587 2.698 2.883	2.723	5.0	See Annexure-1	20 (per shift)	-	Below PEL	<i>(Signature)</i>	<i>(PRABHAT)</i>	
		Total Suspended Particulate Matter (TSPM)			3	6.874 6.954 7.052	6.960	10.0		20 (per shift)	-				Below PEL
		Sulphur Dioxide (SO2)			3	0.010 0.012 0.010	0.011	5.0		20 (per shift)	-				Below PEL
		Oxides of Nitrogen (NOx)			3	0.014 0.015 0.014	0.014	6.0		20 (per shift)	-				Below PEL
		Quartz Silica			3	0.078 0.084 0.092	0.085	See the TWA concentration in terms of RPM		20 (per shift)	-				Below PEL

- PEL – Permissible Exposure Limit
- Calculated from % of Quartz Silica in terms of RPM = $\frac{10}{\% \text{ Quartz} + 2}$



For: INDICATIVE CONSULTANT INDIA

ANNEXURE - 1

1. **RAW MATERIAL** - Iron Ore, Coal, Pellet.
2. **BY PRODUCT** - Dolochar
3. **FINISH PRODUCT** - Sponge Iron

4. METHOD OF ANALYSIS :

- i) *Respirable Particulate Matter (RPM) : A) Method of air sampling and analysis as per IS:5182(Part - IV) 1999.*
- ii) *Suspended Particulate Matter (SPM) : A) Method of air sampling and analysis as per IS:5182(Part - IV) 1999.*
- iii) *Sulphur Dioxide (SO₂) : As per IS:5182 (Part - II)*
- iv) *Oxides of Nitrogen (NO₂) : As per IS:5182 (Part - VI)*
- v) *Silica by Gravimetric method*

5. INSTRUMENTS USED:

The following standard instruments utilized during the entire survey period and all the instruments are calibrated.

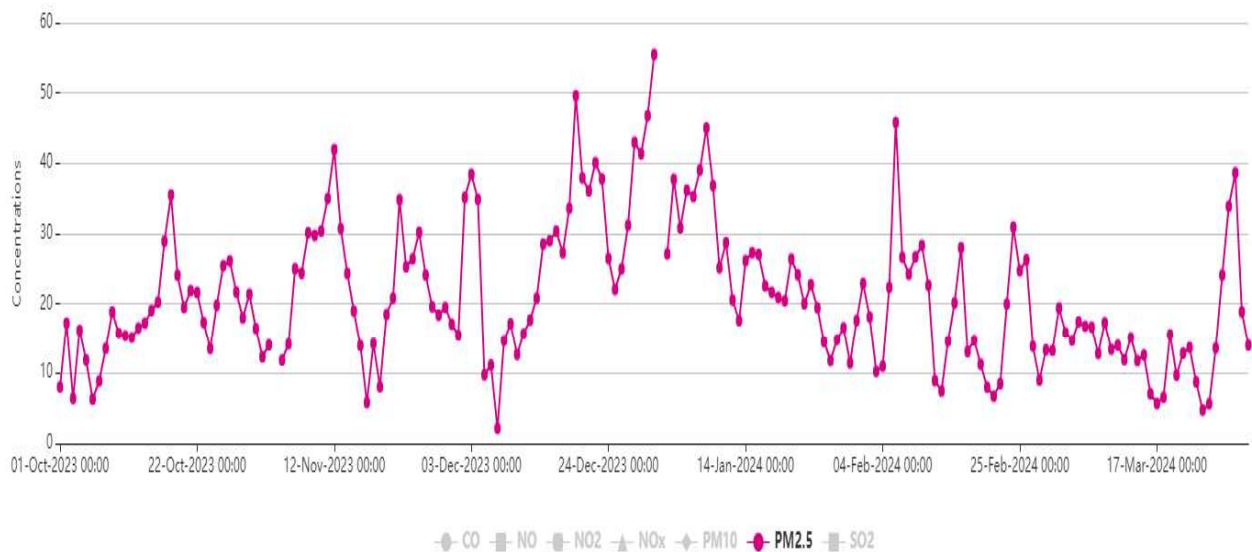
- i) *Respirable Dust Sampler with Gaseous Attachment*
- ii) *UV-Vis Double Beam Spectrophotometer.*
- iii) *Electronic Digital Balance.*
- iv) *Hot Air Oven*
- v) *Desiccator*
- vi) *Hydrometer / Dry Bulb- Wet Bulb Temperature Indicator Meter*
- vii) *Digital Anemometer*



CAAQMS DATA (OCOPER 2023 to MARCH 2024)

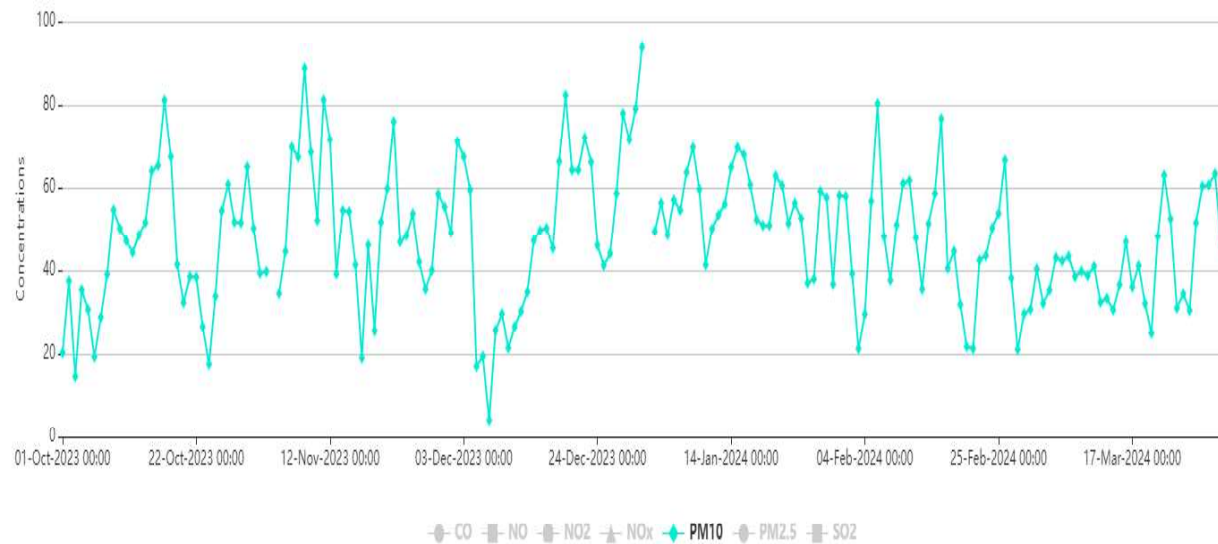
LOCATION : KALYANPUR VILLAGE

Parameters : PM 2.5



LOCATION : KALYANPUR VILLAGE

Parameters : PM 10



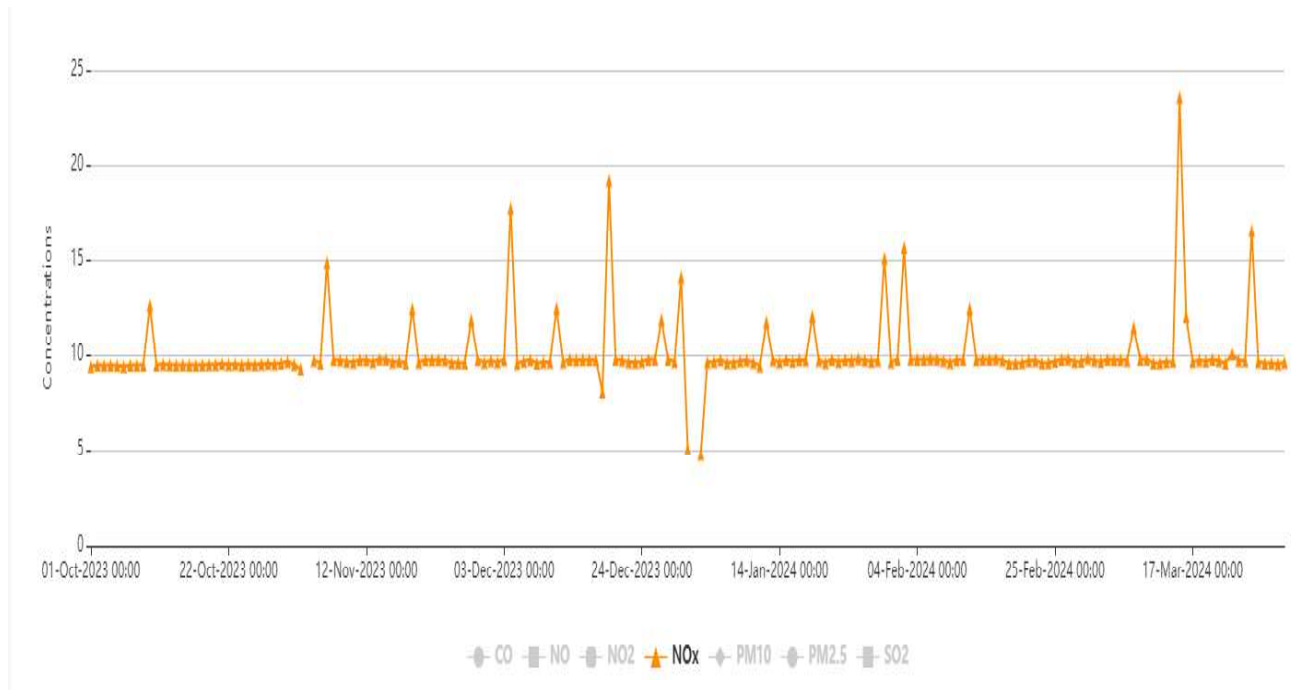
LOCATION : KALYANPUR VILLAGE

Parameters : SO2



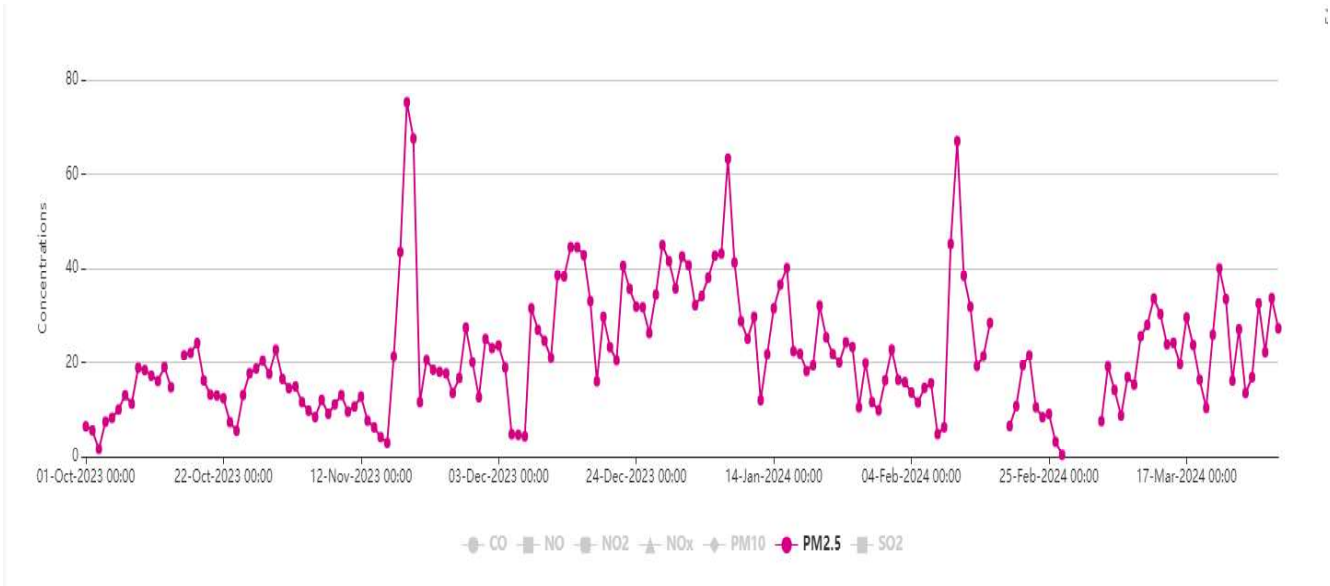
LOCATION : KALYANPUR VILLAGE

Parameters : NOx



LOCATION : RAJOGGRAM

Parameters : PM2.5



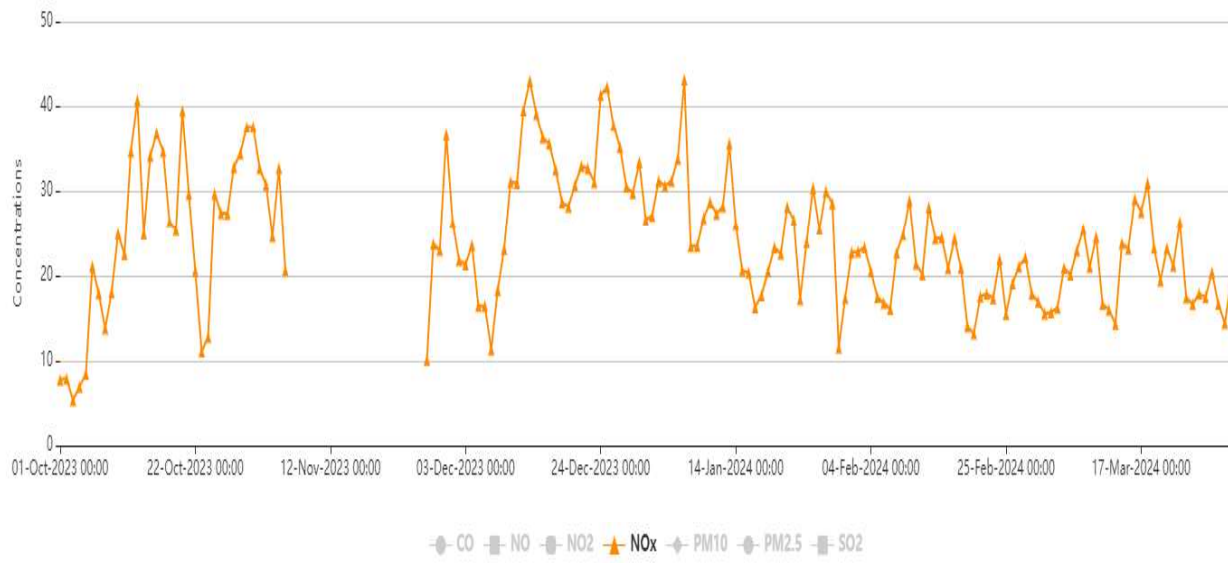
LOCATION : RAJOGGRAM

Parameters : SO2



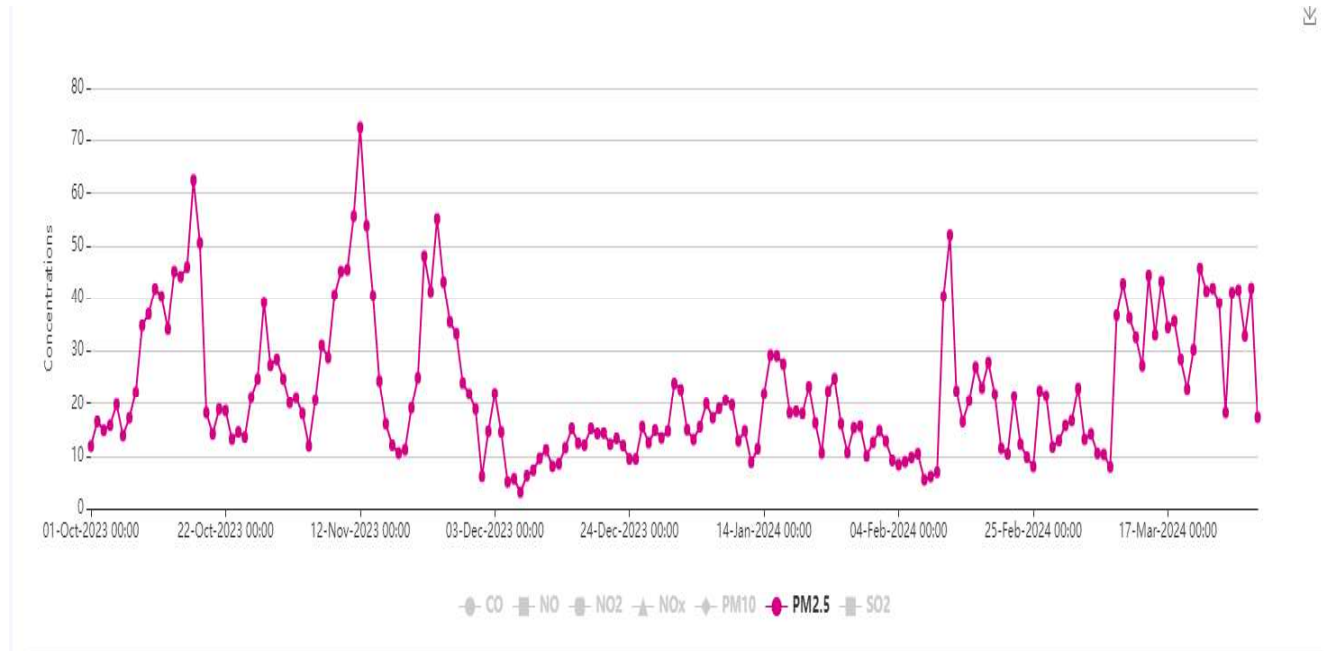
LOCATION : RAJOGGRAM

Parameters : NOx



LOCATION : BARKOLA

Parameters : PM2.5



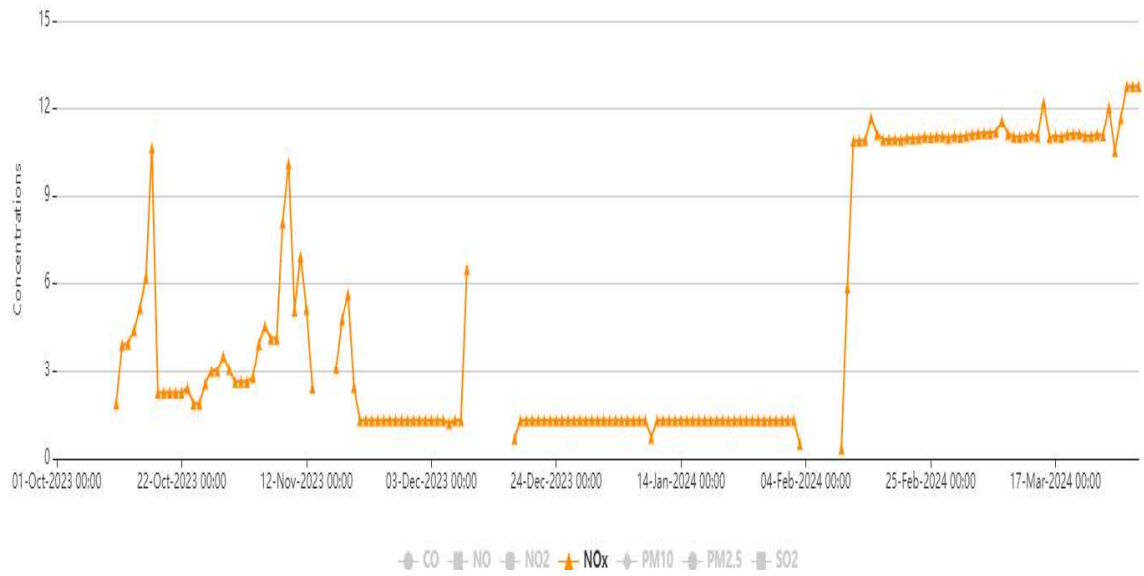
LOCATION : BARKOLA

Parameters : SO2



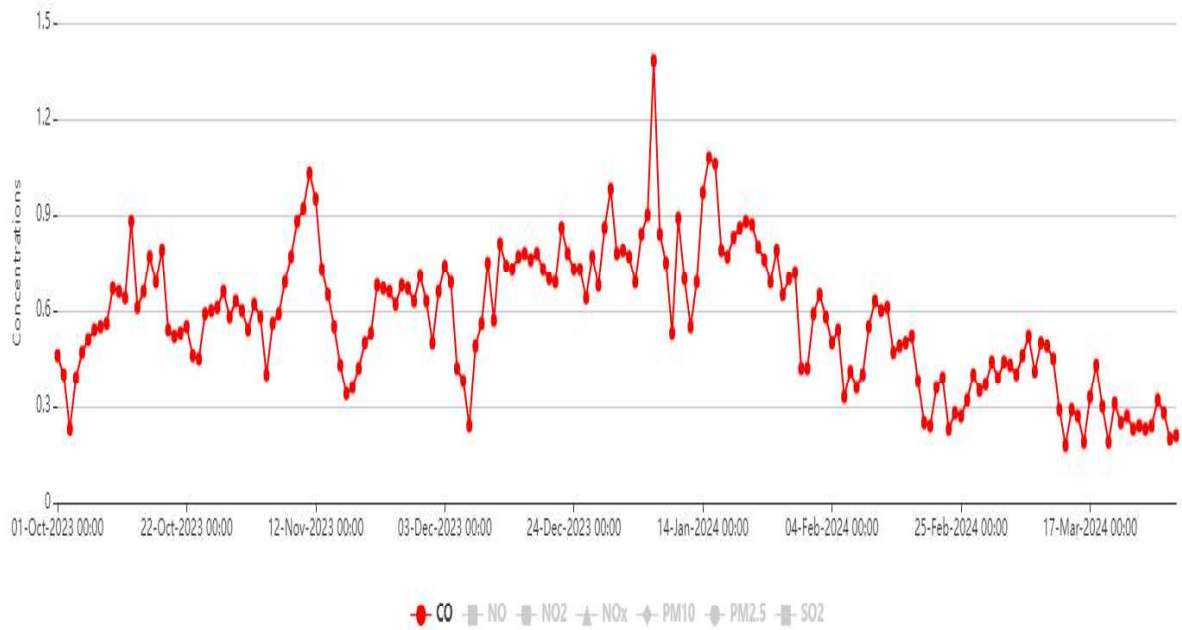
LOCATION : BARKOLA

Parameters : NOx



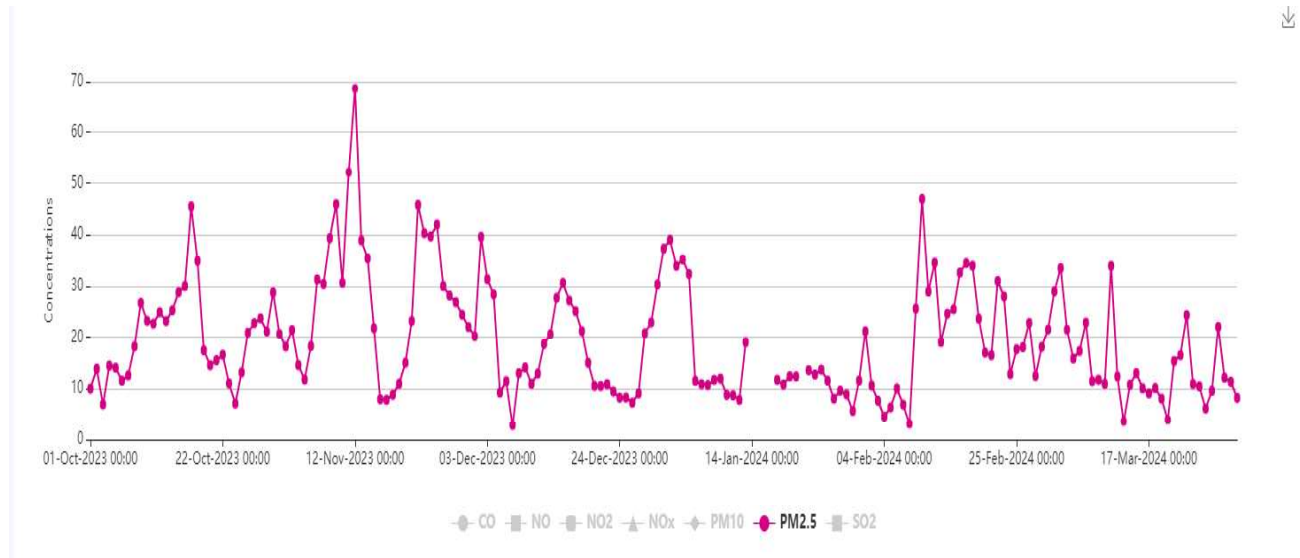
LOCATION : BARKOLA

Parameters : CO



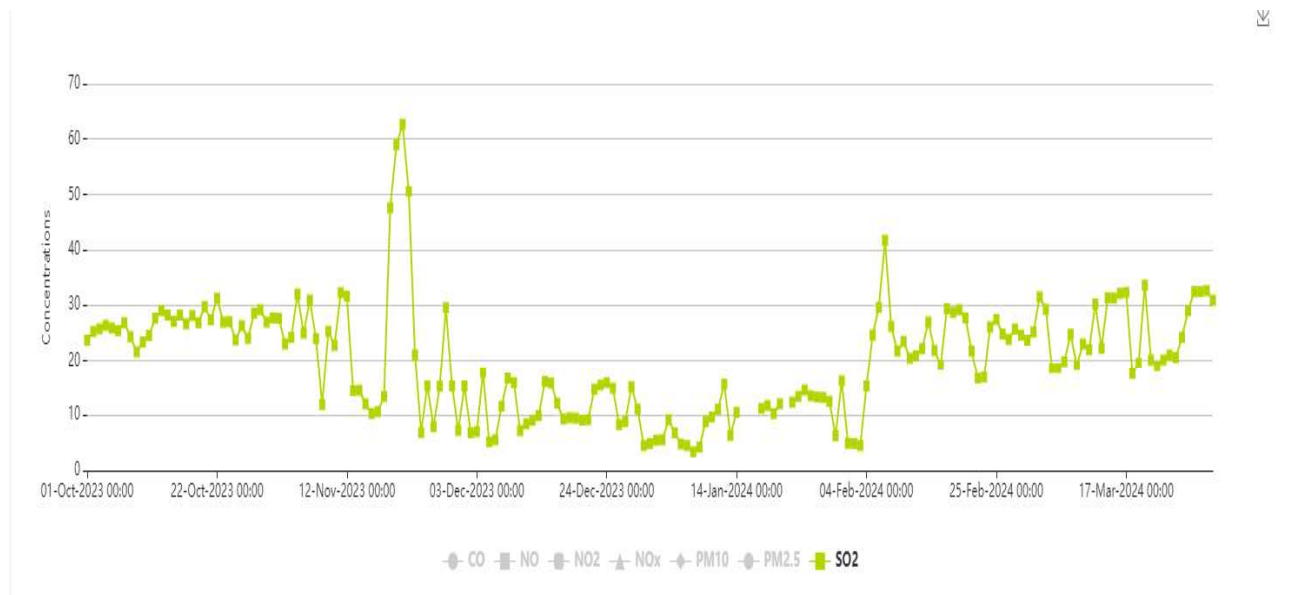
LOCATION : PANCHRULIA

Parameters : PM 2.5



LOCATION : PANCHRULIA

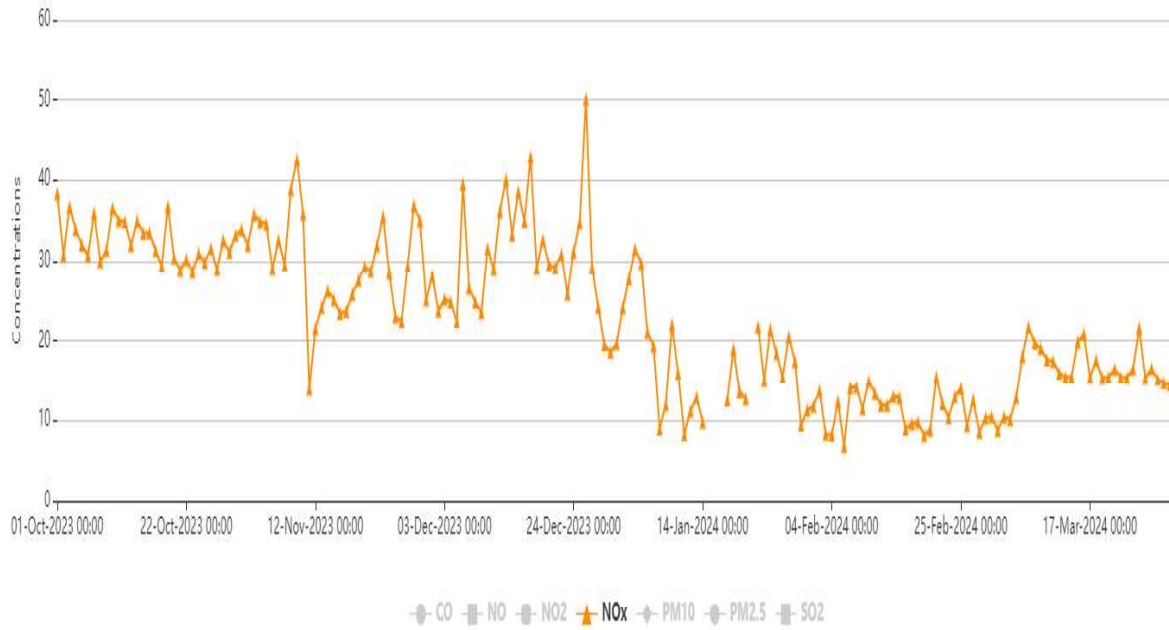
Parameters : SO2



LOCATION : PANCHRULIA

Parameters : NOx

☰



LOCATION : PANCHRULIA

Parameters : CO

☰





DOC NO : QLS/SAMP/08-A/00

TEST REPORT

Name & Address Of the Customer : M/s. Orissa Metallurgical Industry Pvt. Ltd. Mouza- Amba, Mathurakismat, Vill- Gokulpur, P.O- Shyamraipur, P.S- Kharagpur (L), Paschim Medinipur, West Bengal.	Report No.	: QLS/P-34/23-24/C/13
	Date	: 18.04.2024
	Sample No.	: QLS/P-34/23-24/13
	Sample Description	: Ambient Air
	Date of performance	: 25.03.2024-29.03.2024
	Ref No. & Date	: M 124379552, Dated - 24.02.2024

Analysis Result

Location : Near Plant Main Gate		Date of sampling : 22-23.03.2024		
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 ³	79	100	IS: 5182 (Part-23)-(RA-2017)
2	Particulate matter (<2.5µm,) in µg/m ³	46	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO ₂) in µg/m ³	8.5	80	IS: 5182 (Part-2)-2001, (RA-2017)
4	Nitrogen dioxide (NO ₂) in µg/m ³	30.1	80	IS: 5182 (Part- 6)- (RA-2017)
5	Carbon Monoxide (CO) in µg/m ³	675	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:

R. Sahoo

for Qualissure Laboratory Services
 Reviewed & Authorized By

Benimadhab Gorai
 Benimadhab Gorai, Chemist
 (Authorized Signatory)

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

- The results relate only to the item(s) tested.
- This Test Report shall not be reproduced without the permission of Qualissure Laboratory Services.
- The reserved part of sample(s), except perishable sample(s), shall be retained for 30 days from the date of issue of the Test Report.



DOC NO : QLS/SAMP/08-A/00

TEST REPORT

Name & Address Of the Customer : M/s. Orissa Metallurgical Industry Pvt. Ltd. Mouza- Amba, Mathurakismat, Vill- Gokulpur, P.O- Shyamraipur, P.S- Kharagpur (L), Paschim Medinipur, West Bengal.	Report No.	: QLS/P-34/23-24/C/14
	Date	: 18.04.2024
	Sample No.	: QLS/P-34/23-24/14
	Sample Description	: Ambient Air
	Date of performance	: 25.03.2024-29.03.2024
	Ref No. & Date	: M 124379552, Dated - 24.02.2024

Analysis Result

Location : Narayanpur Village		Date of sampling : 22-23.03.2024		
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 ³	53	100	IS: 5182 (Part-23)-(RA-2017)
2	Particulate matter (<2.5µm) in µg/m ³	30	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO ₂) in µg/m ³	5.0	80	IS: 5182 (Part-2)-2001, (RA-2017)
4	Nitrogen dioxide (NO ₂) in µg/m ³	22.4	80	IS: 5182 (Part- 6)- (RA-2017)
5	Carbon Monoxide (CO) in µg/m ³	435	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:

R. Sharma

for Qualissure Laboratory Services

Reviewed & Authorized By

Benimadhab Gorai, Chemist
(Authorized Signatory)

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

- The results relate only to the item(s) tested.
- This Test Report shall not be reproduced without the permission of Qualissure Laboratory Services.
- The reserved part of sample(s), except perishable sample(s), shall be retained for 30 days from the date of issue of the Test Report.



DOC NO : QLS/SAMP/08-A/00

TEST REPORT

Name & Address Of the Customer : M/s. Orissa Metallurgical Industry Pvt. Ltd. Mouza- Amba, Mathurakismat, Vill- Gokulpur, P.O- Shyamraipur, P.S- Kharagpur (L), Paschim Medinipur, West Bengal.	Report No.	: QLS/P-34/23-24/C/15
	Date	: 18.04.2024
	Sample No.	: QLS/P-34/23-24/15
	Sample Description	: Ambient Air
	Date of performance	: 25.03.2024-29.03.2024
	Ref No. & Date	: M 124379552, Dated - 24.02.2024

Analysis Result

Location : Benasole Village		Date of sampling : 22-23.03.2024		
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 ³	55	100	IS: 5182 (Part-23)-(RA-2017)
2	Particulate matter (<2.5µm) in µg/m ³	33	60	US EPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO ₂) in µg/m ³	5.5	80	IS. 5182 (Part-2)-2001, (RA-2017)
4	Nitrogen dioxide (NO ₂) in µg/m ³	24.7	80	IS: 5182 (Part- 6)- (RA-2017)
5	Carbon Monoxide (CO) in µg/m ³	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:

R. Shome

for Qualissure Laboratory Services
Reviewed & Authorized By

Benimadhab Gorai, Chemist
(Authorized Signatory)

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

- The results relate only to the item(s) tested.
- This Test Report shall not be reproduced without the permission of Qualissure Laboratory Services.
- The reserved part of sample(s), except perishable sample(s), shall be retained for 30 days from the date of issue of the Test Report.



DOC NO : QLS/SAMP/08-A/00

TEST REPORT

Name & Address Of the Customer : M/s. Orissa Metallurgical Industry Pvt. Ltd. Mouza- Amba, Mathurakismat, Vill- Gokulpur, P.O- Shyamraipur, P.S- Kharagpur (L), Paschim Medinipur, West Bengal.	Report No.	: QLS/P-34/23-24/C/16
	Date	: 18.04.2024
	Sample No.	: QLS/P-34/23-24/16
	Sample Description	: Ambient Air
	Date of performance	: 25.03.2024-29.03.2024
	Ref No. & Date	: M 124379552, Dated - 24.02.2024

Analysis Result

Location : Ghorachalk Village		Date of sampling : 23-24.03.2024		
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 ³	52	100	IS: 5182 (Part-23)-(RA-2017)
2	Particulate matter (<2.5µm) in µg/m ³	28	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO ₂) in µg/m ³	5.8	80	IS: 5182 (Part-2)-2001, (RA-2017)
4	Nitrogen dioxide (NO ₂) in µg/m ³	25.8	80	IS: 5182 (Part- 6)- (RA-2017)
5	Carbon Monoxide (CO) in µg/m ³	446	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:

R. Sahoo

for Qualissure Laboratory Services
Reviewed & Authorized By

Benimadhab Gorai, Chemist
(Authorized Signatory)

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

- The results relate only to the item(s) tested.
- This Test Report shall not be reproduced without the permission of Qualissure Laboratory Services.
- The reserved part of sample(s), except perishable sample(s), shall be retained for 30 days from the date of issue of the Test Report.



GREENVISION

(A leading environmental research laboratory)

Recognized by West Bengal Pollution Control Board

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

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



TC-11003

TEST REPORT OF FUGITIVE AIR ANALYSIS

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

U.L.R. No. : TC1100323000000621F

Sample is drawn by M/s. Greenvision

Report No.	: GV/AR/23-24/370	Sample Ref. ID	: AS-196-2023(1)
Name of Customer	: M/s. Orissa Metaliurgical Industry Pvt. Ltd.	Report Date	: 04.01.2024
Address of Customer	: Mouza : Amba, Mathurakismat, Vill. : Gokulpur, P.O. : Shyamraipur, P.S. : Kharagpur (L), Paschim Medinipur, W.B.	Date of Sampling	: 29.12.2023
Sample Description	: Fugitive Air	Date of Receiving	: 31.12.2023
Sampling Location	: DRI Plant 1 & 2	Analysis Started On	: 01.01.2024
Sample Condition	: In GMF Filter Paper & Plastic Bottle	Analysis Completed On	: 02.01.2024
Location of Testing	: At Laboratory	Time of Sampling	: 08:20 am to 04:20 pm
Sampling Method	: CPCB, Emission Regulation (Part III)		

A. METROLOGICAL INFORMATION

Average Temperature (°C) : 23.5

Barometric Pressure (mm of Hg) : 756.0

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of TSPM	µg/m ³	657.24	IS : 5182 (Part 4),1999
02.	Concentration of SO ₂	µg/m ³	7.94	IS : 5182 (Part 2),2006
03.	Concentration of NO ₂	µg/m ³	30.12	IS : 5182 (Part 6),2006

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

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

S. 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.



GREENVISION



TC-11003

(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 FUGITIVE AIR ANALYSIS

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

Sample is drawn by M/s. Greenvision

U.L.R. No. : TC1100323000000622F

Report No. : GV/AR/23-24/371
Name of Customer : M/s. Orissa Metaliurgical Industry Pvt. Ltd.
Address of Customer : Mouza : Amba, Mathurakismat, Vill. : Gokulpur,
P.O. : Shyamraipur, P.S. : Kharagpur (L),
Paschim Medinipur, W.B.
Sample Description : Fugitive Air
Sampling Location : DRI Plant 3 & 4
Sample Condition : In GMF Filter Paper & Plastic Bottle
Location of Testing : At Laboratory
Sampling Method : CPCB, Emission Regulation (Part III)

Sample Ref. ID : AS-196-2023(2)
Report Date : 04.01.2024
Date of Sampling : 29.12.2023
Date of Receiving : 31.12.2023
Analysis Started On : 01.01.2024
Analysis Completed On : 02.01.2024
Time of Sampling : 08:50 am to
04:50 pm

A. METROLOGICAL INFORMATION

Average Temperature (°C) : 23.5
Barometric Pressure (mm of Hg) : 756.0

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of TSPM	µg/m ³	594.18	IS : 5182 (Part 4),1999
02.	Concentration of SO ₂	µg/m ³	7.72	IS : 5182 (Part 2),2006
03.	Concentration of NO ₂	µg/m ³	29.86	IS : 5182 (Part 6),2006

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

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

S. 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.



GREEN VISION



TC-11003

(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 FUGITIVE AIR ANALYSIS

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

Sample is drawn by M/s. Greenvision

U.L.R. No. : TC1100323000000623F

Report No. : GV/AR/23-24/372
Name of Customer : M/s. Orissa Metaliurgical Industry Pvt. Ltd.
Address of Customer : Mouza : Amba, Mathurakismat, Vill. : Gokulpur,
P.O. : Shyamraipur, P.S. : Kharagpur (L),
Paschim Medinipur, W.B.
Sample Description : Fugitive Air
Sampling Location : Construction Site of SMS
Sample Condition : In GMF Filter Paper & Plastic Bottle
Location of Testing : At Laboratory
Sampling Method : CPCB, Emission Regulation (Part III)

Sample Ref. ID : AS-196-2023(3)
Report Date : 04.01.2024
Date of Sampling : 29.12.2023
Date of Receiving : 31.12.2023
Analysis Started On : 01.01.2024
Analysis Completed On : 02.01.2024
Time of Sampling : 09:25 am to
05:25 pm

A. METROLOGICAL INFORMATION

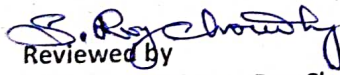
Average Temperature ($^{\circ}\text{C}$) : 23.5
Barometric Pressure (mm of Hg) : 756.0

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of TSPM	$\mu\text{g}/\text{m}^3$	636.27	IS : 5182 (Part 4),1999
02.	Concentration of SO_2	$\mu\text{g}/\text{m}^3$	8.12	IS : 5182 (Part 2),2006
03.	Concentration of NO_2	$\mu\text{g}/\text{m}^3$	30.52	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

- 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.



GREEN VISION



TC-11003

(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 FUGITIVE AIR ANALYSIS

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

U.L.R. No. : TC1100323000000624F

Sample is drawn by M/s. Greenvision

Report No. : GV/AR/23-24/373
Name of Customer : M/s. Orissa Metaliurgical Industry Pvt. Ltd.
Address of Customer : Mouza : Amba, Mathurakismat, Vill. : Gokulpur,
P.O. : Shyamraipur, P.S. : Kharagpur (L),
Paschim Medinipur, W.B.
Sample Description : Fugitive Air
Sampling Location : Construction Site of DRI
Sample Condition : In GMF Filter Paper & Plastic Bottle
Location of Testing : At Laboratory
Sampling Method : CPCB, Emission Regulation (Part III)

Sample Ref. ID : AS-196-2023(4)
Report Date : 04.01.2024
Date of Sampling : 29.12.2023
Date of Receiving : 31.12.2023
Analysis Started On : 01.01.2024
Analysis Completed On : 02.01.2024
Time of Sampling : 09:45 am to
05:45 pm

A. METROLOGICAL INFORMATION

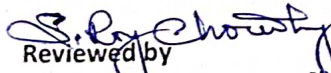
Average Temperature ($^{\circ}\text{C}$) : 23.5
Barometric Pressure (mm of Hg) : 756.0

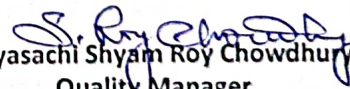
B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of TSPM	$\mu\text{g}/\text{m}^3$	577.62	IS : 5182 (Part 4),1999
02.	Concentration of SO_2	$\mu\text{g}/\text{m}^3$	8.3	IS : 5182 (Part 2),2006
03.	Concentration of NO_2	$\mu\text{g}/\text{m}^3$	30.76	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

- 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.



GREEN VISION



TC-11003

(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 FUGITIVE AIR ANALYSIS

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

U.L.R. No. : TC110032300000625F

Sample is drawn by M/s. Greenvision

Report No. : GV/AR/23-24/374

Name of Customer : M/s. Orissa Metaliurgical Industry Pvt. Ltd.

Address of Customer : Mouza : Amba, Mathurakismat, Vill. : Gokulpur,
P.O. : Shyamraipur, P.S. : Kharagpur (L),
Paschim Medinipur, W.B.

Sample Description : Fugitive Air

Sampling Location : Water Reservoir 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-196-2023(5)

Report Date : 04.01.2024

Date of Sampling : 29.12.2023 to
30.12.2023

09.02.2024

Date of Receiving : 31.12.2023

Analysis Started On : 01.01.2024

Analysis Completed On : 02.01.2024

Time of Sampling : 04:50 pm to
12:50 am

A. METROLOGICAL INFORMATION

Average Temperature (°C) : 20.0

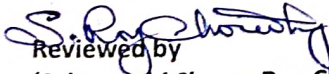
Barometric Pressure (mm of Hg) : 756.0

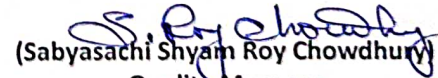
B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of TSPM	µg/m ³	362.48	IS : 5182 (Part 4),1999
02.	Concentration of SO ₂	µg/m ³	7.14	IS : 5182 (Part 2),2006
03.	Concentration of NO ₂	µg/m ³	29.12	IS : 5182 (Part 6),2006

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

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


Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager


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

- 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.



GREENVISION

(A leading environmental research laboratory)

Recognized by West Bengal Pollution Control Board

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

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



TC-11003

TEST REPORT OF FUGITIVE AIR ANALYSIS

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

Sample is drawn by M/s. Greenvision

U.L.R. No. : TC1100323000000626F

Report No. : GV/AR/23-24/375

Sample Ref. ID : AS-196-2023(6)

Name of Customer : M/s. Orissa Metallurgical Industry Pvt. Ltd.

Report Date : 04.01.2024

Address of Customer : Mouza : Amba, Mathurakismat, Vill. : Gokulpur,
P.O. : Shyamraipur, P.S. : Kharagpur (L),
Paschim Medinipur, W.B.

Date of Sampling : 29.12.2023 to
30.12.2023
09.02.2024

Sample Description : Fugitive Air

Date of Receiving : 31.12.2023

Sampling Location : Construction of Railway Siding

Analysis Started On : 01.01.2024

Analysis Completed On : 02.01.2024

Time of Sampling : 05:50 pm to
01:50 am

Sample Condition : In GMF Filter Paper & Plastic Bottle

Location of Testing : At Laboratory

Sampling Method : CPCB, Emission Regulation (Part III)

A. METROLOGICAL INFORMATION

Average Temperature ($^{\circ}$ C) : 20.0

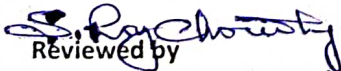
Barometric Pressure (mm of Hg) : 756.0

B. RESULT OF ANALYSIS


Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of TSPM	$\mu\text{g}/\text{m}^3$	682.06	IS : 5182 (Part 4),1999
02.	Concentration of SO_2	$\mu\text{g}/\text{m}^3$	7.5	IS : 5182 (Part 2),2006
03.	Concentration of NO_2	$\mu\text{g}/\text{m}^3$	29.52	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

- 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.



GREEN VISION



TC-11003

(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 FUGITIVE AIR ANALYSIS

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

U.L.R. No. : TC1100323000000627F

Sample is drawn by M/s. Greenvision

Report No. : GV/AR/23-24/376

Name of Customer : M/s. Orissa Metaliurgical Industry Pvt. Ltd.

Address of Customer : Mouza : Amba, Mathurakismat, Vill. : Gokulpur,
P.O. : Shyamraipur, P.S. : Kharagpur (L),
Paschim Medinipur, W.B.

Sample Description : Fugitive Air

Sampling Location : CPP Area

Sample Condition : In GMF Filter Paper & Plastic Bottle

Location of Testing : At Laboratory

Sampling Method : CPCB, Emission Regulation (Part III)

Sample Ref. ID : AS-196-2023(7)

Report Date : 04.01.2024

Date of Sampling : 29.12.2023 to
30.12.2023

: 09.02.2024

Date of Receiving : 31.12.2023

Analysis Started On : 01.01.2024

Analysis Completed On : 02.01.2024

Time of Sampling : 06:25 pm to
02:25 am

A. METROLOGICAL INFORMATION

Average Temperature ($^{\circ}\text{C}$) : 20.0

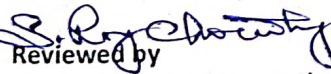
Barometric Pressure (mm of Hg) : 756.0

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of TSPM	$\mu\text{g}/\text{m}^3$	546.13	IS : 5182 (Part 4),1999
02.	Concentration of SO_2	$\mu\text{g}/\text{m}^3$	8.28	IS : 5182 (Part 2),2006
03.	Concentration of NO_2	$\mu\text{g}/\text{m}^3$	30.46	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

- 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.



GREEN VISION



TC-11003

(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 FUGITIVE AIR ANALYSIS

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

Sample is drawn by M/s. Greenvision

U.L.R. No. : TC1100323000000628F

Report No. : GV/AR/23-24/377
Name of Customer : M/s. Orissa Metaliurgical Industry Pvt. Ltd.
Address of Customer : Mouza : Amba, Mathurakismat, Vill. : Gokulpur,
P.O. : Shyamraipur, P.S. : Kharagpur (L),
Paschim Medinipur, 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-196-2023(8)
Report Date : 04.01.2024
Date of Sampling : 29.12.2023 to
30.12.2023
09.02.2024
Date of Receiving : 31.12.2023
Analysis Started On : 01.01.2024
Analysis Completed On : 02.01.2024
Time of Sampling : 06:45 pm to
02:45 am

A. METROLOGICAL INFORMATION

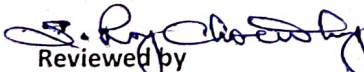
Average Temperature ($^{\circ}\text{C}$) : 20.0
Barometric Pressure (mm of Hg) : 756.0


B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of TSPM	$\mu\text{g}/\text{m}^3$	486.54	IS : 5182 (Part 4),1999
02.	Concentration of SO_2	$\mu\text{g}/\text{m}^3$	8.56	IS : 5182 (Part 2),2006
03.	Concentration of NO_2	$\mu\text{g}/\text{m}^3$	30.68	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

- 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.



TEST REPORT

Name & Address Of the Customer : M/s. Orissa Metallurgical Industry Pvt. Ltd. Mouza- Amba, Mathurakismat, Vill- Gokulpur, P.O- Shyamraipur, P.S- Kharagpur (L), Paschim Medinipur, West Bengal.	Report No.	: QLS/P-34/23-24/C/17
	Date	: 18.04.2024
	Sample No.	: QLS/P-34/23-24/17-24
	Sample Description	: Fugitive Air
	Date of performance	: 25.03.2024-29.03.2024
	Ref No. & Date	: M 124379552, Dated - 24.02.2024

Analysis Result of Fugitive Air

Sampling Done by: C.Sahoo			
Environmental Condition : Clear & Sunny			
Sampling done as per : CPCB Guidelines (Volume-1)			
Sample No.	Location	Date of Sampling	Total Suspended Particulate Matter in $\mu\text{g}/\text{m}^3$
17	DRI 1 & 2	22.03.2024	321
18	CPP Area		178
19	DRI-3 & 4		270
20	Truck Parking Area		183
21	Construction Site Of SMS	23.03.2024	351
22	Water Reservoir Area		118
23	Construction Of DRI		256
24	Construction Of Railway Siding		310
NOTE: Fugitive emission Standard - $4000 \mu\text{g}/\text{m}^3$ as per Environment (Protection) rules, 1986			

Report Prepared By:

R. Sroona

for Qualissure Laboratory Services
 Reviewed & Authorized By

Benimadhab Gorai, Chemist
 (Authorized Signatory)

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

- The results relate only to the item(s) tested.
- This Test Report shall not be reproduced without the permission of Qualissure Laboratory Services.
- The reserved part of sample(s), except perishable sample(s), shall be retained for 30 days from the date of issue of the Test Report.



TEST REPORT

Name & Address Of the Customer : M/s. Orissa Metallurgical Industry Pvt. Ltd. Mouza- Amba, Mathurakismat, Vill- Gokulpur, P.O- Shyamraipur, P.S- Kharagpur (L), Paschim Medinipur, West Bengal.	ULR No. : TC62712400000508F Report No. : QLS/P-34/23-24/C/27 Date : 22.04.2024 Sample No. : QLS/P-34/23-24/27 Sample Description : Ground Water Sample Mark : Kantapal Village Sample Drawn On : 23.03.2024 Date of performance : 26.03.2024-06.04.2024 Ref No. Date : M 124379552, Dated. 24.02.2024

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 10500:2012 Amd. 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	7.33
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	418
6.	Aluminium (as Al) in mg/l	IS 3025 (Part 55): 2003 (RA 2019)	0.03	0.2	<0.01
7.	Ammonia as NH ₃ 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	45.0
9.	Chloride(as Cl) in mg/l	IS 3025 (Part 32): 1988 (RA 2019)	250	1000	63.1
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 th Edition 2023, 4500 F D	1.0	1.5	0.21
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)	1.0	No Relaxation	0.42
14.	Magnesium(as Mg) in mg/l	APHA 24 th 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 ₃) in mg/l	IS 3025 (Part 34): 1988(RA 2019)	45	No Relaxation	0.70
17.	Sulphate (as SO ₄) in mg/l	IS 3025 (Part 24): Sec1, 2022	200	400	30.2
18.	Alkalinity(as CaCO ₃) in mg/l	IS 3025 (Part 23): 2023	200	600	194.0
19.	Total Hardness (as CaCO ₃) in mg/l	IS 3025 (Part 21): 2009 (RA 2019)	200	600	184.8
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	No Relaxation	<0.01
25.	Zinc(as Zn) in mg/l	IS 3025 (Part 49): 1994 (RA 2019)	5	15	0.06
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-----

- The results relate only to the item(s) tested.
- This Test Report shall not be reproduced without the permission of Qualissure Laboratory Services.
- The reserved part of sample(s), except perishable sample(s), shall be retained for 30 days from the date of issue of the Test Report.



TEST REPORT

Name & Address Of the Customer :	ULR No. : TC62712400000509F
M/s. Orissa Metallurgical Industry Pvt. Ltd.	Report No. : QLS/P-34/23-24/C/28
Mouza- Amba, Mathurakismat,	Date : 22.04.2024
Vill- Gokulpur, P.O- Shyamraipur,	Sample No. : QLS/P-34/23-24/28
P.S- Kharagpur (L),	Sample Description : Ground Water
Paschim Medinipur, West Bengal.	Sample Mark : Mathura Kismat Village
	Sample Drawn On : 23.03.2024
	Date of performance : 26.03.2024-06.04.2024
	Ref No. Date : M 124379552, Dated. 24.02.2024

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 10500:2012 Amd. 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	7.24
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	366
6.	Aluminium (as Al) in mg/l	IS 3025 (Part 55): 2003 (RA 2019)	0.03	0.2	<0.01
7.	Ammonia (as NH ₃) 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	32.6
9.	Chloride(as Cl) in mg/l	IS 3025 (Part 32): 1988 (RA 2019)	250	1000	67.0
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 th Edition 2023, 4500 F.D.	1.0	1.5	0.17
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)	1.0	No Relaxation	0.36
14.	Magnesium(as Mg) in mg/l	APHA 24 th Edition 2023, 3500 Mg B	30	100	20.6
15.	Manganese (as Mn) in mg/l	IS 3025 (Part 59): 2023	0.1	0.3	<0.02
16.	Nitrate (as NO ₃) in mg/l	IS 3025 (Part 34): 1988(RA 2019)	45	No Relaxation	0.56
17.	Sulphate (as SO ₄) in mg/l	IS 3025 (Part 24): Sec1, 2022	200	400	26.7
18.	Alkalinity(as CaCO ₃) in mg/l	IS 3025 (Part 23): 2023	200	600	134.4
19.	Total Hardness (as CaCO ₃) in mg/l	IS 3025 (Part 21): 2009 (RA 2019)	200	600	170.7
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	No Relaxation	<0.01
25.	Zinc(as Zn) in mg/l	IS 3025 (Part 49): 1994 (RA 2019)	5	15	0.03
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
Bishnupriya Banerjee, Chemist
(Authorized Signatory)

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

- The results relate only to the item(s) tested.
- This Test Report shall not be reproduced without the permission of Qualissure Laboratory Services.
- The reserved part of sample(s), except perishable sample(s), shall be retained for 30 days from the date of issue of the Test Report.



DOC NO : QLS/SAMP/08-D/00

TEST REPORT

Name & Address Of the Customer :	ULR No. : TC62712400000510F
M/s. Orissa Metallurgical Industry Pvt. Ltd.	Report No. : QLS/P-34/23-24/C/29
Mouza- Amba, Mathurakismat,	Date : 22.04.2024
Vill- Gokulpur, P.O- Shyamraipur,	Sample No. : QLS/P-34/23-24/29
P.S- Kharagpur (L),	Sample Description : Ground Water
Paschim Medinipur, West Bengal.	Sample Mark : Latibpur Village
	Sample Drawn On : 23.03.2024
	Date of performance : 26.03.2023-06.04.2023
	Ref No. Date : M 124379552, Dated. 24.02.2024

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 10500:2012 Amd. 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	7.42
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	452
6.	Aluminium (as Al) in mg/l	IS 3025 (Part 55): 2003 (RA 2019)	0.03	0.2	<0.01
7.	Ammonia as NH ₃ 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	29.5
9.	Chloride(as Cl) in mg/l	IS 3025 (Part 32): 1988 (RA 2019)	250	1000	76.9
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 th Edition 2023; 4500.F.D	1.0	1.5	0.37
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)	1.0	No Relaxation	0.51
14.	Magnesium(as Mg) in mg/l	APHA 24 th Edition 2023, 3500 Mg B	30	100	17.2
15.	Manganese (as Mn) in mg/l	IS 3025 (Part 59): 2023	0.1	0.3	<0.02
16.	Nitrate (as NO ₃) in mg/l	IS 3025 (Part 34): 1988(RA 2019)	45	No Relaxation	0.79
17.	Sulphate (as SO ₄) in mg/l	IS 3025 (Part 24): Sec1, 2022	200	400	34.8
18.	Alkalinity(as CaCO ₃) in mg/l	IS 3025 (Part 23): 2023	200	600	121.8
19.	Total Hardness (as CaCO ₃) in mg/l	IS 3025 (Part 21): 2009 (RA 2019)	200	600	151.3
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	No Relaxation	<0.01
25.	Zinc(as Zn) in mg/l	IS 3025 (Part 49): 1994 (RA 2019)	5	15	0.14
26.	Total Chromium (as Cr) in mg/l	IS 3025 (Part 52): 2014(RA 2019)	0.05	No Relaxation	<0.05

Report Prepared By:

Srey

for Qualissure Laboratory Services
 Reviewed & Authorized By

S. Chakraborty
 Soumy Chakraborty, Microbiologist
 (Authorized Signatory)

for Qualissure Laboratory Services
 Reviewed & Authorized By

Bishnupriya Banerjee
 Bishnupriya Banerjee, Chemist
 (Authorized Signatory)

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

- The results relate only to the item(s) tested.
- This Test Report shall not be reproduced without the permission of Qualissure Laboratory Services.
- The reserved part of sample(s), except perishable sample(s), shall be retained for 30 days from the date of issue of the Test Report.



TEST REPORT

Name & Address Of the Customer :	ULR No. : TC62712400000511F
M/s. Orissa Metallurgical Industry Pvt. Ltd.	Report No. : QLS/P-34/23-24/C/30
Mouza- Amba, Mathurakismat,	Date : 22.04.2024
Vill- Gokulpur, P.O- Shyamraipur,	Sample No. : QLS/P-34/23-24/30
P.S- Kharagpur (L),	Sample Description : Ground Water
Paschim Medinipur, West Bengal.	Sample Mark : Risa Village
	Sample Drawn On : 23.03.2024
	Date of performance : 26.03.2024-06.04.2024
	Ref No. Date : M.124379552, Dated. 24.02.2024

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 10500:2012 Amd. 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	7.35
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	432
6.	Aluminium (as Al) in mg/l	IS 3025 (Part 55): 2003 (RA 2019)	0.03	0.2	<0.01
7.	Ammonia (as NH ₃) 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	31.0
9.	Chloride (as Cl) in mg/l	IS 3025 (Part 32): 1988 (RA 2019)	250	1000	80.8
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 th Edition 2023, 4500 F.D.	1.0	1.5	0.22
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)	1.0	No Relaxation	0.26
14.	Magnesium (as Mg) in mg/l	APHA 24 th Edition 2023, 3500 Mg.B.	30	100	18.3
15.	Manganese (as Mn) in mg/l	IS 3025 (Part 59): 2023	0.1	0.3	<0.02
16.	Nitrate (as NO ₃) in mg/l	IS 3025 (Part 34): 1988 (RA 2019)	45	No Relaxation	<0.5
17.	Sulphate (as SO ₄) in mg/l	IS 3025 (Part 24): Sec1, 2022	200	400	31.4
18.	Alkalinity (as CaCO ₃) in mg/l	IS 3025 (Part 23): 2023	200	600	130.2
19.	Total Hardness (as CaCO ₃) in mg/l	IS 3025 (Part 21): 2009 (RA 2019)	200	600	163.0
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	No Relaxation	<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
Bishnupriya Banerjee, Chemist
(Authorized Signatory)

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

- The results relate only to the item(s) tested.
- This Test Report shall not be reproduced without the permission of Qualissure Laboratory Services.
- The reserved part of sample(s), except perishable sample(s), shall be retained for 30 days from the date of issue of the Test Report.

**TEST REPORT**

Name & Address Of the Customer : M/s. Orissa Metallurgical Industry Pvt. Ltd. Mouza- Amba, Mathurakismat, Vill- Gokulpur, P.O- Shyamraipur, P.S- Kharagpur (L), Paschim Medinipur, West Bengal.	Report No. : QLS/P-34/23-24/C/25A Date : 18.04.2024 Sample No. : QLS/P-34/23-24/25A Date of Performance : 25.03.2024-29.03.2024 Sample Description : Noise Monitoring Ref No. & Date : M 124379552, Dated - 24.02.2024
--	---

Monitoring Result of Noise

Sampling Done By: C.Sahoo			
Sampling Guideline : As per IS: 9876: 1981 (RA-2001)			
Location : DRI & CPP Area			
Date of Monitoring : 22.03.2024-23.03.2024			
Time	Lmax dB (A)	Lmin dB (A)	Avg. dB (A)
06.00-07.00	52.4	49.8	50.9
07.00-08.00	56.7	48.7	51.5
08.00-09.00	54.2	50.7	52.8
09.00-10.00	55.7	53.1	54.0
10.00-11.00	55.7	51.3	52.7
11.00-12.00	62.5	51.2	54.3
12.00-13.00	63.2	55.9	60.3
13.00-14.00	64.1	60.2	62.2
14.00-15.00	63.2	52.3	59.0
15.00-16.00	60.2	54.1	58.0
16.00-17.00	59.3	56.8	58.3
17.00-18.00	68.5	57.2	60.1
18.00-19.00	62.3	54.5	57.1
19.00-20.00	64.5	51.2	57.0
20.00-21.00	58.5	50.2	54.0
21.00-22.00	55.3	50.1	53.0
22.00-23.00	56.5	48.4	52.0
23.00-00.00	54.5	49.7	51.4
00.00-01.00	51.2	44.8	49.2
01.00-02.00	57.4	48.9	52.3
02.00-03.00	51.2	49.5	50.5
03.00-04.00	55.2	43.2	48.7
04.00-05.00	54.9	50.2	51.9
05.00-06.00	59.3	48.5	52.8

Leq dB Day Time	Leq dB Night Time	Average dB
58.6	52.3	54.3

Report Prepared By:

R. Sharma

for Qualissure Laboratory Services
Reviewed & Authorized ByBenimadhab Gorai, Chemist
(Authorized Signatory)

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

- The results relate only to the item(s) tested.
- This Test Report shall not be reproduced without the permission of Qualissure Laboratory Services.
- The reserved part of sample(s), except perishable sample(s), shall be retained for 30 days from the date of issue of the Test Report.



TEST REPORT

Name & Address Of the Customer : M/s. Orissa Metallurgical Industry Pvt. Ltd. Mouza- Amba, Mathurakismat, Vill- Gokulpur, P.O- Shyamraipur, P.S- Kharagpur (L), Paschim Medinipur, West Bengal.	Report No.	: QLS/P-34/23-24/C/25B
	Date	: 18.04.2024
	Sample No.	: QLS/P-34/23-24/25B
	Date of Performance	: 25.03.2024-29.03.2024
	Sample Description	: Noise Monitoring
Ref No. & Date	: M 124379552, Dated - 24.02.2024	

Monitoring Result of Noise

Sampling Done By: C.Sahoo			
Sampling Guideline : As per IS: 9876: 1981 (RA-2001)			
Location : Truck Parking Area			
Date of Monitoring : 22.03.2024-23.03.2024			
Time	Lmax dB (A)	Lmin dB (A)	Avg. dB (A)
06.00-07.00	50.6	45.5	48.7
07.00-08.00	55.8	42.3	50.1
08.00-09.00	58.5	43.5	50.6
09.00-10.00	60.4	57.4	59.0
10.00-11.00	65.2	50.0	60.4
11.00-12.00	62.3	50.4	56.1
12.00-13.00	61.8	59.8	60.6
13.00-14.00	65.5	57.8	60.6
14.00-15.00	62.3	49.6	55.2
15.00-16.00	61.2	59.8	60.4
16.00-17.00	61.2	51.3	58.2
17.00-18.00	60.9	52.3	57.7
18.00-19.00	61.5	55.2	58.1
19.00-20.00	62.8	50.0	56.9
20.00-21.00	57.8	49.8	54.1
21.00-22.00	64.1	52.6	57.4
22.00-23.00	63.6	51.2	54.8
23.00-00.00	54.1	46.5	51.0
00.00-01.00	57.1	48.9	52.9
01.00-02.00	52.5	49.0	50.4
02.00-03.00	51.3	48.8	49.8
03.00-04.00	53.9	49.8	52.7
04.00-05.00	48.2	47.1	47.7
05.00-06.00	52.3	49.8	50.8

Leq dB Day Time	Leq dB Night Time	Average dB
59.8	52.0	54.7

Report Prepared By:

R. Sharma

for Qualissure Laboratory Services
Reviewed & Authorized By

Benimadhab Gorai, Chemist
(Authorized Signatory)



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

- The results relate only to the item(s) tested.
- This Test Report shall not be reproduced without the permission of Qualissure Laboratory Services.
- The reserved part of sample(s), except perishable sample(s), shall be retained for 30 days from the date of issue of the Test Report.



Qualissure Laboratory Services

361, Prantick Pally, 45/361, Bose Pukur Road, Kolkata -700107
Email : qualissure@gmail.com; info@qualissure.com ; Mob.No. 98312 87086 ; 9830093976



DOC NO : QLS/SAMP/08-C/00

TEST REPORT

Name & Address Of the Customer : M/s. Orissa Metallurgical Industry Pvt. Ltd. Mouza- Amba, Mathurakismat, Vill- Gokulpur, P.O- Shyamraipur, P.S- Kharagpur (L), Paschim Medinipur, West Bengal.	Report No. : QLS/P-34/23-24/C/25C Date : 18.04.2024 Sample No. : QLS/P-34/23-24/25C Date of Performance : 25.03.2024-29.03.2024 Sample Description : Noise Monitoring Ref No. & Date : M 124379552, Dated - 24.02.2024
---	---

Monitoring Result of Noise

Sampling Done By: C.Sahoo			
Sampling Guideline : As per IS: 9876: 1981 (RA-2001)			
Location : Construction Site of SMS & Rolling MILL			
Date of Monitoring : 22.03.2024-23.03.2024			
Time	Lmax dB (A)	Lmin dB (A)	Avg. dB (A)
06.00-07.00	59.0	48.3	52.2
07.00-08.00	60.2	51.0	55.7
08.00-09.00	60.2	52.0	55.1
09.00-10.00	64.3	56.0	61.5
10.00-11.00	65.0	56.1	61.4
11.00-12.00	62.3	55.2	59.0
12.00-13.00	65.8	52.3	58.6
13.00-14.00	62.3	52.3	57.5
14.00-15.00	62.3	51.2	56.9
15.00-16.00	62.3	51.2	56.8
16.00-17.00	65.4	50.3	58.1
17.00-18.00	59.8	51.2	55.6
18.00-19.00	65.2	53.2	57.4
19.00-20.00	64.2	51.0	55.7
20.00-21.00	53.2	52.0	52.6
21.00-22.00	51.3	50.2	50.7
22.00-23.00	51.2	42.3	48.1
23.00-00.00	53.2	47.2	49.1
00.00-01.00	50.2	42.3	46.4
01.00-02.00	48.9	42.3	45.9
02.00-03.00	58.5	46.1	50.3
03.00-04.00	49.8	45.2	47.5
04.00-05.00	49.5	47.1	48.3
05.00-06.00	48.0	45.8	47.2

Leq dB Day Time 59.4	Leq dB Night Time 49.3	Average dB 53.6
--------------------------------	----------------------------------	---------------------------

Report Prepared By:

R. Sharma

for Qualissure Laboratory Services

Reviewed & Authorized By

Benimadhab Gorai, Chemist
(Authorized Signatory)

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

- The results relate only to the item(s) tested.
- This Test Report shall not be reproduced without the permission of Qualissure Laboratory Services.
- The reserved part of sample(s), except perishable sample(s), shall be retained for 30 days from the date of issue of the Test Report.



Qualissure Laboratory Services

361, Prantick Pally, 45/361, Bose Pukur Road, Kolkata -700107
Email : qualissure@gmail.com; info@qualissure.com ; Mob.No. 98312 87086 ; 9830093976



TC-6271

DOC NO : QLS/SAMP/08-C/00

TEST REPORT

Name & Address Of the Customer : M/s. Orissa Metallurgical Industry Pvt. Ltd. Mouza- Amba, Mathurakismat, Vill- Gokulpur, P.O- Shyamraipur, P.S- Kharagpur (L), Paschim Medinipur, West Bengal.	Report No.	: QLS/P-34/23-24/C/25D
	Date	: 18.04.2024
	Sample No.	: QLS/P-34/23-24/25D
	Date of Performance	: 25.03.2024-29.03.2024
	Sample Description	: Noise Monitoring
	Ref No. & Date	: M 124379552, Dated - 24.02.2024

Monitoring Result of Noise

Sampling Done By: C.Sahoo			
Sampling Guideline : As per IS: 9876: 1981 (RA-2001)			
Location : Construction Site of DRI			
Date of Monitoring : 22.03.2024-23.03.2024			
Time	Lmax dB (A)	Lmin dB (A)	Avg. dB (A)
06.00-07.00	57.4	50.2	52.3
07.00-08.00	61.2	52.0	56.9
08.00-09.00	61.2	53.2	55.8
09.00-10.00	64.1	58.2	62.0
10.00-11.00	62.4	55.2	58.8
11.00-12.00	61.2	51.2	56.0
12.00-13.00	61.8	52.3	58.4
13.00-14.00	61.2	53.2	55.8
14.00-15.00	60.3	51.2	57.6
15.00-16.00	63.2	50.3	57.1
16.00-17.00	64.5	54.2	60.1
17.00-18.00	62.3	56.2	59.2
18.00-19.00	60.2	51.2	56.0
19.00-20.00	63.2	52.3	57.5
20.00-21.00	56.0	50.4	52.7
21.00-22.00	53.2	50.4	51.7
22.00-23.00	52.3	49.4	50.4
23.00-00.00	51.2	47.2	48.6
00.00-01.00	49.8	46.0	48.6
01.00-02.00	51.0	47.1	49.1
02.00-03.00	49.8	47.2	48.6
03.00-04.00	51.2	47.5	49.0
04.00-05.00	50.2	46.8	48.5
05.00-06.00	55.2	47.6	50.5

Leq dB Day Time	Leq dB Night Time	Average dB
58.8	49.4	54.2

Report Prepared By:

R. Sharma

for Qualissure Laboratory Services

Reviewed & Authorized By

Benimadhab Gorai, Chemist
(Authorized Signatory)

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

- The results relate only to the item(s) tested.
- This Test Report shall not be reproduced without the permission of Qualissure Laboratory Services.
- The reserved part of sample(s), except perishable sample(s), shall be retained for 30 days from the date of issue of the Test Report.



TEST REPORT

Name & Address Of the Customer : M/s. Orissa Metallurgical Industry Pvt. Ltd. Mouza- Amba, Mathurakismat, Vill- Gokulpur, P.O- Shyamraipur, P.S- Kharagpur (L), Paschim Medinipur, West Bengal.	Report No. : QLS/P-34/23-24/C/26 Date : 18.04.2024 Sample No. : QLS/P-34/23-24/26(A-C) Date of Performance : 25.03.2024-29.03.2024 Sample Description : Noise Monitoring Ref No. & Date : M 124379552, Dated - 24.02.2024
--	--

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	22-23.03.2024	Narayanpur Village	51.6	44.1
26B		Gokulpur Village	51.5	42.3
26C		Panchrular Village	52.4	43.5

Report Prepared By:

R. Sharma

for Qualissure Laboratory Services
Reviewed & Authorized By

Benimadhab Gorai
Benimadhab Gorai, Chemist
(Authorized Signatory)

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

- The results relate only to the item(s) tested.
- This Test Report shall not be reproduced without the permission of Qualissure Laboratory Services.
- The reserved part of sample(s), except perishable sample(s), shall be retained for 30 days from the date of issue of the Test Report.

HEAT STRESS LEVEL MONITORING REPORT OF

M/s. ORISSA METALLURGICAL INDUSTRY PVT. LTD

**Village-Gokulpur, P.O.-Shyamraipur, P.S.-Kharagpur (U),
Dist.-West Midnapore, (W. B.), PIN-721 301**

NOVEMBER - 2023

PREPARED BY:

INDICATIVE CONSULTANT INDIA

H.P.L Link Road, Basudevpur, P.O.-Khanjanchak, Haldia,
Dist. - Purba Medinipur, PIN - 721 602.

☎ (03224) 275765

Website: www.indicativeconsultantindia.com



INDICATIVE CONSULTANT INDIA

Name of the Factory	:	M/s. ORISSA METALLURGICAL INDUSTRY PVT. LTD. Village - Gokulpur, P.O. - Shyamraipur, P.S. - Kharagpur (L), Dist. - West Midnapore, (W. B.), PIN-721 301.
Date of Execution of job	:	29.11.2023

1.0 HEAT STRESS CONDITION is mostly the result of effective and suitable provisions in every factory for securing and maintaining the adequate ventilation in every workroom by circulation of fresh air and such a temperature as well secure to workers therein reasonable condition of comfort and prevent injury to health.

M/s. INDICATIVE CONSULTANT INDIA has been asked to carry out the survey of the Heat Stress condition as per the provision of Sections 19A of the Factories Act, 1948. Accordingly, the monitoring has been conducted with the use of Portable monitoring instruments.

The entire fieldwork was completed within the period of 29.11.2023. The Result of Heat Stress Condition has been *in Table No. 1 to 4*.

2.0 DISCUSSION :

Results as indicated in Form No. 30, which is, annexed herewith reveals the following facts.

- i) *Results of Heat Stress conditions are within the acceptable limit at measured locations: (TABLE: 1 to 4).*



3.0 RECOMMENDATION:

- i) *There is no recommendation with respect to heat stress measurement at the plant designated area*

4.0 ACKNOWLEDGEMENT:

- i) *Mr. Natabara Biswal (AGM-Environment & Pollution)*
ii) *Mr. Ram Kishore Verma (Manager- Environment & Pollution)*
iii) *All Staff of M/s. ORISSA METALLURGICAL INDUSTRY PVT. LTD., Village-Gokulpur, P.O. - Shyamraipur,
P.S. - Kharagpur (L), Dist. - West Midnapore, (W. B.), PIN - 721 301.*
iv) *All Security Staff.*

We acknowledge our sincere thanks and gratitude to the above persons for their co-operation and help to our sampling team during the survey work.

For, INDICATIVE CONSULTANT INDIA



Parbati Golui

Competent Person under Factories Act 1948, Section 36



INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevpur, Khanjanchak, Haldia, Purba Medinipur-721602

Register Containing Particulars of Testing of **HEAT STRESS**

TABLE NO. – 1


Name of Customer – **M/s. ORISSA METALLURGICAL INDUSTRY PVT. LTD.**

Address: **Village-Gokulpur, P.O-Shyamraipur, P.S-Kharagpur (L), Dist-West Midnapore (W.B.), Pin-721301**

Name of the plant/Department – **DRI-1& 2, COOLER DISCHARGE AREA (350 TPD)**

$WBGT^{\circ}C = 0.7 WB + 0.3 GT$

AMBIENT TEMPERATURE	
Dry Bulb	Wet Bulb
25.0°C	17.0°C
Wind Velocity: 144 m/min North to South	

Sl. No.	Location	Date & Time of Monitoring	Sampling Instrument Use	Dry bulb Temperature (DB)	Wet bulb Temperature (WB)	Globe Temperature (GT)	WBGT °C	Limit TLV °C	Reference Method	Remarks	Signature	Name
1.	DRI 1& 2-COOLER DISCHARGE AREA (350 TPD)	29.11.2023 11:00 AM to 11:45 AM	<i>Annexure-I</i>	27°C	18°C	22°C	19.2°C	32.2°C	<i>Annexure-I</i>	<i>Below TLV Limit</i>		P. Choudhury

For, INDICATIVE CONSULTANT INDIA


Parbati Golui
Authorized Signatory

1/4

INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevpur, Khanjanchak, Haldia, Purba Medinipur-721602

Register Containing Particulars of Testing of **HEAT STRESS**

TABLE NO. - 2

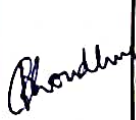
Name of Customer - **M/s. ORISSA METALLURGICAL INDUSTRY PVT. LTD**

Address: **Village-Gokulpur, P.O-Shyamraipur, P.S-Kharagpur (L), Dist-West Midnapore (W.B.), Pin-721301**

Name of the plant/Department - **DRI Between 3 & 4, KILN AREA (500 TPD)**

$WBGT^{\circ}C = 0.7 WB + 0.3 GT$

AMBIENT TEMPERATURE	
Dry Bulb	Wet Bulb
25.0°C	17.0°C
Wind Velocity: 132 m/min North to South	

Sl. No.	Location	Date & Time of Monitoring	Sampling Instrument Use	Dry bulb Temperature (DB)	Wet bulb Temperature (WB)	Globe Temperature (GT)	WBGT °C	Limit TLV °C	Reference Method	Remarks	Signature	Name
1.	DRI between 3& 4- KILN AREA (500 TPD)	29.11.2023 12:00 PM to 01:00 PM	<i>Annexure- I</i>	31°C	20°C	25°C	21.5°C	32.2°C	<i>Annexure- I</i>	<i>Below TLV Limit</i>		P. Choudhury

For, INDICATIVE CONSULTANT INDIA

Parbati Ghosh
Authorized Signatory



INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevpur, Khanjanchek, Haldia, Purba Medinipur-721602

Register Containing Particulars of Testing of HEAT STRESS

TABLE NO. - 3


Name of Customer - M/s. ORISSA METALLURGICAL INDUSTRY PVT. LTD

Address: Village-Gokulpur, P.O-Shyamraipur, P.S-Kharagpur (L), Dist-West Midnapore (W.B.), Pin-721301

Name of the plant/Department - DRI-1&2, KILN AREA (350 TPD)

WBGT °C = 0.7 WB + 0.5 GT

AMBIENT TEMPERATURE	
Dry Bulb	Wet Bulb
26.0°C	18.0°C
Wind Velocity: 144 m/min North to South	

Sl. No.	Location	Date & Time of Monitoring	Sampling Instrument Use	Dry bulb Temperature (DB)	Wet bulb Temperature (WB)	Globe Temperature (GT)	WBGT °C	Limit TLV °C	Reference Method	Remarks	Signature	Name
1.	DRI-1&2, KILN AREA (350 TPD)	29.11.2023 02:00 PM to 02:50 PM	Annexure-I	32°C	21°C	25°C	22.2°C	32.2°C	Annexure-I	Below TLV Limit		P. Choudhury

For, INDICATIVE CONSULTANT INDIA


Parbat Golui
Authorized Signatory



INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevpur, Khanjanchak, Haldia, Purba Medinipur-721602

Register Containing Particulars of Testing of HEAT STRESS

TABLE NO. - 4

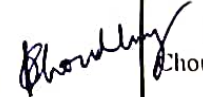
Name of Customer - M/s. ORISSA METALLURGICAL INDUSTRY PVT. LTD

Address: Village-Gokulpur, P.O-Shyamraipur, P.S-Kharagpur (L), Dist-West Midnapore (W.B.), Pin-721301

Name of the plant/Department - BOILER AREA (3&4)

$WBGT^{\circ}C = 0.7 WB + 0.3 GT$

AMBIENT TEMPERATURE	
Dry Bulb	Wet Bulb
26.0°C	18.0°C
Wind Velocity: 138 m/min North to South	

Sl. No.	Location	Date & Time of Monitoring	Sampling Instrument Use	Dry bulb Temperature (DB)	Wet bulb Temperature (WB)	Globe Temperature (GT)	WBGT °C	Limit TLV °C	Reference Method	Remarks	Signature	Name
1.	BOILER AREA (3&4)	29.11.2023 03:00 PM to 04:00 PM	Annexure- I	29°C	18°C	22°C	19.2°C	32.2°C	Annexure- I	Below TLV Limit		P. Choudhury

For, INDICATIVE CONSULTANT INDIA


Parbati Ghosh
Authorized Signatory



ANNEXURE - 1

1. RAW MATERIAL : *Coal, Iron Ore, Pellets*

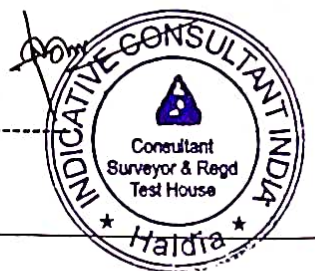
2. BY PRODUCT : *Dolochar*

3. FINISH PRODUCT : *Spong Iron*

4. INSTRUMENTS USED:

The following standard instrument utilised during the entire survey period and the instrument are calibrated.

- i) *Hydrometer / Dry Bulb- Wet Bulb Temperature Indicator Meter*
- ii) *Anemometer*
- iii) *Globe Thermometer*



FORM NO. 17

HEALTH

1. Serial No. in the Register of adult worker : OMP/10001 [Prescribed under Rules 63 & 94 of The West Bengal Factories Rules, 1958]

2. Name of worker : Anjan Gosh

3. Sex : M 4. Date of Birth : 98/04/1996

1	2	3	4	5	6	7	8	9
Department works	Name of hazardous process	Dangerous process/ operation	Nature of job or occupation	Rare materials, products or by products likely to be exposed to	Date of posting	Date of transfer to other work	Reason for discharge transfer to other work	Signs and symptoms observed during examination
GET - ME					5/12/22			

REGISTER

as amended vide Notification No. 1183-LW-10-391 dated 27th Nov. 1991

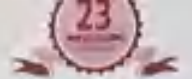
No. 28

Examination and the results thereof				If diagnosed unfit for work		
Nature of tests & results obtained	Period of absence from that work	Reason for such absence	Date of returning to that work	Date of returning to that work	Date of returning to that work	Signature with date of the Examination (Signature / Name of the Doctor)
BP - 110/70 PR - 98 HT - 72 kg weight - 5'11" BMI - 22.24 Anion - nil Blood Group - O+	11		13	14	15	<u>[Signature]</u> [Name of the Doctor] (Primary Medical Officer)
Uric - 15.2 mg/dl Sugars (R) - 115.0 mg/dl Both are being sent to Lab. OAS - very report - All parameters are normal.						



ASTHA

DIAGNOSTIC & ANALYTICAL CENTER



Rabindra nagar
Midnapore

Ph. No.: 9734473344

E-mail: astha.labmedinipur@yahoo.in

Name : ANKAN GHOSH	Ref-by Dr. : O. H. C.
Lab. SL. No : 1183(20)	Date of receipt : 01.02.2024
Age : 27 Yrs. Sex : Male	Date of report : 01.02.2024

EXAMINATION OF BLOOD

INVESTIGATION	RESULT	UNIT	NORMAL VALUE
---------------	--------	------	--------------

HAEMOGLOBIN: (cyanmethaemoglobin)	13.2	gm/dl.	12 - 18
--------------------------------------	------	--------	---------

BLOOD GLUCOSE : RANDOM (R)	: 118.0	mg/dl.	70 - 140
-------------------------------	---------	--------	----------

End of report

(Patient's identification not verified and sample is collected and supplied from outside)

Dr. P.K. Giri

M.B.B.S. (Cal), DCP (Cal)



Verified By

Dr. T.K. Chakraborty

M.B.B.S (Gold Medalist), M.D. (Path, F.I.S.H.(USA)

EX-Lecturer of Pathology, Govt. of West Bengal

This report is not in medico legal purpose.

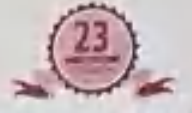


Scanned with OKEN Scanner



ASTHA

DIAGNOSTIC & ANALYTICAL CENTER



Rabindra nagar
Midnapore
Ph. No.: 9734473344
E-mail: astha.labmedinipur@yahoo.in

Name : ANKAN GHOSH	Ref-by Dr. : O. H. C.
Lab. SL. No : 1183(20)	Date of receipt : 01.02.2024
Age : 27 Yrs. Sex : Male	Date of report : 01.02.2024

EXAMINATION OF BLOOD

<u>INVESTIGATION</u>	<u>RESULT</u>
<u>GROUP :</u>	"O"
<u>ABO GROUPING :</u>	Positive (+Ve).
<u>Rh(D) TYPING :</u>	

End of report

(Patient's identification not verified and sample is collected and supplied from outside)

Dr. P.K. Giri
M.B.B.S. (Cal), DCP (Cal)

Verified By

Dr. T.K. Chakraborty
M.B.B.S (Gold Medalist), M.D. (Path, F.I.S.H.(USA)
EX-Lecturer of Pathology, Govt. of West Bengal

This report is not in medico legal purpose.



ASTHA

DIAGNOSTIC & ANALYTICAL CENTER

Rabindra nagar
Midnapore
Ph. No.: 9734473344
E-mail: astha.labmedinipur@yahoo.in

Name : ANAKAN GHOSH	Ref-by Dr. : O. H.C
Age :- 27 yrs.	Sex : Male
	Date of receipt : 01.02.2024
	Date of report : 01.02.2024

X-RAY REPORT CHEST PA VIEW

1. The lung are well expanded and no active lung parenchymal lesion seen.
2. Both costophrenic angles are clear.
3. Both domes of diaphragm are normal in position and contour.
4. Cardio thoracic ratio & any bony thorax appear normal.
5. The hila and mediastinum are normal.
6. The hila and mediastinum are normal.
7. Bony cage and soft tissue are unremarkable.

PLEASE CORRELATE CLINICALLY

S. Nayak
DR. S. NAYAK
M.B.B.S (CONSULTANT RADIOLOGIST)
REG NO : - 78761 WBMC



ASTHA DIAGNOSTIC CENTRE, RABINDRANAGAR MIDNAPORE
Ref. By - DR. O. H. C
Male
10/03/2024
10:00 AM

15/15 Rabindranagar, Near Rabindranagar Durga Puja Mandap
Paschim Midnapore – 721101 Contact No: 9073995462

Name: Mr. Ankan Ghosh

Date: 01/02/2024

Age / Sex: 27 Years/Male

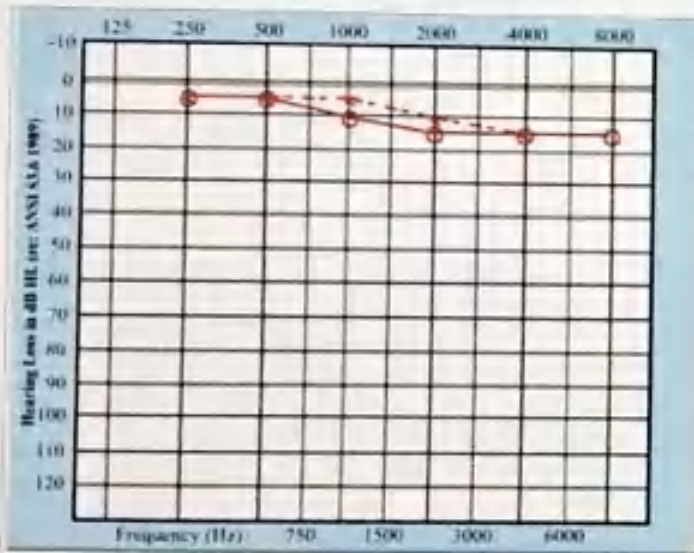
Referred By: O.M.I.P.L.(Reshmi Metaliks)

Case History: Hearing check-up.

AUDIOGRAM

Right Ear

Left Ear



PTA: Right Ear: 10.00 dBHL

PTA: Left Ear: 8.33 dBHL

Provisional Diagnosis:

Right Ear: Hearing sensitivity within normal limits.

Left ear: Hearing sensitivity within normal limits.

Recommendations:

Aural hygiene

Periodic Audiological follow-up



AUDIOLOGIST

FORM NO. 17

1. Serial No. in the Register of such workers : 0111/1011
 2. Name of worker : AMIT KUMAR LARV
 3. Sex : M 4. Date of Birth : 05/11/1999

HEALTH

(Prescribed under Rules 65 & 64 of The West Bengal Factories Rules, 1958)

Department works	1	2	3	4	5	6	7	8	9
	Name of hazardous process	Dangerous nature operation	Nature of job or occupation	How incidents, products or by-products likely to be absorbed in	Date of posting	Date of leaving worker in case of exit	Reason for discharge/ transfer to other unit	Signs and symptoms noticed during examination	Report
DET/ Cer. Dept/ Mech.					14/10/ 2023				

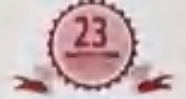
REGISTER

as amended vide Notification No. 1183-LW-IB-191 dated 27th Nov. 1991)

Examination and the results thereon									
10	11	12	13	14	15	16			
Nature of tests & results thereof	Result thereon	Period of absence from the work	Reasons for such absence	Date of returning to the work	Date of leaving from Certificate	Signature of the Factory Medical Officer in Charge in English			
W.H. 70 kg H- 5'2" BP - 120/80 PR- 76 G.M.S - 28.22 (Normal-NFI) E. 4000 - 0.7 Hb - 12.8 gm/dl Lymphocytes - 55.0 % of all Leukocytes - 10000 Both - are healthy & healthy subnormal. Cholesterol - 160 mg/dl All parameters are normal.						<i>[Signature]</i> Dr. [Name] Factory Medical Officer			



ASTHA



Rabindra nagar
Midnapore

Ph. No.: 9734473344

E-mail: astha.labmedinipur@yahoo.in

DIAGNOSTIC & ANALYTICAL CENTER

Name : AMIT KR. LARU	Ref-by Dr. : O. H. C.
Lab. SL. No : 1183(12)	Date of receipt : 01.02.2024
Age : 24 Yrs. Sex : Male	Date of report : 01.02.2024

EXAMINATION OF BLOOD

INVESTIGATION	RESULT	UNIT	NORMAL VALUE
HAEMOGLOBIN: (cyanmethaemoglobin)	12.8	gm/dl.	12 - 18
BLOOD GLUCOSE : RANDOM (R)	: 98.0	mg/dl.	70 - 140

End of report

(Patient's identification not verified and sample is collected and supplied from outside)

Dr. P.K. Giri

M.B.B.S. (Cal), DCP (Cal)

Verified By

Dr. T.K. Chakraborty

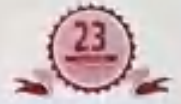
M.B.B.S (Gold Medalist), M.D. (Path, F.I.S.H.(USA)
EX-Lecturer of Pathology, Govt. of West Bengal

This report is not in medico legal purpose.



ASTHA

DIAGNOSTIC & ANALYTICAL CENTER



Rabindra nagar
Midnapore

Ph. No.: 9734473344

E-mail: astha.labmedinipur@yahoo.in

Name : AMIT KR. LARU	Ref-by Dr. : O. H. C.
Lab. SL. No : 1183(12)	Date of receipt : 01.02.2024
Age : 24 Yrs. Sex : Male	Date of report : 01.02.2024

EXAMINATION OF BLOOD

INVESTIGATION

RESULT

GROUP :

ABO GROUPING :

Rh(D) TYPING :

"O"

Positive (+Ve).

End of report

(Patient's identification not verified and sample is collected and supplied from outside)

Dr. P.K. Giri

M.B.B.S. (Cal), DCP (Cal)

✓
Verified By

Dr. T.K. Chakraborty

M.B.B.S (Gold Medalist), M.D. (Path, F.I.S.H. (USA)
EX-Lecturer of Pathology, Govt. of West Bengal

This report is not in medico legal purpose.



ASTHA

DIAGNOSTIC & ANALYTICAL CENTER

Rabindra nagar

Midnapore

Ph. No.: 9734473344

E-mail: astha.labmedinipur@yahoo.in

Name : AMIT KR. LARU	Ref-by Dr. : O. H.C
Age :- 24 yrs.	Sex : Male
	Date of receipt : 01.02.2024
	Date of report : 01.02.2024

X-RAY REPORT CHEST PA VIEW

1. The lung are well expanded and no active lung parenchymal lesion seen.
2. Both costophrenic angles are clear.
3. Both domes of diaphragm are normal in position and contour.
4. Cardio thoracic ratio & any bony thorax appear normal.
5. The hila and mediastinum are normal.
6. The hila and mediastinum are normal.
7. Bony cage and soft tissue are unremarkable.

PLEASE CORRELATE CLINICALLY

S. Nayak
DR. S. NAYAK
M.B.B.S (CONSULTANT RADIOLOGIST)
REG NO : - 78761 WBMC



15/15 Rabindranagar, Near Rabindranagar Durga Puja Mandap
Paschim Midnapore - 721101 Contact No: 9073995462

Name: Mr. Amit Kumar Laru

Date: 01/02/2024

Age / Sex: 24 Years/Male

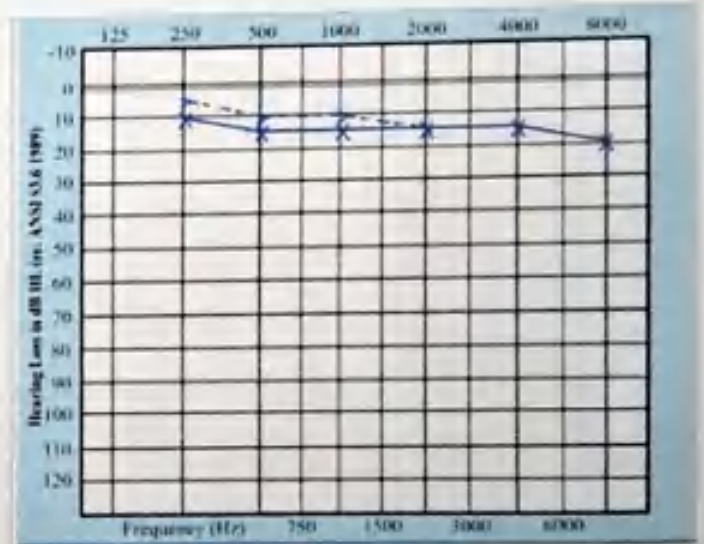
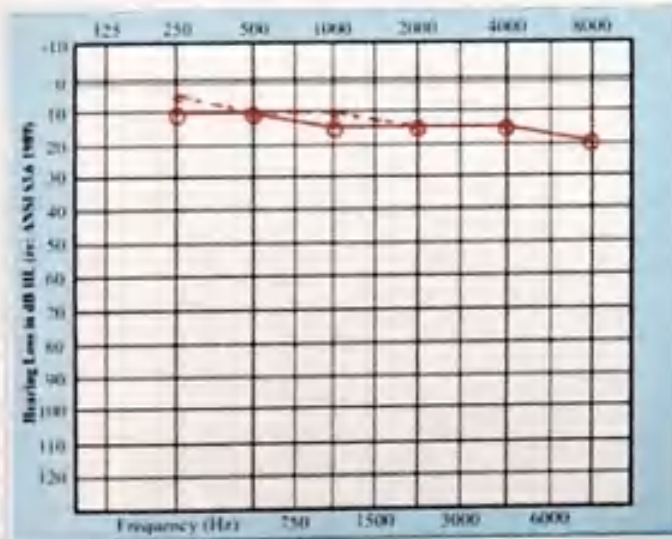
Referred By: O.M.I.P.L(Reshmi Metaliks)

Case History: Hearing check-up.

AUDIOGRAM

Right Ear

Left Ear



PTA: Right Ear: 13.33 dBHL

PTA: Left Ear: 15.00 dBHL

Provisional Diagnosis:

Right Ear: Hearing sensitivity within normal limits.

Left ear: Hearing sensitivity within normal limits.

Recommendations:

Aural hygiene

Periodic Audiological follow-up



AUDIOLOGIST



ASTHA

DIAGNOSTIC & ANALYTICAL CENTER



Rabindra nagar
Midnapore

Ph. No.: 9734473344

E-mail: astha.labmedinipur@yahoo.in

Name : SHYAMAGHAN KUANR	Ref-by Dr. : O. H. C.
Lab. SL. No : 1183(2)	Date of receipt : 01.02.2024
Age : 30 Yrs. Sex : Male	Date of report : 01.02.2024

EXAMINATION OF BLOOD

INVESTIGATION	RESULT	UNIT	NORMAL VALUE
---------------	--------	------	--------------

HAEMOGLOBIN: (cyanmethaemoglobin)	13.0	gm/dl.	12 – 18
--------------------------------------	------	--------	---------

BLOOD GLUCOSE : RANDOM (R)	: 112.0	mg/dl.	70 – 140
-------------------------------	---------	--------	----------

End of report

(Patient's identification not verified and sample is collected and supplied from outside)

Dr. P.K. Giri

M.B.B.S. (Cal), DCP (Cal)

Verified By

Dr. T.K. Chakraborty

M.B.B.S (Gold Medalist), M.D. (Path, F.I.S.H. (USA)
EX-Lecturer of Pathology, Govt. of West Bengal

This report is not in medico legal purpose.



Scanned with OKEN Scanner



ASTHA

DIAGNOSTIC & ANALYTICAL CENTER



Rabindra nagar
Midnapore

Ph. No.: 9734473344

E-mail: astha.labmedinipur@yahoo.in

Name : SHYAMAGHAN KUANR	Ref-by Dr. : O. H. C.
Lab. SL. No : 1183(2)	Date of receipt :01.02.2024
Age : 30 Yrs. Sex : Male	Date of report : 01.02.2024

EXAMINATION OF BLOOD

INVESTIGATION

RESULT

GROUP :

ABO GROUPING :

Rh(D)TYPING :

"O"

Positive (+Ve).

End of report

(Patient's identification not verified and sample is collected and supplied from outside)

Dr. P.K. Giri

M.B.B.S. (Cal), DCP (Cal)

Verified By

Dr. T.K. Chakraborty

M.B.B.S (Gold Medalist), M.D. (Path, F.I.S.H.(USA)
EX-Lecturer of Pathology, Govt. of West Bengal

This report is not in medico legal purpose.





ASTHA

DIAGNOSTIC & ANALYTICAL CENTER

Rabindra nagar
Midnapore
Ph. No.: 9734473344
E-mail: astha.labmedinipur@yahoo.in

Name : SHYAMAGHAN KUNAR	Ref-by Dr. : O. H.C
Age :- 30 yrs.	Sex : Male
	Date of receipt : 01.02.2024
	Date of report : 01.02.2024

X-RAY REPORT CHEST PA VIEW

1. The lung are well expanded and no active lung parenchymal lesion seen.
2. Both costophrenic angles are clear.
3. Both domes of diaphragm are normal in position and contour.
4. Cardio thoracic ratio & any bony thorax appear normal.
5. The hila and mediastinum are normal.
6. The hila and mediastinum are normal.
7. Bony cage and soft tissue are unremarkable.

PLEASE CORRELATE CLINICALLY

S. NAYAK
DR. S. NAYAK
M.B.B.S (CONSULTANT RADIOLOGIST)
REG NO : - 78761 WBMC

R



AMAGHAN KUNAR , 30 YRS

Male

58.7 %

PA

01/02/2024

Ref. By - DR. O. H. C

ASTHA DIAGNOSTIC CENTRE, RABINDRANAGAR MIDNAPORE

