

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

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 <bisyapen.srivastava@rashmigroup.com>, Abhay Gupta <abhay.gupta@orissametaliks.com>, ompl1.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,

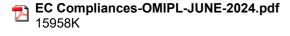
Yours Faithfully

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



ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

CIN: U27209WB2019PTC234381

E-mail: info.omipl@orissametaliks.com

Ref.: OMIPL/EC_COMPL/JUN24 **Date:** 29.05.2024

To,

a) Regional Office,

Ministry of Environment, Forests & Climate Change, Bhubaneswar A/3 Chandersekharpur, 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:

- 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.
- 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

Director/Authorized Signatory

Authorized Signatory

REGISTERED OFFICE: ROOM NO. - 3B, 1 GARSTIN PLACE, KOLKATA - 700 001 🕿 +91 33 2243 8517 - 20 FACTORY ADDRESS: GOKULPUR, P.O - SHYAMRAIPUR, DIST - PASCHIM MEDINIPUR

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.

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Director/Authorizéd Signatory

Six monthly compliance status reports of the conditions stipulated in environmental clearance for the period of October 2023 to March 2024 (June $1^{\rm st}$ 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

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

- 1. EC 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

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

S. No.	Specific Condition	Compliance Status			
	The project proponent shall	Agreed and noted for compliance.			
	comply with all the				
	environmental protection	The project is still in construction phase.			
	measures and safeguards	Only $2 \times 350 + 2 \times 500$ TPD DRI along			
	proposed in the documents	with WHRB based CPP 60 MW is in			
	submitted to the Ministry. All the	operation after obtaining valid CTO from			
	recommendations made in the	WBPCB.			
i.	EIA/EMP in respect of				
	environmental management, and	All the environmental protection			
	risk mitigation measures relating				
	to the project shall be	, ,			
	implemented.	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.			
	The project proponent shall	Consent obtained for $2 \times 350 + 2 \times 500$			
ii.	utilize modern technologies for				
	capturing of carbon emitted and	MW dated on 17.10.2023. Waste gases			

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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.

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.

Rejects from coal washery shall only be used either in the captive power plant (or) in the Thermal Power Plants meeting emission standards. Agreed and noted for compliance.

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

iii.

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			facilities and change in configuration of
			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.
	Soli	d 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	Agreed and will be complied. 3 x 40 TPH Slag crushing unit adopted for metal recovery from slag and all other guidelines will be complied.
iv.	and as lime in cement making.	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.
	b.	PP shall recycle/reuse solid	Agreed and Being complied.
		waste generated in the plant as far as possible.	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
			brick making. TCLP test of dolochar is enclosed as Annexure-I .
	c.	Used refractories shall be	Agreed and noted for compliance.
		recycled as far as possible.	Defunction have been been been
			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
<u> </u>		THE ORIGINAL PROPERTY PRIVATE	THE STATE OF BOATA VIAC CTO HOT

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	Cintan Diant shall be actioned	C0144053 dated 17.10.2023. The life of the refectories is 02 years (on and average). The used refectories 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 noi, 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 m³), 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

		so 2 x 500 TPD + 2 x 350 TPD DRI plant is commissioned and SMS & Rolling mill under construction phase.	
		As stated in point noi, the validity of the EC is not expired the EC accorded blast furnace will be implemented in phase manner.	
	Basic Oxygen Furnace (BOF) gas shall be cleaned dry.	Agreed and noted for compliance. Basic Oxygen Furnace (BOF) has not been implemented yet. The said condition will be complied once the project comes in operation.	
ix.		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 novii, 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.	
x.	EAF shall be closed type and fourth hole extraction system shall be included for fume control from these furnaces	Not applicable. 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.	
	85-90% of billets shall be rolled directly in hot stage. RHF shall operate using only Light Diesel Oil or Mixed BF/CO gas/Producer gas.	Agreed and will be complied once the project comes in operation. Currently no M.S. Billets is being manufactured.	
xi.		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.	

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

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xii.	Cold Rolling Mill (CRM), color coating and galvanizing plants shall have CETP to treat and recycle the treated water from CRM complex. Sludge generated at CRM ETP shall be sent to TSDF. Acid recovery plant shall be provided in CRM.	Agreed and will be complied once the project comes in operation. The project is still in construction phase. As stated in point noi, 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.
xiii.	Dust emission from Steel Plant stacks shall be up to 30 mg/Nm ³ .	Agreed and is being/will be 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/Nm ³ . CEMS data and latest stack emission report carried by NABL accredited laboratory on 04.11.2023 is enclosed as Annexure-II & III respectively.
xiv.	Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Regional Office of the MoEF&CC.	Agreed and noted for compliance. 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.
	FOR ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED	Also as stated in EMP plan and Condition xiv of EC dated 11.10.2022, 'Performance

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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 already enclosed as Annexure-II & III respectively. Recuperator shall be installed to Agreed and noted for compliance. recover heat from BF stove Blast furnace has not been implemented waste gas and used for stove gas yet. Recuperator will be installed to reheating reducing requirement recover heat from BF stove waste gas. of fuel gas. The said condition will be taken care of at the time of finalizing the plant/process design. XV. Currently, company has decided manufacture steel from DRI-SMS route, so $2 \times 500 \text{ TPD} + 2 \times 350 \text{ TPD}$ 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. Is being complied with. The company shall also undertake rain water harvesting harvesting Rainwater structure measures as per the plan proposed for the plant and has already reduce water submitted and been implemented for EC accorded dependence from the outside project. source. 02 nos Rain water harvesting ponds exists in the plant premises. xvi. **RAIN WATER HARVESTING STRUCTURE**

Total area demarcated for rain water harvesting is 20.90 acres. 85% of Agreed and the said condition will be raw materials and goods complied. finished shall be transported by dedicated railway In-principal approval for setting up the siding facility. In the event of proposed private railway siding has been establishment delav in obtained from South Eastern Railway vide dedicated railway line, PP shall letter no. GW/1/OMIPL-NWOSC(IPA)/159 use another railway siding facility dated 08.08.2022. Also ESP, SIP & OHE of Rashmi Group. and construction clearance approval obtained from Indian Railway. Construction work already started. xvii. RAILWAY SIDING UNDER CONSTRUCTION Currently raw material and finished goods are being transported by 03 nos. private siding of Rashmi group (RML, OMPL & OASPL). The total water requirement of Agreed and being complied. 13,200 KLD will be obtained from The raw water would be sourced from Kansabati River & rain water Kansabati river (13,200 KLD @ 342 days) harvesting structure. No ground and Rain Water Harvesting pond (13,200 water abstraction is permitted. @ 23 days). Water permission obtained from Irrigation & water Department, West Bengal from Kansai River Bed (22,248 KLD for 08 xviii. 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.). into consideration After taking the interest and financial share cost, laying of LLURGICAL INDUST For ORISSA MET pipeline, infrastructure development for

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		water project had been done by holding company for meeting the water demand		
	of M/s Orissa Metallurgical Industry 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.		
	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	Agreed and being complied. As stated in point xvi rainwater harvesting structure is already implemented. The plant is being designed as ZLD and		
xix.	be disturbed. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil	no waste water will be discharge outside the plant premises. The drainage conservation scheme, soil conservation scheme and multiple erosion		
	conservation scheme and multiple Erosion control measures shall be implemented.	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.		
	Air cooled condensers shall be used in the Power plant. 100%	Agreed and Being complied with.		
	consumption of Dolo char in CFBC based boiler.	Air Cooled Condensers (ACCs) are installed with WHRB based CPP. Currently dolochar being used in CFBC based Boiler		
xx.		of associate company.		
xxi.	Ultralow NOx burner with three stage combustion, flue gas recirculation and auto combustion control system shall	Agreed and noted for compliance. Currently 60 MW WHRB based Power plant is in operation. In parallel with		

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	be used.	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.
	Energy efficient drives, VFD for auxiliary motors, slip power	Being complied with.
xxii.	recovery for motors above 1000 KW shall be provided.	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.
	Ventilation system for odour	Not applicable as Ductile Iron pipe unit is
xxiii.	control in bitumen coating area shall be included.	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.
xxiv.	A proper action plan must be implemented to dispose of the electronic waste generated in the Industry.	Agreed and being complied with. 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).
xxv.	Three tier Green Belt shall be developed in a time frame of one year with native species all along	Agreed and Noted. As per EC dated 11.10.2022 1,22,750 nos. saplings to be planted on land

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

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	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.	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 31 st 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 enclosed as Annexure-IV .		
xxvi.	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.	Greening and Paving being done in parallel with implementation of the project. Green belt development with photograph detail is already enclosed as Annexure-IV.		
xxvii.	The coal dust to be measured at coal handling areas, ball mills, furnace charging areas through personal and area monitoring and to be compared and it should be within 2 mg/m³, respirable dust fraction containing less than 5% quartz as per Indian Factories Act, 1948.	Is being complied with. 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 Dec2023 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 .		
xxviii.	The proposed project shall be designed as "Zero Liquid Discharge" Plant. There shall be no discharge of effluent from the plant. Domestic waste water will be treated in STP and treated	Agreed and being complied with. 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		

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constructed and connected to pit.

be re-used for (ZLD). Treated domestic water shall discharge wastewater will be used for greenbelt areenbelt development and plantation and dust suppression. development and dust suppression. All internal road and connecting Agreed and being complied. road from project site to main Project is still in construction phase and highway shall be developed and only 2 x 500 TPD + 2 x 350 TPD DRI maintained with suitable Million plant is under operation. Axle Standard (MSA) as per the traffic load due to existing and Plant internal roads are being developed proposed project. All plant roads in parallel with implementation of the shall be paved and industrial project industrial and an vacuum cleaners shall be used to cleaner/swipper machine is being used to clean the roads regularly. clean the roads regularly. MSA of maintain designed To Zilla Parishad Road, following measures are adopted: 1. Maintenance/repairing of the road is done in consultation with local xxix. 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. Mechanical sweeping movable water Machine tanker All stockyards shall be having Agreed and noted for compliance. impervious flooring and shall be Project is still in construction phase and equipped with water spray only 2 x 500 TPD + 2 x 350 TPD DRI system for dust suppression. plant is under operation. Stock yards shall also have XXX. garland drains to trap the run off As on April 2024, impervious flooring with material. water spraying system is in place in DRI plant area. Temporary Garland drain is

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Free Sapling Distribution

xxxi.	The project proponent shall undertake village adoption and develop a robust action plan to develop the villages in model villages.	Being complied with in a time bound manner. 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.
xxxii.	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.	Agreed and being complied at time bound manner. 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, Khosalchak, Latibpur and Nandarchak and will develop the facilities within the villages as per need base assessment.

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Promotion of Sports



Construction of Community Center



Construction of Community Prayer
Center

xxxiii.

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 State Pollution the Control Boards (SPCBs)/Pollution Control Committees (PCCs) 30/06/2022 ensure the to compliance Notification of published by Ministry 12/08/2021. technical The

Agreed and 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.

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guidelines issued by the CPCB in this regard available at is https://cpcb.nic.in/technicalguidelines-3/. All the project proponents are hereby requested 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 Notification published by this Ministry on 12/08/2021. report, along with photographs, on the measures taken shall also be included in the six-monthly compliance report being submitted by the project proponents.



xxxiv.

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.

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.

xxxv.

Noted.

02 nos. ponds are developed as rain water harvesting pond and water is stored and used for dust suppression & green belt development.

Agreed and Being complied with.

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),

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- 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.

Agreed and 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

project proponent adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag electrostatic houses), precipitators, combustion oxidizers), systems (thermal 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.

xxxvi.

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- 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.







ESP with Rotary kiln-1

ESP with Rotary kiln-2





ESP with Rotary kiln-3

ESP with Rotary kiln-4





Bag filter with Cooler discharge 1 & 2

Bag filter with Cooler discharge 3 & 4





Bag Filter with House Building

Bag Filter with Separation Product

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S.	General Conditions	Compliance Status
No.		
I. S	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.

Subordinate legislations, etc.as may be applicable to the project.

II. Air quality monitoring and preservation

The project proponent shall continuous install 24x7 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.

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.**

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:

Location	PM_{10}	PM _{2.5}	SO ₂	NO_X	CO
Location	$(\mu g/m^3)$	$(\mu g/m^3)$	$(\mu g/m^3)$	$(\mu g/m^3)$	$(\mu g/m^3)$
Near Plant	79.0	46.0	8.5	30.1	675
Main Gate	73.0	40.0	0.5	30.1	0/3
Narayanpur	53.0	30.0	5.0	22.4	435
Village	55.0	30.0	5.0	22.4	433
Benasole	55.0	33.0	5.5	24.7	481
Village	33.0	33.0	5.5	24.7	401
Ghorachalk	52.0	28.0	5.8	25.8	446
Village	32.0	20.0	5.0	23.0	440

Latest Ambient Air Quality Monitoring Analysis reports carried by NABL/MoEF accredited lab are attached in as **Annexure – VII**.

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**.

Being Complied with.

The project proponent shall monitor fugitive emission in the plant premises at least once in every quarter

Fugitive Emissions have been monitored in quarterly basis by NABL accredited laboratory.

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i

ii

through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.

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 agency Greenvision, Durgapur monitoring 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 Construction reservoir; of DRI and Construction of Railway Siding by third party Qualissure monitoring agency Laboratory Services, Kolkata which is NABL accredited laboratory. As per monitoring reports (March 2024), emission levels are as follows:

S. No.	Location	TSPM (µg/m³)
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

Fugitive Emissions monitoring report of Dec 2023 & March 2024 is enclosed as **Annexure-VIII**.

Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions.

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Agreed and being complied.

The project is still in construction phase. Only $2 \times 350 + 2 \times 500$ 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 used at quenching tower, other proposed stacks as per CPCB guidelines.

- 0000 A

iii

		Agreed and being complied.
iv	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all	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
	vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.	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.
V	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	Agreed and 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.
		Agreed and being complied.
		❖ Dedicated 02 Nos. water spraying tankers
		are in use in construction phase. 01 No. more will be procured and will be used.
vi		❖ Dedicated 01 no. movable Water mist fog
		system in use. 01 no fixed water sprinkler is also installed. Additional 02 nos. will be used.
	Sufficient number of mobile	
	or stationery vacuum cleaners shall be provided to	
	clean plant roads, shop	
	floors, roofs, regularly.	Water Tanker -1 Water Tanker -2
For Of	ISSA METALLURGICAL INDUSTRY PRIVATE LIMITED	MIST CANNON STATION-2
		Movable water mist fixed water mist
		Fog canon fog canon ❖ Dedicated 02 nos. street swiping machine
		also in use in plant. Additional 02 nos. will
		be used.

		Street sweeping Street sweeping machine no-1 machine no-2 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.	 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.
viii	The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.	Agreed and 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.
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).	Agreed and noted for compliance. 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.
Х	Land-based APC system shall bearinstalled atom control coke	Agreed and noted for compliance. Coke oven plant civil foundation works and

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	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. Agreed and noted for compliance.
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.	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. V	Vater 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.

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	March 2012(Integrated iron & Steel); G.S.R 414 (E) dated 30 th May 2008(sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7 th December 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act,1986 or NABL accredited laboratories.	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.
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.	Agreed and 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 as annexed as Annexure-IX .
iii	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards	Noted. Domestic waste water treated in STP (50 KLD). After treatment it is reused for dust suppression and green belt development.
iv	Garland drains and collection pits shall be provided for each stock pile to arrest the run off in the event of heavy	Agreed and will be complied with. The project is still under construction phase. Garland drains are provided along the raw

	rains and to check the water	material stock y	ard.		
	pollution due to surface run off.				
		Agreed a	nd Noted f	or complia	nce.
V	Tyre washing facilities shall be provided at the entrance of the plant gates.	Project is still and the tyre construction pha gates and will be	washing ase at the	facilities entrance (is under of the plant
vi	Water meters shall be provided at the inlet to all unit processes in the steel plants.	Water meters in surface water.	stalled at	the intake	well of the
IV. N	oise monitoring and prevent	ion			
		Ве	ing Compl	ied with.	
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 sixmonthly compliance report.	The ambient noise monitoring carried in monof January 2024 by third party monitoring agency M/s. Indicative Consultant India, Has accredited laboratory and report has a submitted with the Action Taken Report Sub-Regional Office of the ministry, Kolvide letter no. OMIPL/ATR 24/ADSREPLY/02 dated 09.03.2024. Again, Noise level has been monitored ambient & work zone i.e., DRI & CPP Arabete Truck Parking Area, Construction Site of and Rolling Mill, Construction Site of Narayannur Village. Gokulpur Village		monitoring ndia, Haldia has been Report to ry, Kolkata PL/ATR/23-onitored at CPP Area, Site of SMS te of DRI; Village & monitoring Services, laboratory.	
	FOI ORUSSA METALLURGICAL INDUSTRY PROVATE LIMITED	Location	Leq dB	Leq dB	Average
	VO Standard Singapore		(Day)	(Night)	dB
	Dijector/Authorized Signatory	DRI & CPP Area	58.6	52.3	54.3
		Truck	59.8	52.0	54.7

		Parking Area		1	
		Construction			
		Site of SMS	59.4	49.3	53.6
		and Rolling			
		Mill			
		Construction	58.8	49.4	54.2
		Site of DRI	36.6	73.7	J4.2
				Leq dB	Leq dB
		Locati	on	(Day)	(Night)
		Narayanpur Vi	llage	51.6	44.1
		Gokulpur Villag		51.5	42.3
		Panchrulia Villa		52.4	43.5
		Ambient Noise			Monitoring
		Reports are atta			_
V. E	nergy Conservation measure	•	acrieu as A	illiexule-z	X.
V. L	liergy conservation measure	Noted and will l	ha complia	d with dur	ing project
			•	a with dui	ing project
		implementation	stage.		
i	Use torpedo ladle for hot	Only 2 \times 500 TPD + 2 \times 350 TPD DRI plant is under operation. No hot metal generation is there.			RI nlant is
	metal transfer as far as				-
	possible. If ladles not used,				iciation is
1	-				
	provide covers for open top ladles.	Steel Melting Shop with matching CCM is under			
	ladies.	construction phase. Post implementation of the			
		project Torpedo ladle/covered open top ladles			
		will be used for	•	•	top laules
			nd noted fo		nce.
	Doctrict Coo floring to 4.1	Blast furnace is	not vet i	nnlemente	ed. The BF
ii		Blast furnace is not yet implemented. The BF will be implemented in phase manner and BF			
	%.	gas will be us			
		furnace of rolling mill.			
	Drovido color	Agreed a	nd will be	complied w	ith.
	Provide solar power	Don't a 1 1 1 1111			
	generation on roof tops of	_		r the construction phase.	
	buildings, for solar light				
iii	system for all common	i.e. in DRI Plant internal road, near HR & Admin office (common area); Hutment area			
	areas, street lights, parking	(STP-site), Construction site of SMS unit.			
	around project area and				
	maintain the same regularly;	•			
	B 155	in parallel with			e project.
iv	Provide LED light in their	Agreed and beir	ng complied	1.	
	offices and residential areas.				
	Ensure installation of	of Agreed and will be complied with during			_
	regenerative /recuperative				e.
	type burners on all reheating	Dinast lead 1		s killer c	···· CMC :
	furnaces.	Direct hot char	ging of M.S	o. billet fro	om SMS to

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		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.
VI. V	Vaste 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.	Agreed and Noted for compliance. 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.
		Agreed and Noted for compliance.
ii	Carbon recovery plant to recover the elemental carbon present in GCP slurries for use in Sinter plant shall be installed.	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.
iii	Used refractories shall be recycled as far as possible.	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 refectories is 02 years (average). The used refectories after its life span will be used in cement plant of the associate company of the Group.
iv	100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.	Agreed and noted for compliance. 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.
V	Oil Collection pits shall be provided in oil cellars to	Agreed and noted for compliance. Rolling mill is still under construction phase

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	collect and reuse/recycle	and in design phase of the rolling mill the said
	spilled oil. Oil collection trays	point is taken into consideration.
	shall be provided under coils	Oil collection pits will be provided in oil cellars
	on saddles in cold rolled coil	to collect and reuse/recycle spilled oil.
	storage area.	· , , , ,
	Kitchen waste shall be	Agreed and being complied with.
vi	composted or converted to	Kitchen waste are composted and use as
	biogas for further use.	manure for green belt development.
VII G	reen Belt	manure for green beit development.
VII. G		CHC emissions inventory has already been
	The project proponent shall	GHG emissions inventory has already been
	prepare GHG emissions	prepared by the NABET accredited consultant
	inventory for the plant and	Centre for Envotech and Management
	shall submit the programme	Consultancy Pvt. Ltd., Bhubaneswar during EIA
	for reduction of the same	study of proposed Expansion of Integrated
	including carbon	Steel Plant (1.0 Million TPA To 2.0 Million TPA
İ	sequestration by trees.	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.
	Project proponent shall	23.03.2023.
	submit a study report on	
	Decarbonisation program,	
	which would essentially	
	consist of company's carbon	
	emissions, carbon budgeting/	
	balancing, carbon badgeting,	
	sequestration activities and	
	carbon capture, use and	
	storage and offsetting	
	strategies. Further, the	Reply to the subject condition is already stated
ii	report shall also contain time	in point no. ii under Specific Conditions.
	bound action plan to reduce	in point no. ii under Specific Conditions.
	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.	
VTTT	Public hearing and Human H	ealth Tssues
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		Complied.
i	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	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.
		Is being complied with.
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.	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
		Being Complied.
	Occupational health surveillance of the workers	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
iii	shall be done on a regular basis and records maintained.	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. E	nvironment Management	A11.
_	The project proponent shall	In FY 2023-24 under the head of CSR/CER Rs.
i	comply with the provisions	1,52,30,987.0 is spent under CER to full fill all
'	contained in this Ministry's	the commitments.
	OM vide F.No. 22-65/2017-	FOX ORUSSA METALLURGICAL INDUSTRY PRIVATE LIMITED

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

X. Miscellaneous

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

		Complied.
İ	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.	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.
ii	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.	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.
iii	The project proponent shall	Complied.
	upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their	The environmental clearance and status of compliance of the stipulated environment clearance conditions, including results of monitored data uploaded and updated on

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	website and update the same	regular basis on the website of the company
	on half-yearly basis.	http://orissametaliks.com/qehs.html
iv	The project proponent shall monitor the criteria pollutants level namely; PM ₁₀ , SO ₂ ,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.	Being Complied. The criteria pollutants level namely; PM ₁₀ , PM _{2.5} , SO ₂ , 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/gehs.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.

	development work and start	
	of production operation by	
	the project. The project proponent shall	
viii	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://orissametaliks.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 LIMITE

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	conditions. The project	
	authorities should extend full	
	cooperation to the officer (s)	
	of the Regional Office by	
	,	
	furnishing the requisite data/	
	information/ monitoring	
	reports.	
	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	
8	time bound manner. The	Agreed and noted.
	Ministry may revoke or	
	suspend the environmental	
	clearance, if implementation	
	of any of the above	
	conditions is not found	
	satisfactory.	
	Concealing factual data or	
	submission of false/	
	fabricated data and failure to	
	comply with any of the	
9	conditions mentioned above	Agreed and noted.
	may result in withdrawal of	
	this clearance and attract	
	action under the provisions	
	of the EPA, 1986.	
	Any appeal against this	
	environmental clearance	
	shall lie with the National	
	Green Tribunal, if preferred,	
10	within a period of 30 days as	Agreed and Noted.
	prescribed under Section 16	
	of the National Green	
	Tribunal Act, 2010.	
	The above conditions shall	Agreed and Noted.
	be enforced, inter-alia under	g. 222 2aa
	the provisions of the Water	
11	(Prevention & Control of	FOR ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED
	Pollution) Act, 1974, the Air	THI OTOSA MENALUMINAL RIDOS AT TAKE A STATE OF
	(Prevention & Control of	NOW, 3
	Pollution) Act, 1981, the	Director / Authorized Signatory
	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.	

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

	mg	ı/nm³.	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.
	Ste	eel plant shall have	
	foll	owing specific facilities for	
	cleaner production:		
		Modified wet quenching	The said condition has been modified and is
		facility complete with	already covered in compliance point no. vii
		sampling facility shall be	of Specific conditions issued for Expansion of
	а	provided.	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.
		BF shall have Top	The said condition has been modified and is
		Pressure Recovery	already covered in compliance point no. viii
		Turbines (TRT).	of Specific conditions issued for Expansion of
	L .		Integrated Steel Plant (1.0 million TPA to 2.0
	b		million TPA Finished Steel) With 385 MW
			Captive Power Plant having EC No.
			EC22A008WB158432 issued vide F No IA-J-
II.			11011/56/2017-IA-II(I); dated 11.10.2022.
		Electric Arc Furnace	Agreed and noted for compliance.
		(EAF) and Submerged	No electric are furnace (EAE) is proposed with
		Arc Furnace (SAF) shall be closed type and forth	No electric arc furnace (EAF) is proposed with EC accorded project. Submerged Arc Furnace
		hole extraction system	(SAF) with ferro alloy plant is proposed and
	С	shall be included for	civil foundation works and structure erection
		fume control from these	going on EC accorded ferro alloy plant. In
		furnaces.	design phase of the SAF fourth hole extraction
			system has been considered for fume control
			from these furnaces
		Zigging and Briquetting	Agreed and noted for compliance.
	ی.	plant shall be provided.	Zigging and Briquetting plant will be
	d		implemented in parallel with implementation of
			EC accorded ferro alloy plant in phase manner.
		Producer Gas Plant	Agreed and noted for compliance.
		(PGP) shall be closed	_ ,
	е	type and Phenolic water	Producer gas plant will be installed in parallel
		from PGP shall be	with implementation of reheating furnace of
	1	<u> </u>	^ _

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

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	treated for phenol, tar	rolling mill & coal dryer.
	and cyanide.	In the design phase of the Producer gas plant
		the said point will be taken into conisation 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.
	Water requirement for	The said condition has been modified and is
	the plant shall be met	already covered in compliance point no. xviii
	from surface water and	of Specific conditions issued for Expansion of
f	ground water abstraction	Integrated Steel Plant (1.0 million TPA to 2.0
	shall not be permitted.	million TPA Finished Steel) With 385 MW Captive Power Plant having EC No.
		Captive Power Plant having EC No. EC22A008WB158432 issued vide F No IA-J-
		11011/56/2017-IA-II (I); dated 11.10.2022.
	Acid recovery plant shall	The said condition has been modified and is
	be provided in Cold	already covered in compliance point no. xii
	rolling Mill (CRM).	of Specific conditions issued for Expansion of
_		Integrated Steel Plant (1.0 million TPA to 2.0
g		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.
	Solid waste generated	Not applicable as Ductile Iron pipe unit has
	from DI plant shall be reused/recycled/sold	been surrendered in the EC obtained for Expansion of Integrated Steel Plant (1.0 million
h	along with other solid	TPA to 2.0 million TPA Finished Steel) With 385
	waste from the steel	MW Captive Power Plant having EC No.
	plant.	EC22A008WB158432 issued vide F No IA-J-
		11011/56/2017-IA-II(I); dated 11.10.2022.
	Iron ore tailings shall be	Not applicable as Pellet Plant and I/O
	dewatered using filter	Beneficiation Plant has been surrendered in the
	press and dry disposal of	EC obtained for Expansion of Integrated Steel
i	the tailings shall be	Plant (1.0 million TPA to 2.0 million TPA
	practiced.	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.
	Incinerator shall be	Agreed and noted for compliance.
	included for disposal of	. ig. 222 2a notes to compliance.
	oily scum and oil sludge	Cold Rolling Mill (CRM), color coating and
j	from CRM.	galvanizing plants will be installed in phase
		manner as per market demand. Incinerator will
		be done for disposal of oily scum and oil sludge
K	Performance Evaluation	from CRM. The said condition has been modified and is
,	renormance Evaluation	THE Salu Condition has been modified and is



		tasts for all Pollution	already covered in compliance point no viv
		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.
	ı	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 noEC22A008WB158432 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.	cor	lowing energy nservation measures shall installed.	waste water generation
	a.	Power Generation with Top Pressure Recovery Turbines (TRT) in blast Furnace.	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.

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		EC22A008WB158432 issued vide F No IA-J- 11011/56/2017-IA-II(I); dated 11.10.2022.
C.	Evaporator will be	Not applicable as Ductile Iron pipe unit has
<u> </u>	installed in annealing	been surrendered in the EC obtained for
	furnace of DI Pipe plant	Expansion of Integrated Steel Plant (1.0 million
	to generate steam from	TPA to 2.0 million TPA Finished Steel) With 385
	waste head.	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	The said condition is already covered in
	installed to recover heat	compliance point no. xv of Specific
	from BF stove waste gas	conditions issued for Expansion of Integrated
	and used for stove gas	Steel Plant (1.0 million TPA to 2.0 million TPA
	reheating reducing	Finished Steel) With 385 MW Captive Power
	requirement of fuel gas.	Plant having EC No. EC22A008WB158432
	requirement of fuel gas.	
		issued vide F No IA-J-11011/56/2017-IA-
	1000/	II(I); dated 11.10.2022.
e.	100% consumption of	The said condition is already covered in
	Dolo char in circulating	compliance point no. xx of Specific
	fluidized bed combustion	conditions issued for Expansion of Integrated
	boiler (CFBC) based	Steel Plant (1.0 million TPA to 2.0 million TPA
	boiler.	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	Agreed and will be complied with.
	Waste Heat Recovery	While obtaining the expansion/consolidated
	Boiler (WHRB) in coke	latest EC issued by ministry vide EC no
	oven plant.	, ,
		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	The said condition has been modified and is
	charging of billet from	already covered in compliance point no. xi
	SMS Rolling Mill	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	Agreed and Noted for compliance.
	oily scum and metallic	
	sludge by briquetting	FOI ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED
	and reuse.	Day's Silver

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).	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
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.	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

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		cannon system on raw material.
		The said condition has been modified and is
		already covered in compliance point no. xvi
		of Specific conditions issued for Expansion of
X.	Rain water harvesting shall	Integrated Steel Plant (1.0 million TPA to 2.0
	be practiced extensively.	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.
	40.1 ha land shall be	The said condition has been modified and is
	brought under green belt@	already covered in compliance point no. xxv
	2500 tree per ha in 3 years.	of Specific conditions issued for Expansion of
XI.		Integrated Steel Plant (1.0 million TPA to 2.0
^1.		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.
	Ultralow NOx burner with	The said condition is already covered in
	three stage combustion,	compliance point no. xxi of Specific
	flue, gas recirculation and	conditions issued for Expansion of Integrated
VII	auto combustion control	Steel Plant (1.0 million TPA to 2.0 million TPA
XII.	system shall be used.	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.
	Energy efficient drives, VFD	The said condition is already covered in
	for auxiliary motors, slip	compliance point no. xxii of Specific
	power recovery for motors	conditions issued for Expansion of Integrated
\/TTT	above 1000 KW shall be	Steel Plant (1.0 million TPA to 2.0 million TPA
XIII.	provided.	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.
	Ventilation system for odour	The said condition is already covered in
	control in bitumen coating	compliance point no. xxiii of Specific
	area shall be included.	conditions issued for Expansion of Integrated
\/T\/		Steel Plant (1.0 million TPA to 2.0 million TPA
XIV.		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.
:	Zn dust monitoring in AAQ in	Not applicable as Ductile Iron pipe unit has
XV.	DI plant shall be carried out.	been surrendered in the EC obtained for
	ETP shall be provided for DI	Expansion of Integrated Steel Plant (1.0 million
XVI.	plant exclusively.	TPA to 2.0 million TPA Finished Steel) With 385
7(11		MW Captive Power Plant having EC No.
i	1	10

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

S.	General Conditions	Compliance Status
No.		
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.	
II.	Air quality monitoring and preservat	ion
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.	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
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

FOR ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

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	1	Diamet Institute EC No.
		Plant having EC No.
		EC22A008WB158432 issued vide F No.
		- IA-J-11011/56/2017-IA-II (I); dated
		11.10.2022.
	Sampling facility at process stacks	The said condition is already covered in
	and at quenching towers shall be	compliance point no. iii of Air
	provided as per CPCB guidelines for	quality monitoring and preservation
	manual monitoring of emissions.	(II) of General conditions issued for
	infantial monitoring of emissions.	
		Expansion of Integrated Steel Plant (1.0
iii		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.
		The said condition is already covered in
	A A	compliance point no. iv of Air quality
	Appropriate Air Pollution Control	monitoring and preservation (II) of
	(APC) system shall be provided for all	General conditions issued for
	the dust generating points including	Expansion of Integrated Steel Plant (1.0
iv	fugitive dust from all vulnerable	million TPA to 2.0 million TPA Finished
	sources, so as to comply prescribed	Steel) With 385 MW Captive Power
	stack emission and fugitive emission	Plant having EC No.
	standards.	EC22A008WB158432 issued vide F No.
		- IA-J-11011/56/2017-IA-II (I); dated
		11.10.2022.
		The said condition is already covered in
		compliance point no. v of Air quality
		_
		monitoring and preservation (II) of
	The project proponent shall provide	General conditions issued for
	leakage detection and mechanized	Expansion of Integrated Steel Plant (1.0
V	bag cleaning facilities for better	million TPA to 2.0 million TPA Finished
	maintenance of bags.	Steel) With 385 MW Captive Power
	maintenance or bags.	Plant having EC No.
		EC22A008WB158432 issued vide F No.
		- IA-J-11011/56/2017-IA-II (I); dated
		11.10.2022.
	Sufficient number of mobile or	The said condition is already covered in
		<u>-</u>
	stationery vacuum cleaners shall be	compliance point no. vi of Air
	provided to clean plant roads, shop	quality monitoring and preservation
	floors, roofs, regularly.	(II) of General conditions issued for
vi		Expansion of Integrated Steel Plant (1.0
		million TPA to 2.0 million TPA Finished
	FOR ORISSA METALLUPGICAL INCUSTRY PRIVATE LIMITED	Steel) With 385 MW Captive Power
	FOR ORUSSA METALLURGICAL INDUSTRY PRIVATE LIMITED	Plant having EC No.
	DON'S	EC22A008WB158432 issued vide F No.
	Director/Authorized Signatory	1

		- IA-J-11011/56/2017-IA-II (I); dated
		11.10.2022.
		The said condition is already covered in
		compliance point no. vii of Air
		quality monitoring and preservation
	Recycle and reuse iron ore fines, coal	(II) of General conditions issued for
	and coke fines, lime fines and such other fines collected in the pollution	Expansion of Integrated Steel Plant (1.0
vii	control devices and vacuum cleaning	million TPA to 2.0 million TPA Finished
	devices in the process after	Steel) With 385 MW Captive Power
	briquetting/agglomeration.	Plant having EC No.
	2.14.2.23, 2.33.2	EC22A008WB158432 issued vide F No.
		- IA-J-11011/56/2017-IA-II (I); dated
		11.10.2022.
	The project proponent use leak proof	The said condition is already covered in
	trucks/dumpers carrying coal and other raw materials and cover them	compliance point no. viii of Air quality monitoring and preservation
	with tarpaulin.	(II) of General conditions issued for
	With tarpaami.	Expansion of Integrated Steel Plant (1.0
viii		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	The said condition is already covered in
	provided for coal and coke on wharf of coke oven batteries (chain conveyors,	compliance point no. ix of Air quality monitoring and preservation
	land based industrial vacuum cleaning	(II) of General conditions issued for
	facility).	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.
	Land-based APC system shall be	The said condition is already covered in
	installed to control coke pushing emissions.	compliance point no. x of Air quality monitoring and preservation (II) of
	emissions.	General conditions issued for
		Expansion of Integrated Steel Plant (1.0
X		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.

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xi	Monitor CO, HC and O ₂ in flue gase of the coke oven battery to detection of the combustion efficiency and crost leakages in the combustion chamber.	million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power
xii	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.	, ,
xiii	Design the ventilation system for adequate air changes as perprevailing norms for all tunnels, motor houses, Oil Cellars.	Expansion of Integrated Steel Plant (1.0)
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 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	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.

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

Director / Authorized Signatory

vide F No 1A-J-11011/56/2017-IA-II(I); dated 11.10.2022. 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 1A-J-11011/56/2017-IA-II(I); dated 11.10.2022. Water meters shall be provided at the inlet to all unit processes in the steel plants. Water meters shall be provided at the inlet to all unit processes in the steel plants. Water meters shall be provided at the inlet to all unit processes in the steel plants. Water meters shall be provided at the inlet to all unit processes in the steel plants. Water meters shall be provided at the inlet to all unit processes in the steel plants. Water meters shall be provided at the inlet to all unit processes in the steel plants. Water meters shall be provided at 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 Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WB158432 issued for Expansion of Integrated Steel Plant (1.0 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 1.10.2022. V. Energy Conservation measures I be 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. EA3-11011/56/2017-IA-II(I); dated 1.10.2022.			having EC No. EC22A008WB158432 issued
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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 compliance point no. v of Water meters shall be provided at the inlet to all unit processes in the steel plants. Water meters shall be provided at the inlet to all unit processes in the steel plants. Will Water meters shall be provided at the inlet to all unit processes in the steel plants. Water meters shall be provided at the inlet to all unit processes in the steel plants. Water meters shall be provided at the inlet to all unit processes in the steel plants. Water meters shall be provided at the inlet to all unit processes in the steel plants. 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 foo IA-1-11011/56/2017-IA-II(I); dated 11.10.2022. The said condition is already covered in compliance point no. i of 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 MW Captive Power Plant having EC No. EC22A008WBI58432 issued vide F No IA-J-11011/56/2017-IA-II(I); dated 11.10.2022. 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 to 2.0 million TPA to 2.0 million TPA to 2.0 million TPA Finished Steel) With 385 MW Captive Power Plant having EC No. EC22A008WBI58432 issued vide F No IA-J-11011/56/2017-IA-II(I); dated 11.10.2022.			
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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. Water meters shall be provided at the inlet to all unit processes in the steel plants. 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. TV. Noise monitoring and prevention Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as part of six-monthly compliance point no. i of Noise MW Captive Power Plant having EC No. EC22A008WB158432 issued vide F No IA-J-11011/56/2017-IA-II(I); dated 11.10.2022. 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.		plant gates.	quality monitoring and preservation
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11.10.2022.	i V.	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. Energy Conservation measures Use torpedo ladle for hot metal transfer as far as possible. If ladles not used, provide covers for open	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 NoIA-J-11011/56/2017-IA-II(I); dated 11.10.2022. 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.
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ii Restrict Gas flaring to < 1 %. The said condition is already covered in	i V.	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. Energy Conservation measures Use torpedo ladle for hot metal transfer as far as possible. If ladles not used, provide covers for open	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 NoIA-J-11011/56/2017-IA-II(I); dated 11.10.2022. 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 NoIA-J-11011/56/2017-IA-II(I); dated
	i V.	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. Energy Conservation measures Use torpedo ladle for hot metal transfer as far as possible. If ladles not used, provide covers for open top ladles.	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 NoIA-J-11011/56/2017-IA-II(I); dated 11.10.2022. 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 NoIA-J-11011/56/2017-IA-II(I); dated 11.10.2022.

For ORISSA METALLURGICAL INDUSTRY PRIVATE UMITED

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		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

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		MW C II D DI I I I FO N
		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 NoIA-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

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	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	11.10.2022.
		Being complied with in a time bound manner.
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	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.
	by trees.	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 Ho	
I	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	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.
		The said condition is already covered in
	The project proponent shall carry out heat stress analysis for the workmen who work in	compliance point no. ii of Public hearing and Human Health Issues (VIII) of General conditions issued for Expansion of
ii	high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.	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	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
For	basis and records maintained.	Integrated Steel Plant (1.0 million TPA to 2.0

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		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 Respo	nsibility
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.
	A separate Environmental Cell	The said condition has been modified and is
	both at the project and	already covered in compliance point no. iii of
	company head quarter level,	Environment Management (IX) of General
iii	with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.	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-

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II(I); dated 11.10.2022. X. **Miscellaneous** The project proponent shall Complied. make public the environmental Advertisement for environment clearance dated conditions and safeguards at 18.05.2021 in favour of Orissa Metaliks Pvt. their cost by prominently Ltd. published in two local newspapers that are advertising it at least in two widely circulated in the region are: local newspapers the District or State, of which one 1. Aajkal dated 20.05.2021 (Bengali) shall be in the vernacular 2. The Echo of India dated 20.05.2021 language within seven days (English) and in addition this shall also be displayed in the project Advertisement for environment proponent's website transfer dated 03.08.2021 in favour of Orissa i permanently. Metallurgical Industry Pvt. Ltd. from Orissa Metaliks Pvt. Ltd. published in two local newspapers that are widely circulated in the region are: 1. Aajkal dated 06.08.2021 (Bengali) 2. The Echo of India dated 06.08.2021 (English) 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. Complied. Copies of EC dated 18.05.2021 w.r.t EC obtained in favour of Orissa Metaliks (P) Ltd. The copies of the submitted DM, Paschim Medinipur to environmental clearance shall Kalaikunda Gram Panchayat vide letter dated be submitted by the project 14.07.2021 and mail dated 06.10.2021. proponents to the Heads of Copies of EC dated 03.08.2021 w.r.t EC local bodies, Panchayat and ii in favour of Orissa Metallurgical transfer Municipal Bodies in addition to Industry Pvt. Ltd submitted to DM, Paschim the relevant offices of the Medinipur & Kalaikunda Gram Panchayat vide Government who in turn has letter dated 16.08.2021 and 16.08.2021. to display the same for 30 days from the date of receipt. 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.

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED

	The project proponent shall	Complied.
iii	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.	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 , 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.	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.

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	The project proponent shall	Noted.
vii	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.	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 PRIXATE JUN

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	A.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 ORUSSA METALLURGICAL INDUSTRY PRIVATE LIMITED

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		
D: / ! /	A STATE OF THE STA		

District MEDINIPUR**♦**WEST

Proposal No.	IA/WB/IND/285991/2017
Plot / Survey / Khasra No.	N/A
State	WEST BENGAL
MoEF File No.	IA-J-11011/56/2017-IA- II(I)

Category	Industrial Projects - 1
Sub-District	N/A
Entity's PAN	NA
Entity name as per PAN	NA

Compliance Reporting Details

Reporting Year 2024

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, **Remarks (if any)** 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 / 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	
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	Productio n last year	Capacity as per CTO
1	SPONGE IRON	Million Tons per Annum (MTPA)	31/07/202	2.9	-	0.561
2	CAPTIVE POWER (WHRB)	MW	31/07/202	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

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

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.

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.

Date: 29/05/2024

7 AIR QUALITY
MONITORING AND
PRESERVATION

Basic Oxygen Furnace (BOF) gas shall be cleaned dry.

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.

Date: 29/05/2024

8 AIR QUALITY
8 MONITORING AND
PRESERVATION

Dust emission from Steel Plant stacks shall be up to 30 mg/Nm3.

PPs Submission: Being Complied

As stated in point i, currently $2 \times 500 + 2 \times 350$ 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.

Date: 29/05/2024

9 WAS

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.

PPs Submission: Agreed to Comply

 3×40 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.

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.

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 $2 \times 500 \text{ TPD} + 2 \times 350 \text{ TPD}$ 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.

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.

PPs Submission: Agreed to Comply

Agreed and will be complied once the project comes in operation. Currently no M.S. Billets is being

Date: 29/05/2024

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. WATER QUALITY The company shall also undertake rain water harvesting measures MONITORING AND 12 as per the plan submitted and reduce water dependence from the **PRESERVATION** outside source. Date: **PPs Submission:** Complied 29/05/2024 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. 85% of raw materials and finished goods shall be transported by dedicated railway siding facility. In the event of delay in 13 **MISCELLANEOUS** establishment of dedicated railway line, PP shall use another railway siding facility of Rashmi Group. **PPs Submission:** Agreed to Comply In-principal approval for setting up the proposed private railway siding has been obtained from Date: South Eastern Railway vide letter no. GW/1/OMIPL-NWOSC(IPA)/159 dated 08.08.2022. Also 29/05/2024 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). WATER QUALITY The total water requirement of 13,200 KLD will be obtained from 14 MONITORING AND Kansabati River & rain water harvesting structure. No ground water **PRESERVATION** abstraction is permitted. **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

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 Metalliks 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.

Date: 29/05/2024

WATER QUALITY
MONITORING AND
PRESERVATION

02 Nos. rain water harvesting pond exist is within project site. Also, Kansabati River, other rainwater harvesting structures and ponds exists within the study area of 10 km from the project site. The water bodies shall not be disturbed. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.

PPs Submission: 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.

Date: 29/05/2024

16 MISCELLANEOUS

Air cooled condensers shall be used in the Power plant. 100% consumption of Dolo char in CFBC based boiler.

PPs Submission: Being Complied

Date:

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.

PPs Submission: Complied

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.

Date: 29/05/2024

18

WASTE MANAGEMENT

A proper action plan must be implemented to dispose of the electronic waste generated in the industry.

PPs Submission: Being Complied

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).

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.

PPs Submission: Being Complied

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.

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.

PPs Submission: Agreed to Comply

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.

Date: 29/05/2024

21

WASTE MANAGEMENT

Solid waste utilization: c. Used refractories shall be recycled as far as possible.

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 refectories is 02 years (on and average). The used refectories after its life span will be used in cement plant of the associate company of the Group.

Date: 29/05/2024

22 AIR QUALITY
MONITORING AND
PRESERVATION

EAF shall be closed type and fourth hole extraction system shall be included for fume control from these furnaces.

PPs Submission: Agreed to Comply

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.

Date: 29/05/2024

23

ENERGY PRESERVATION MEASURES

Recuperator shall be installed to recover heat from BF stove waste gas and used for stove gas reheating reducing requirement of fuel gas.

PPs Submission: Agreed to Comply

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 2×500 TPD $+ 2 \times 350$ 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.

Date: 29/05/2024

24

Human Health Environment

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.

PPs Submission: Being Complied

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.

Date: 29/05/2024

25

WATER QUALITY MONITORING AND PRESERVATION Cold Rolling Mill (CRM), color coating and galvanizing plants shall have CETP to treat and recycle the treated water from CRM complex. Sludge generated at CRM ETP shall be sent to TSDF. Acid recovery plant shall be provided in CRM.

PPs Submission: Agreed to Comply

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.

Date: 29/05/2024

26

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

PPs Submission: Agreed to Comply

Project is still in construction phase and only $2 \times 500 \text{ TPD} + 2 \times 350 \text{ TPD}$ 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.

Date: 29/05/2024

AIR QUALITY MONITORING AND PRESERVATION

27

Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Regional Office of the MoEF&CC.

PPs Submission: Agreed to Comply

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.

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.

PPs Submission: Being Complied

Project is still in construction phase and only $2 \times 500 \text{ TPD} + 2 \times 350 \text{ TPD}$ 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.

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.

PPs Submission: Being Complied

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.

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.

PPs Submission: Being Complied

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.

Date: 29/05/2024

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.

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.

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.

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.

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.

PPs Submission: Being Complied

Greening and Paving being done in parallel with implementation of the project. Green belt development with photograph detail is uploaded.

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.

PPs Submission: Agreed to Comply

Project is still in construction phase and only $2 \times 500 \text{ TPD} + 2 \times 350 \text{ TPD}$ DRI plant is under operation. Plant internal roads are being developed in parallel with implementation of the project and

Date: 29/05/2024

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

PPs Submission: Being Complied

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.

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.

PPs Submission: Being Complied

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.

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.

PPs Submission: Being Complied

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.

Date: 29/05/2024

4 AIR QUALITY
4 MONITORING AND
PRESERVATION

Facilities for spillage collection shall be provided for coal and coke on wharf of coke oven batteries (Chain conveyors, land based industrial vacuum cleaning facility).

PPs Submission: Agreed to Comply Date: Coke oven plant civil foundation work and structure erection going on and will be implemented 29/05/2024 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. AIR QUALITY Monitor CO, HC and O2 in flue gases of the coke oven battery to 5 MONITORING AND detect combustion efficiency and cross leakages in the combustion **PRESERVATION** chamber. **PPs Submission:** Agreed to Comply Date: Coke oven plant civil foundation works and structure erection going on and will be implemented in 29/05/2024 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. AIR QUALITY Vapor absorption system shall be provided in place of vapour 6 MONITORING AND compression system for cooling of coke oven gas in case of recovery **PRESERVATION** type coke ovens. Date: **PPs Submission:** Agreed to Comply 29/05/2024 The EC accorded coke oven plant is a non-recovery type coke oven plant. The said point is 'Not Applicable'. AIR QUALITY Wind shelter fence and chemical spraying shall be provided on the 7 MONITORING AND raw material stock piles. **PRESERVATION** PPs Submission: Being Complied Date: The project is still under construction phase. Currently the raw material stock are stored in covered 29/05/2024 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. WATER QUALITY Water meters shall be provided at the inlet to all unit processes in MONITORING AND 8 the steel plants. **PRESERVATION** Date: PPs Submission: Being Complied 29/05/2024 Water meters installed at the intake well of the surface water. 100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization 9 WASTE MANAGEMENT and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office. **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 Date: operation. No Fly ash is being generated. Fly ash generated from CFBC boiler (yet to be 29/05/2024 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.

10 WASTE MANAGEMENT

Kitchen waste shall be composted or converted to biogas for further use.

PPs Submission: Being Complied

Kitchen waste are composted and use as manure for green belt development.

Date: 29/05/2024

Emergency preparedness plan based on the Hazard identification Risk Mitigation and Disaster 11 and Risk Assessment (HIRA) and Disaster Management Plan shall be Management implemented. PPs Submission: Being Complied Date: HIRA report and Disaster Management Plan have been prepared by NABET accredited consultant is 29/05/2024 already submitted to IRO, MoEF&CC vide letter no. OMIPL/ENV COMPL/JUNE 2023 dated 25.05.2023 and is implemented project wise. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the 12 **MISCELLANEOUS** control of senior Executive, who will directly to the head of the organization. PPs Submission: Being Complied Date: A separate Environmental cell both at project and company head quarter is in place. The Framework 29/05/2024 of EHS is already submitted to IRO, MoEF&CC vide letter no. OMIPL/ENV COMPL/JUNE 2023 dated 25.05.2023. 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 13 **MISCELLANEOUS** 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 Date: 13.10.2022 (English) Copies of latest advertisement are already submitted to IRO, MoEF&CC vide 29/05/2024 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. 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/ 14 Statutory compliance 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. Date: **PPs Submission:** Agreed to Comply 29/05/2024 Agreed and Noted. AIR QUALITY Sampling facility at process stacks and at quenching towers shall be 15 MONITORING AND provided as per CPCB guidelines for manual monitoring of **PRESERVATION** emissions.

PPs Submission: Being Complied

The project is still in construction phase. Only $2 \times 350 + 2 \times 500$ 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

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 device cleaning devices in the process after briquetting/agglor	
Doloch & Kiln vacuur	accretion -1,00,000 TPA used for road	A used in associated Company Power Plant. ESP dust donstruction. Fines/dust collected from APC and project will be handled as per EIA/EMP plan	Date: 29/05/2024
17	AIR QUALITY MONITORING AND PRESERVATION	The project proponent use leak proof trucks/dumpers and other raw materials and cover them with tarpaulin.	
Project transpo avoid o	ortation/movement of vehicles. Trucks	nutionary step to control emission during movement for transporting in fully covered way to be regulated (20 km/hr) to control the fugitive dust	Date: 29/05/2024
18	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall install 24x7 continuous of monitoring system with respect to standards prescribed Environment (Protection) Rules 1986 vide G.S.R 277 (March 2012 (Integrated iron & Steel); G.S.R 414 (E) of 2008 (Sponge Iron) as amended from time to time; S.C dated 7th December 2015 (Thermal Power Plants) as a time to time and connected to SPCB and CPCB online calibrate these system from time to time according to esupplier specification through labs recognized under E (Protection) Act, 1986 or NABL accredited laboratoric	I in (E) dated 31st lated 30th May 0. 3305 (E) mended from servers and equipment nvironment
Project Plant a Curren DRI pl	and 100% water is/will be treated and reatly 50 KLD STP is installed to treat do	ad plant is being designed as Zero Liquid Discharge ecycled for dust suppression & green belt development. mestic water and primary ETP plant for operational are required to install web camera at the potential a are installed to monitor the same.	Date: 29/05/2024
19	ENERGY PRESERVATION MEASURES	Provide LED lights in their offices and residential are	eas.
	Submission: Being Complied d and being complied.		Date: 29/05/2024
20	ENERGY PRESERVATION MEASURES	Ensure installation of regenerative/recuperative type reheating furnaces.	burners on al
Agreed billet fi simulta	rom SMS to rolling mill is planned, so	ect implementation stage. Direct hot charging of M.S. according SMS & Rolling mill is being constructed aces are installed and if installed in future, reheating furnaces will be installed.	Date: 29/05/2024
21	Human Health Environment	The project proponent shall carry out heat stress anal workmen who work in high temperature work zone an Personal Protection Equipment (PPE) as per the norms	d provide

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

Date: 29/05/2024

		m	,
22	Corporate Environmental Responsibility	The project proponent shall comply with the provision in this Ministry's OM vide F.No. 22-65/2017-IA.III da 30/09/2020. As part of Corporate Environment Responsactivity, company shall adopt nearby villages based on economic survey and undertake community development in consultation with the village Panchayat and the Distraction Administration as committed.	ted asibility (CEI) the socio- ental activitie
In FY	Submission: Being Complied 2023-24 under the head of CSR/CE itments.	ER Rs. 1,52,30,987.0 is spent under CER to full fill all the	Date: 29/05/2024
23	AIR QUALITY MONITORING AND PRESERVATION	Design the ventilation system for adequate air change prevailing norms for all tunnels, motor houses, Oil Cel	
The E0		nstruction phase. For the implemented project proper the tunnels and pump houses, control room etc. for	Date: 29/05/2024
24	MISCELLANEOUS	The project proponent shall upload the status of comp stipulated environment clearance conditions, including monitored data on their website and update the same of basis.	results of
DDc	Submission: Being Complied		
The enconditi	nvironmental clearance and status of	f compliance of the stipulated environment clearance data uploaded and updated on regular basis on the website qehs.html	Date: 29/05/202
The encondition of the	nvironmental clearance and status or ions, including results of monitored	data uploaded and updated on regular basis on the website	29/05/202 ated data and I above may
The encondition of the PPs	nvironmental clearance and status or ions, including results of monitored company http://orissametaliks.com/	data uploaded and updated on regular basis on the website /qehs.html Concealing factual data or submission of false/fabrica failure to comply with any of the conditions mentioned result in withdrawal of this clearance and attract action	ated data and above may under the
The encondition of the PPs	nvironmental clearance and status or ions, including results of monitored company http://orissametaliks.com/ Statutory compliance Submission: Agreed to Comply	data uploaded and updated on regular basis on the website /qehs.html Concealing factual data or submission of false/fabrica failure to comply with any of the conditions mentioned result in withdrawal of this clearance and attract action	ated data and above may under the Date: 29/05/2024
PPs Agreed PPs In comfrom 2 (Finish Ltd., h	Submission: Agreed to Comply d and noted. Submission: Being Complied appliance to this point, TOR obtained applied to the point, TOR obtained and status of monitored company http://orissametaliks.com/	Concealing factual data or submission of false/fabrica failure to comply with any of the conditions mentioned result in withdrawal of this clearance and attract action provisions of the Environment (Protection) Act, 1986. No further expansion or modifications in the plant shout without prior approval of the Ministry of Environment (Climate Change (MoEF&CC)). If from MoEFCC for expansion of Integrated Steel Plant to Integrated Steel Plant of capacity 4.2 million TPA tive Power Plant by M/s. Orissa Metallurgical Industry Pvt. 8A1001WB5596583E issued vide file no. IA-J-	ated data and above may under the Date: 29/05/202

Ltd. su 13.10.2	abmitted to DM, Paschim Medinipur	mation letters are already submitted to IRO,	Date: 29/05/2024
28	MISCELLANEOUS	The project proponent shall inform the Regional Of the Ministry, the date of financial closure and final ap project by the concerned authorities, commencing the development work and start of production operation by	proval of the land
The co	Submission: Being Complied ompany is a private company and no fen started after getting NOC from William (NOC)	finance is needed from outside. Land development work BPCB.	Date: 29/05/2024
29	Statutory compliance	The Ministry reserves the right to stipulate addition found necessary at subsequent stages and the project implement all the said conditions in a time bound ma Ministry may revoke or suspend the environmental climplementation of any of the above conditions is not satisfactory.	proponent shal nner. The learance, if
	Submission: Agreed to Comply d and noted.		Date: 29/05/2024
30	Statutory compliance	Any appeal against this environmental clearance sh National Green Tribunal, if preferred, within a period prescribed under Section 16 of the National Green Tr 2010.	of 30 days as
	Submission: Agreed to Comply d and Noted.		Date: 29/05/2024
31	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall monitor regularly ground at least twice a year (pre and post-monsoon) at suffice piezometers/sampling wells in the plant and adjacent labs recognized under Environment (Protection) Act, NABL accredited laboratories.	ient numbers o areas through
PPs (Monito accred Risha (concer	MONITORING AND PRESERVATION Submission: Being Complied oring of ground water quality carried ited lab.) in March 2024 at Kantapal Village. It is observed that the ground	at least twice a year (pre and post-monsoon) at suffice piezometers/sampling wells in the plant and adjacent labs recognized under Environment (Protection) Act, NABL accredited laboratories. by M/s Qualissure laboratory Services, Kolkata (NABL Village, Mathura Kismat Village, Latibpur Village & d water samples showed no alarming levels of pollutant forming to the prescribed drinking water standard (IS	ient numbers o areas through 1986 and Date:
PPs (Monito accreding Risha Concention 10500:	MONITORING AND PRESERVATION Submission: Being Complied oring of ground water quality carried ited lab.) in March 2024 at Kantapal Village. It is observed that the ground tration and all the samples were confirmation.	at least twice a year (pre and post-monsoon) at suffice piezometers/sampling wells in the plant and adjacent labs recognized under Environment (Protection) Act, NABL accredited laboratories. by M/s Qualissure laboratory Services, Kolkata (NABL Village, Mathura Kismat Village, Latibpur Village & d water samples showed no alarming levels of pollutant forming to the prescribed drinking water standard (IS	Date: 29/05/2024
PPs 3 Monito accred Risha concen 10500:	MONITORING AND PRESERVATION Submission: Being Complied oring of ground water quality carried ited lab.) in March 2024 at Kantapal Village. It is observed that the ground stration and all the samples were confected 2012). The ground water analysis reputation water analysis reputation water analysis reputation. WATER QUALITY MONITORING AND PRESERVATION Submission: Being Complied oject is still under construction phase	at least twice a year (pre and post-monsoon) at suffice piezometers/sampling wells in the plant and adjacent labs recognized under Environment (Protection) Act, NABL accredited laboratories. by M/s Qualissure laboratory Services, Kolkata (NABL Village, Mathura Kismat Village, Latibpur Village & d water samples showed no alarming levels of pollutant forming to the prescribed drinking water standard (IS port is uploaded. Garland drains and collection pits shall be provided pile to arrest the run-off in the event of heavy rains and and sufficient piles.	Date: 29/05/2024

Project	Submission: Agreed to Comply t is still under the construction phase are at the entrance of the plant gates and was	nd the tyre washing facilities is under construction ill be constructed by October 2024.	Date: 29/05/2024
34	ENERGY PRESERVATION MEASURES	Provide solar power generation on roof tops of builight system for all common areas, street lights, park project area and maintain the same regularly;	
Project Plant i	nternal road, near HR & Admin office SMS unit. In phase wise more solar lig	olar street light is provided at potential area i.e. in DRI (common area); Hutment area (STP-site), Construction ht will be installed in parallel with implementation of	
35	WASTE MANAGEMENT	An attrition grinding unit to improve the bulk dens granulated slag from 1.0 to 1.5 Kg/l shall be installed river sand in construction industry.	
Blast f	Submission: Agreed to Comply furnace is still not implemented. Post in or making cement in associate company	replementation of the BF, the slag generated will be cement grinding plant of the Group.	Date: 29/05/2024
36	WASTE MANAGEMENT	Used refractories shall be recycled as far as possib	le.
Refract which C0144	consent to operate obtained from West 053 dated 17.10.2023. The life of the re	I DRI i.e. 2 x 500 TPD + 2 x 350 TPD DRI kiln for Bengal Pollution Control Board vide CTO no. efectories is 02 years (average). The used refectories of the associate company of the Group. Oil Collection pits shall be provided in oil cellars to	Date: 29/05/2024
37	WASTE MANAGEMENT	reuse/recycle spilled oil. Oil collection trays shall be coils on saddles in cold rolled coil storage area.	
Rolling	nto consideration. Oil collection pits w	and in design phase of the rolling mill the said point is ill be provided in oil cellars to collect and reuse/recycle	Date: 29/05/2024
38	GREENBELT	The project proponent shall prepare GHG emission the plant and shall submit the programme for reduction including carbon sequestration by trees.	
GHG e Envote Expans MW C	ech and Management Consultancy Pvt. sion of Integrated Steel Plant (1.0 Milli	repared by the NABET accredited consultant Centre fo Ltd., Bhubaneswar during EIA study of proposed on TPA To 2.0 Million TPA Finished Steel) With 385 emissions inventory is already submitted to IRO, MPL/JUNE 2023 dated 25.05.2023.	Date: 29/05/2024
39	Human Health Environment	Occupational health surveillance of the workers sh regular basis and records maintained.	all be done on a
The oc	has been done and records are maintain	orkers employed during operation & construction ed as per the Factories Act. X-ray, audiometry test and employed during operation & construction phase and	Date: 29/05/2024

40	MISCELLANEOUS	The company shall have a well laid down environme duly approve by the Board of Directors. The environm should prescribe for standard operating procedures to be checks and balances and to bring into focus any infringements/deviation/violation of the environmental wildlife norms / conditions. The company shall have do freporting infringements / deviation / violation of the / forest / wildlife norms / conditions and / or sharehold holders. The copy of the board resolution in this regard submitted to the MoEF&CC as a part of six-monthly re-	ental policy nave proper / forest / efined system environmenta ers / stake I shall be
The co directo proper environ reporting and / or	ors. The environmental policy should prochecks and balances and to bring into framental/ forest/wildlife norms/ condition ginfringements/ deviation/violation or	ironmental policy duly approved by the board of escribe for standard operating procedures to have focus any infringements/ deviation/ violation of the ons. The company shall have defined system of f the environmental/forest/ wildlife norms/ conditions by is already submitted to IRO, MoEF&CC vide letter 25.05.2023.	Date: 29/05/2024
41	MISCELLANEOUS	The project proponent shall abide by all the commitmer recommendations made in the EIA/EMP report, community during Public Hearing and also that during their present Expert Appraisal Committee.	itment made
	Submission: Being Complied and being complied.		Date: 29/05/2024
42	MISCELLANEOUS	The PP shall put all the environment related expenditure related to Action Plan on the PH issues, ar commitments made in the EIA/EMP Report etc. in the site for the information to public/public domain. The P the information on the left over funds allocated to EMI committed in the earlier ECs and shall be carried out a next three years, in the company web site for the information/public/public domain.	nd other company web P shall also po P and PH as and spent in
Expend Report		issues, and other commitments made in the EIA/EMP apliance report and is uploaded on companies' website	Date: 29/05/2024
43	WATER QUALITY MONITORING AND PRESERVATION	Sewage Treatment Plant shall be provided for treatm wastewater to meet the prescribed standards.	ent of domest
Domes	Submission: Being Complied stic waste water treated in STP (50 KLE pelt development.	D). After treatment it is reused for dust suppression and	Date: 29/05/2024
44	Noise Monitoring & Prevention	Noise pollution shall be monitored as per the prescribe Pollution (Regulation and Control) Rules, 2000 and regard shall be submitted to Regional Officer of the M of six-monthly compliance report.	oort in this
The an M/s. In the Act	ndicative Consultant India, Haldia accre tion Taken Report to Sub-Regional Offi	th of January 2024 by third party monitoring agency edited laboratory and report has been submitted with ice of the ministry, Kolkata vide letter no03.2024. Again, Noise level has been monitored at	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. **ENERGY PRESERVATION** Use torpedo ladle for hot metal transfer as far as possible. If ladles 45 **MEASURES** not used, provide covers for open top ladles. **PPs Submission:** Agreed to Comply Date: Noted and will be complied with during project implementation stage. Only 2 x 500 TPD + 2 x 350 29/05/2024 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. **ENERGY PRESERVATION** 46 Restrict Gas flaring to < 1%. **MEASURES** Date: **PPs Submission:** Agreed to Comply 29/05/2024 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. Carbon recovery plant to recover the elemental carbon present in 47 WASTE MANAGEMENT GCP slurries for use in Sinter plant shall be installed. **PPs Submission:** Agreed to Comply Date: Blast furnace is still not implemented and will be implemented in phase manner. Dry gas cleaning 29/05/2024 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. 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 **GREENBELT** strategies. Further, the report shall also contain time bound action 48 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. Date: **PPs Submission:** Complied 29/05/2024 Reply to the subject condition is already stated in point no. ii under Specific Conditions. The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) 49 **MISCELLANEOUS** 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 Date: The criteria pollutants level namely; PM10, PM2.5, SO2, NOx (ambient levels as well as stack 29/05/2024 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. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions 50 **MISCELLANEOUS** on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.

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.			Date: 29/05/2024	
51	MISCELLANEOUS	The project proponent shall submit the environment each financial year in Form-V to the concerned State Control Board as prescribed under the Environment Rules, 1986, as amended subsequently and put on the company.	Pollution (Protection)	
Agreed operate Pollution for fina Septen	e for the project i.e. $2 \times 500 \text{ TPD} + 2 \times 500 \text{ CO}$ on Control Board vide CTO no. C014 ancial year 2023-2024 will be submitted	ct is still under construction phase. The first consent to x 350 TPD DRI kiln for obtained from West Bengal 4053 dated 17.10.2023. The environmental statement ed in prescribed format to WBPCB on or before 30th be submitted to Regional Office of the MoEF&CC with	Date: 29/05/2024	
52	Statutory compliance	The above conditions shall be enforced, inter-alia a provisions of the Water (Prevention & Control of Po 1974, the Air (Prevention & Control of Pollution) Ac Environment (Protection) Act, 1986, Hazardous and (Management and Transboundary Movement) Rules Public Liability Insurance Act, 1991 along with their and Rules and any other orders passed by the Hon'ble of India / High Courts and any other Court of Law re subject matter.	Illution) Act, et, 1981, the Other Wastes , 2016 and the amendments e Supreme Cou	
	Submission: Agreed to Comply d and Noted.		Date: 29/05/2024	
53	MISCELLANEOUS	The Regional Office of this Ministry shall monitor the stipulated conditions. The project authorities shot cooperation to the officer (s) of the Regional Office I requisite data / information/monitoring reports.	uld extend full	
	Submission: Agreed to Comply d and Noted.		Date: 29/05/2024	
54	AIR QUALITY MONITORING AND PRESERVATION	Appropriate Air Pollution Control (APC) system sl for all the dust generating points including fugitive d vulnerable sources, so as to comply prescribed stack fugitive emission standards.	ust from all	
The process of the CPP 60 ESP, Benefit of the	O MW is in operation after obtaining value of the same installed with operational including fugitive dust from all vulner	ly 2 x 350 + 2 x 500 TPD DRI along with WHRB based valid CTO from WBPCB. Appropriate APC system like al unit and will be provided for all the dust generating rable sources for under construction project. iven in point no. xxxvi of Specific condition.	Date: 29/05/2024	
The process of the CPP 60 ESP, Benefit points	oject is still in construction phase. Onl O MW is in operation after obtaining value of the state valid CTO from WBPCB. Appropriate APC system like all unit and will be provided for all the dust generating rable sources for under construction project.	29/05/2024 ion and		

AIR QUALITY MONITORING AND PRESERVATION

56

Land-based APC system shall be installed to control coke pushing emissions.

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.

Date: 29/05/2024

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.



361, Prantick Pally, 45/361, Bose Pukur Road, Kolkata - 700107

Email: qualissure@gmail.com Mob. No.: 9831287086

9830093976

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

SI. 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. Shoone

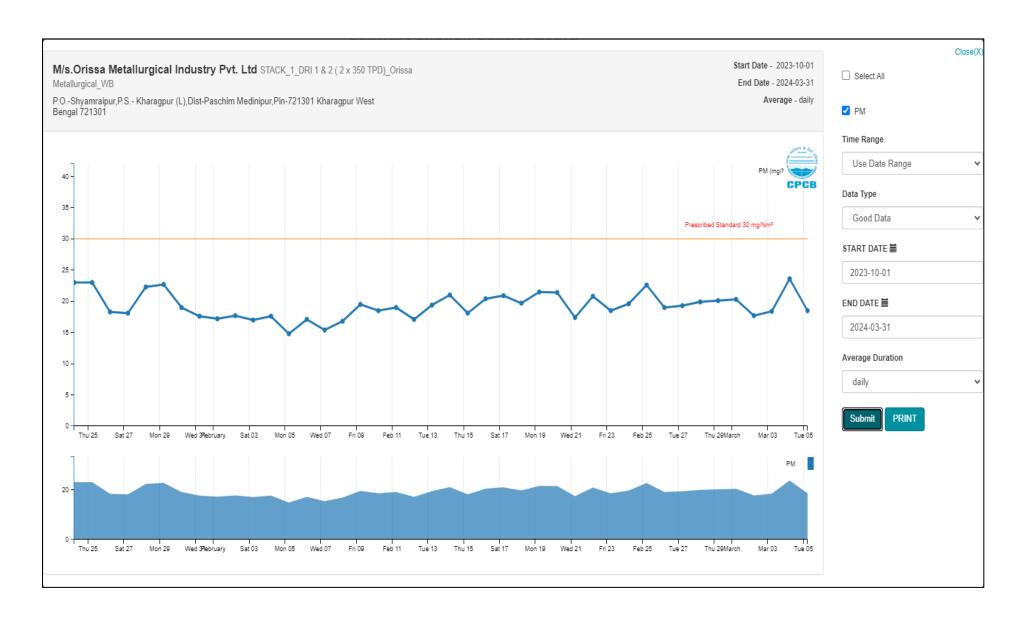
-----End of the Report-----

for Qualissure Laboratory Services Reviewed & Authorized By

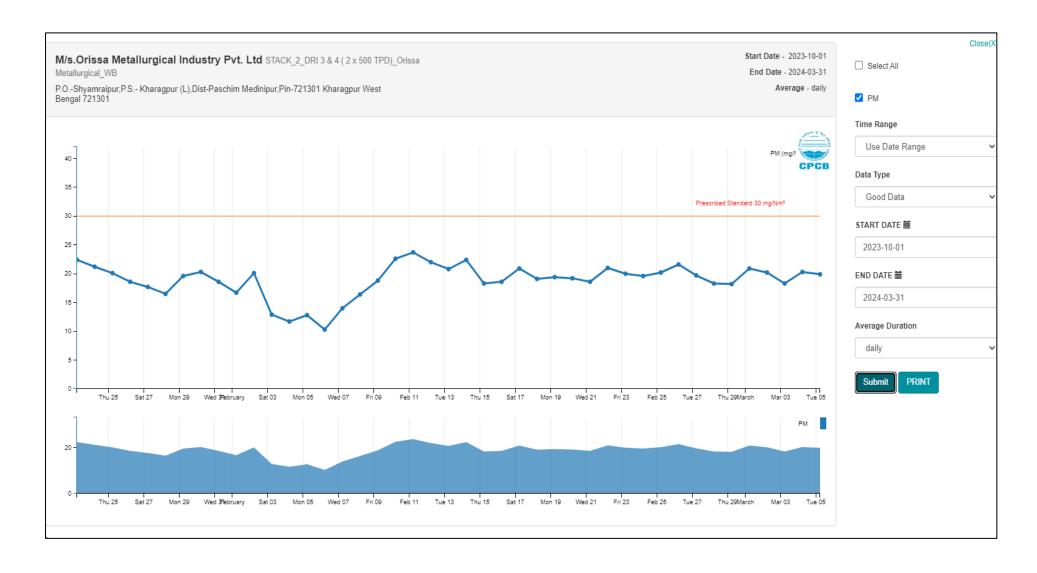
De Banefu Bishnupriya Banerjee, Chemist (Authorized Signatory)

- 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



ONLINE CONTINUOUS EMISSION MONITORING SYSTEM



ANNEXURE-III

Environmental

Laboratory



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/14

Name of Company : Orissa Metallurgical Industry Private Limited

Sample Description : Stack Monitoring-DRI-2 X 350 TPD

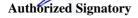
Date of Monitoring : 04.11.2023

Sample Collected by : Mr. B. Samantaray

Stack Height : 79 meter

STACK EMISSION REPORT

SL. PARAMETERS		METHOD NO.	RESULTS		
NO.					
1.	Flue Gas Temperature (⁰ 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	IS 11255 (Part – 1) & ASTM D	:	14.84	
	Matter (mg/Nm ³)	3685/D 3685M			



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,



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.	PARAMETERS	METHOD NO.	RESULTS		
NO.					
1.	Flue Gas Temperature (⁰ 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	IS 11255 (Part – 1) & ASTM D	:	20.99	
	Matter (mg/Nm ³)	3685/D 3685M			



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.

Environmental

Laboratory Seal of 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.

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, ,Serampurgia, Mollarchak, Katapole, Tarabamni And Dhularchak, Village –Gokulpur, P.O – Shyamraipur, P.S – Kharagpur (L) Dist. Paschim Medinipur, West Bengal E.C. No. – IA – 11011/56/2017-IA-II (I) dated:					
	b)	Environment Clearance Nos. :	E.C. No. 11.10.202		L/56/2017-IA-I	I (I) dated :		
2	Loc Sta	ation, Block/ Sub. Div./ Dist./ te:	Village - Go		mat, Radhanagar nyamraipur, P.S , West Bengal			
3	Add	lress for communication :	1, Garstin Kolkata - 70		use, 3rd Floor, F	Room No - 3B,		
		sting Vegetation in the area/ ion :						
4	a)	Species (trees/shrubs/grasses/climbers)	Vacant Land	i				
	b)	Major prevalent species of each type						
	Lan	d Coverage by the project						
5	a)	Total area under the project	147.71 Ha					
	b)	Area covered for basic infrastructure (roads/building/factory etc.)	Project is still in construction phase after obtaining valid NOC from WBPCB vide NOC no – 172028 dated 06.02.2023					
	Det	ails about natural vegetation	100 % Vaca					
	a)	Name and number of tree/species failed	NA					
6	b)	Name and number of plant species still available in the area	NA	NA				
	c)	By protecting the area will indigenous stock come up	NA					
	d)	Extend of greenbelt developed	40.28 Ha (2	7.27%)				
	Pla	ntation required to be carried out as	per					
	a)	Conditions of Environmental Clearance in ha./Nos.	49.10 Ha (3	3.24%)				
7	b)	Conditions for forest act (c) Clearance in ha./Nos.	NA					
	c)	Voluntary in no. for green belt development in nearby area	3000 nos.					
	Det	ails of Plantation						
	a)	Plantation Details (Category wise & methodology used)		Plantation	Quan			
8		Survival of Plantation	Oct'23	3-Mar'24 FY: 2021-22	16,8 FY: 2022-23	FY: 2023-24		
5		Total seeding / Plantation (No.)			35,000	33,000		
	b)	Survival Trees (No) as on date from da	te of FC	32,700 27,795	31,500	29,702		
		Survival Frees (No) as on date from da	CC 01 LC	85%	90%	90%		
9		ency carrying out plantation and intenance	Our own ho		ment & 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	SI. 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

MORKZONE AIR MONITORING REPORT

for

Ms. Orissa Netallurgical 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

f 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
Name of the		Date of Execu

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.

1.0

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.



P 1/2

INDICATIVE CONSULTANT INDIA

.0 DISCUSSION:

2

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

Results of inorganic dust and gases are based on the exposure of 8 lirs. 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:

No recommendation with respect to result of Workzone monitoring in Coal Handling Area ACKNOWLEDGEMENT: 4.0

- a) Mr. Natabara Biswal (AGM- Environment & Pollution)
- b) Mr. Ram Kishore Verma (Manager- Environment & Pollution)
- 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

For, INDICATIVE CONSULTANT INDIA

Competent Person under Factories Act 1948: Section 36

Ph-03224-275765

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

INDICATIVE CONSULTANT INDIA

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

FORM NO.-30

e-mail: jayantasarkar67/agmail com/indicativeconsultantindia/agmail com TABLE NO.-1

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.

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

Particular of Sampling:

	_	-	-							
Name	(in Block letters)		,	1	TEX	TX TE				
Signature	Signature of person taking Samples		Charles War							
	Remarks		Below		Below PEL Below		Below	Below		
Number of workers exposed at the location	Short term	1 xposure	į					,		
Number o exposed at t	Continuous Short	Exposure	20 (per shift)	20	(ber shift)	20 (per shift)	20 (per shift)	20 (per shift)		
Reference	Method					See Annexure-1				
Concentration	2nd Schedule	(Middle)	5.0		0.01	5.0	09	See the TWA concentration in terms of		
mation	Avg	1	2.723		096.9	0.011	0.014	0.085		
Airborne Contamination	Range me/M ³		2.587 2.698 2.883	6.874	7.052	0.010 0.012 0.010	0.014 0.015 0.014	0.078 0.084 0.092		
Airbo	No of Sample		3	,	1	М	3	т Т		
Date & Time Sampling of Instrument Monitoring Used			See Annexure-							
			29.12.2023 09:00 AM to 05:00 PM							
Identified		Respirable	Particulate Matter (RPM/ PM10)	Total Suspended	(TSPM)	Sulphur Di oxide (SO2)	Oxides of Nitrogen (NOx)	Quartz Silica		
Location / Operation Monitoring	Q				COAL	AREA				
S No					-	1				

PEL - Permissible Exposure Limit.

Calculated from % of Quartz Silica in terms of RPM

TWA concentration in terms of RPM =

Authorized Signatory

For INDICALIVE CONSULTANT INDIA

ANNEXURE - 1

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

4. METHOD OF ANALYSIS:

- Respirable Particulate Matter (RPM): A) Method of air sampling and analysis as per IS:5182(Part – IV) 1999.
- 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 15:5182 (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.

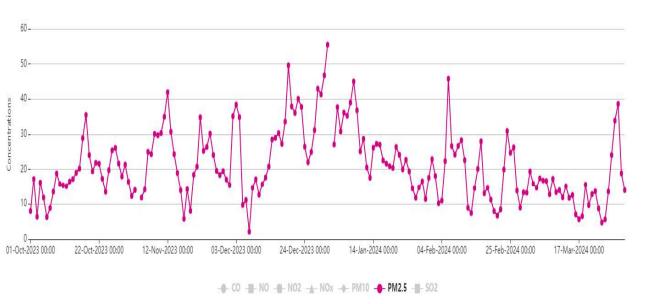
- i) Respirable Dust Sampler with Gaseous Attachment
- ii) UV-Vis Double Beam Spectrophotometer.
- iii) Electronic Digital Balance.
- iv) Hot Air Oven
- v) Desiccator
- vi) Hydrometer / Dry Bulb- Wet Bulb Temperature Indicator Meter
- vii) Digital Anemometer



CAAQMS DATA (OCOBER 2023 to MARCH 2024)

LOCATION : KALYANPUR VILLAGE

Parameters : PM 2.5



LOCATION : KALYANPUR VILLAGE

Parameters : PM 10



 $\underline{\lor}$

LOCATION : KALYANPUR VILLAGE

Parameters : SO2



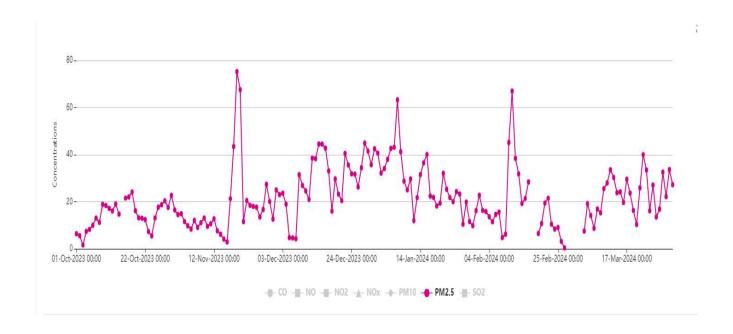
LOCATION : KALYANPUR VILLAGE

Parameters : NOx



LOCATION : RAJOGRAM

Parameters : PM2.5



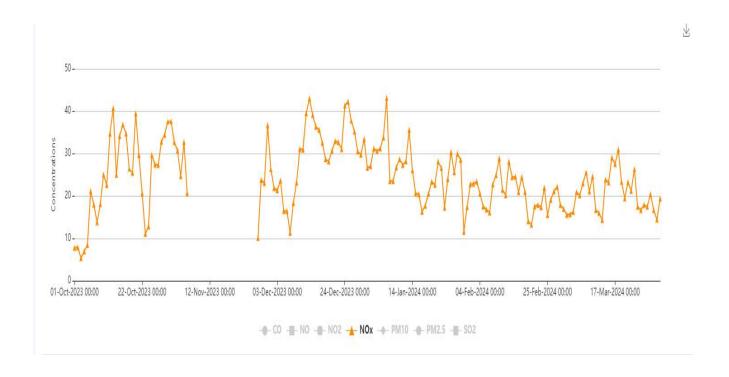
LOCATION : RAJOGRAM

Parameters : SO2



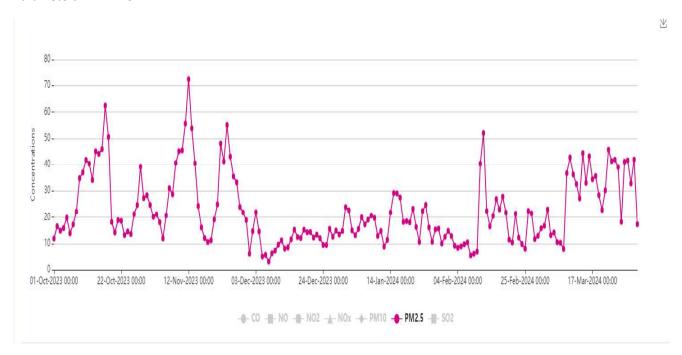
LOCATION : RAJOGRAM

Parameters : NOx



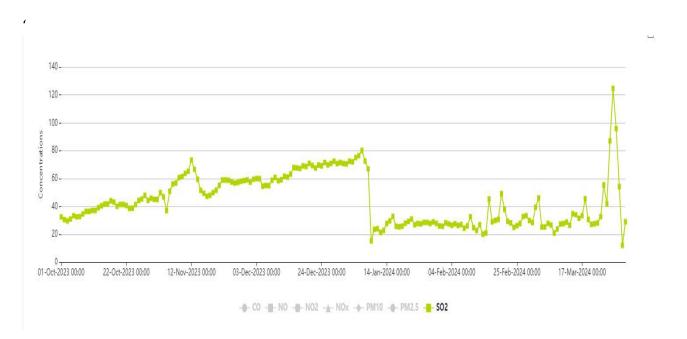
LOCATION : BARKOLA

Parameters: PM2.5



LOCATION : BARKOLA

Parameters : SO2



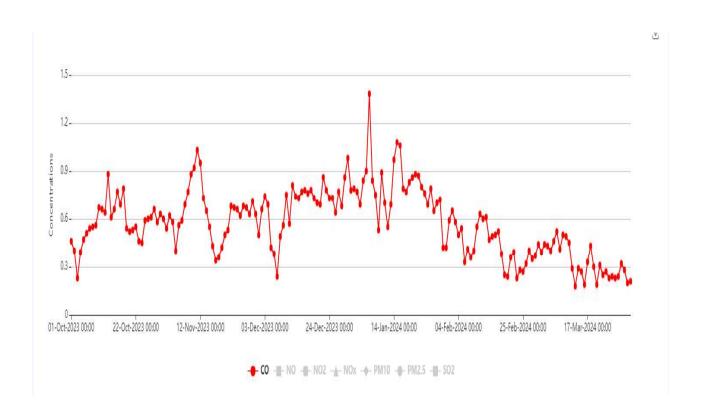
LOCATION : BARKOLA

Parameters : NOx



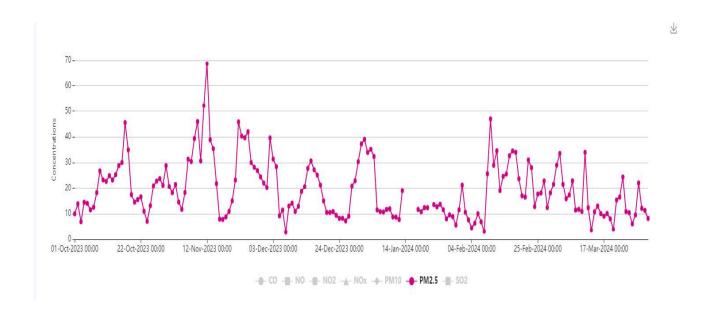
LOCATION : BARKOLA

Parameters : CO



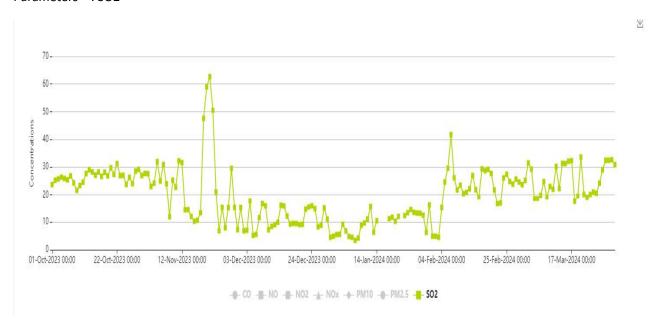
LOCATION : PANCHRULIA

Parameters : PM 2.5



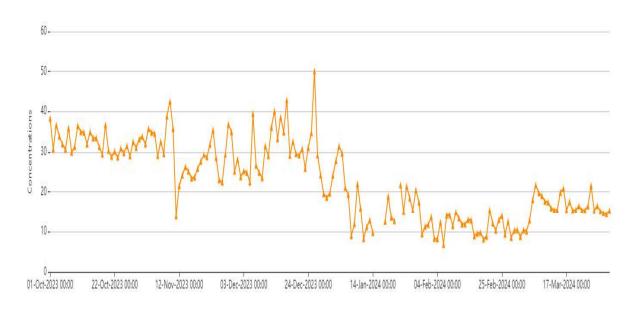
LOCATION : PANCHRULIA

Parameters : SO2



LOCATION : PANCHRULIA

Parameters : NOx

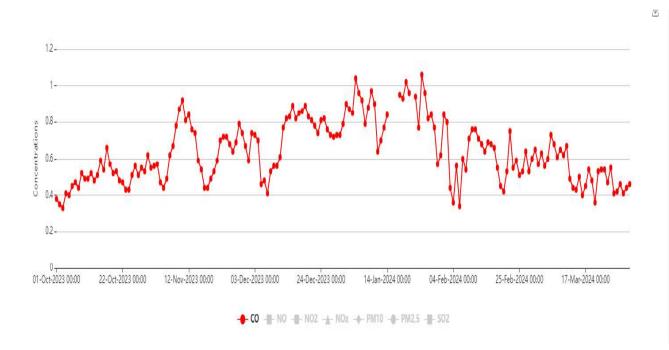


(*)

--- CO --- NO --- NO2 --- NOX --- PM10 --- PM2.5 --- SO2

LOCATION : PANCHRULIA

Parameters : CO









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-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.

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

: QLS/P-34/23-24/C/13

: 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

\$I. No.	Pollutants	Result	LIMIT	Method of Test Reference
1	Particulate matter (<10μm) in μg/m³	79	100	IS: 5182 (Part-23)-(RA-2017)
2	Particulate matter (<2.5μn., in μg/m³	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/m³	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. Sterra

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.







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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

SI. No.	Pollutants	Result	LIMIT	Method of Test Reference
1	Particulate matter (<10μm) in μg/m³	53	100	IS: 5182 (Part-23)-(RA-2017)
2	Particulate matter (<2.5μm) in μg/m³	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 μ g/m ³	22.4	80	iS: 5182 (Part- 6)- (RA-2017)
5	Carbon Monoxide (CO) in μg/m³	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. Shoome

for Qualissure Laboratory Services
Reviewed & Authorized By

Benimadhab Gorai, Chemist (Authorized Signatory)

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

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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

SI. No.	Pollutants	Result	LIMIT	Method of Test Reference
1	Particulate matter (<10μm) in μg/m³	55	100	IS: 5182 (Part-23)-(RA-2017)
2	Particulate matter (<2.5µm) in µg/m³	33	60	USFPA 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/m³	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. Shoone

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.
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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

SI. No.	Pollutants	Result	LIMIT	Method of Test Reference
1	Particulate matter (<10μm) in μg/m³	52	100	IS: 5182 (Part-23)-(RA-2017)
2	Particulate matter (<2.5μm) in μg/m³	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/m³	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. Steone

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.

U.L.R. No.: TC1100323000000621F

Sample Ref. ID

Date of Sampling

Date of Receiving

Analysis Started On

Analysis Completed On Time of Sampling

Report Date



GREENVISION



: AS-196-2023(1)

: 04.01.2024

: 29.12.2023

: 31.12.2023

: 01.01.2024

: 02.01.2024

: 08:20 am to

04:20 pm

(A leading environmental research laboratory)
Recongnized 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

Report No. :

: GV/AR/23-24/370

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 1 & 2

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 (°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/m³	657.24	IS: 5182 (Part 4),1999
02.	Concentration of SO ₂	μg/m³	7.94	IS: 5182 (Part 2),2006
03.	Concentration of NO ₂	μg/m³	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.

Reviewed by
(Sabyasachi Shyam Roy Chowdhury)

Quality Manager

Sabyasachi Shyam Roy Chow 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.

Page 1/1

End of the report.....

City Office: 84/10, Roy Bahadur Road, Behala, Kolkata-700 034, Ph.: 9433158173

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





(A leading environmental research laboratory) Recongnized by West Bengal Pollution Control Board

: AS-196-2023(2)

: 04.01.2024

: 29.12.2023

: 31.12.2023

: 01.01.2024

: 02.01.2024

: 08:50 am to

04:50 pm

U.L.R. No.: TC1100323000000622F

Sample Ref. ID

Date of Sampling

Date of Receiving

Analysis Started On

Analysis Completed On Time of Sampling

Report Date

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

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)

A. METROLOGICAL INFORMATION

Average Temperature (°C)

Barometric Pressure (mm of Hg): 756.0

DECLUT OF ANALYSIS

SI. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of TSPM	μg/m³	594.18	IS: 5182 (Part 4),1999
02.	Concentration of SO ₂	μg/m³	7.72	IS: 5182 (Part 2),2006
03.	Concentration of NO ₂	μg/m³	29.86	IS: 5182 (Part 6),2006

Limit: $(\mu g/m3)$ 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.

(Sabyasachi Shyam Roy Chowdhury)

Quality Manager

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.

Page 1/1

End of the report.....

City Office: 84/10, Roy Bahadur Road, Behala, Kolkata-700 034, Ph.: 9433158173

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





: AS-196-2023(3)

: 04.01.2024

: 29.12.2023

: 31.12.2023

: 01.01.2024

: 02.01.2024

: 09:25 am to

05:25 pm

U.L.R. No.: TC1100323000000623F

Sample Ref. ID

Date of Sampling

Date of Receiving

Analysis Started On

Analysis Completed On Time of Sampling

Report Date

(A leading environmental research laboratory) Recongnized 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

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)

A. METROLOGICAL INFORMATION

Average Temperature (°C)

: 23.5

Barometric Pressure (mm of Hg): 756.0

D DECLUT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of TSPM	μg/m³	636.27	IS: 5182 (Part 4),1999
02.	Concentration of SO ₂	μg/m³	8.12	IS: 5182 (Part 2),2006
03.	Concentration of NO ₂	μg/m³	30.52	IS: 5182 (Part 6),2006

Limit: $(\mu g/m3)$ 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.

R. Rex Chow Reviewed by

(Sabyasachi Shyam Roy Chowdhury)

Quality Manager

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.

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Page 1/1

End of the report.....

City Office: 84/10,Roy Bahadur Road, Behala, Kolkata-700 034, Ph.: 9433158173

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



GREENVISION



TC-11003

: AS-196-2023(4)

: 04.01.2024

: 29.12.2023

: 31.12.2023

: 01.01.2024

: 02.01.2024 : 09:45 am to

05:45 pm

U.L.R. No.: TC1100323000000624F

Sample Ref. ID

Date of Sampling

Date of Receiving

Time of Sampling

Analysis Started On

Analysis Completed On

Report Date

(A leading environmental research laboratory)
Recongnized 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

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

. Construction site of Divi

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 (°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/m³	577.62	IS: 5182 (Part 4),1999
02.	Concentration of SO ₂	μg/m³	8.3	IS: 5182 (Part 2),2006
03.	Concentration of NO₂	μg/m³	30.76	IS: 5182 (Part 6),2006

Limit: $(\mu g/m3)$ 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.

Page 1/1

End of the report.....

City Office: 84/10, Roy Bahadur Road, Behala, Kolkata-700 034, Ph.: 9433158173





: AS-196-2023(5)

: 04.01.2024 : 29.12.2023 to

30.12.2023

: 09.02.2024

: 31.12.2023

: 01.01.2024

: 02.01.2024

: 04:50 pm to

12:50 am

U.L.R. No.: TC1100323000000625F

Sample Ref. ID

Date of Sampling

Date of Receiving Analysis Started On

Time of Sampling

Analysis Completed On

Report Date

(A leading environmental research laboratory) Recongnized 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

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

Name of Customer

Address of Customer

Sample Description

: Fugitive Air

: Water Reservoir Area

Sampling Location

Paschim Medinipur, W.B.

Sample Condition

Location of Testing

Sampling Method

: M/s. Orissa Metaliurgical Industry Pvt. Ltd.

P.O.: Shyamraipur, P.S.: Kharagpur (L),

: Mouza : Amba, Mathurakismat, Vill. : Gokulpur,

: In GMF Filter Paper & Plastic Bottle : At Laboratory

: CPCB, Emission Regulation (Part III)

A. METROLOGICAL INFORMATION

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

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of TSPM	μg/m³	362.48	IS: 5182 (Part 4),1999
02.	Concentration of SO ₂	μg/m³	7.14	IS: 5182 (Part 2),2006
03.	Concentration of NO ₂	μg/m³	29.12	IS: 5182 (Part 6),2006

Limit: $(\mu g/m3)$ 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.

(Sabyasachi Shyam Roy Chowdhury)

Quality Manager

Quality Manager **Authorised Signatory** For, GREEN VISION

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Page 1/1

End of the report.....

City Office: 84/10,Roy Bahadur Road, Behala, Kolkata-700 034, Ph.: 9433158173





: AS-196-2023(6)

: 29.12.2023 to

30.12.2023

: 09.02.2024

: 31.12.2023

: 01.01.2024

: 02.01.2024

: 05:50 pm to 01:50 am

: 04.01.2024

U.L.R. No.: TC1100323000000626F

Sample Ref. ID

Date of Sampling

Date of Receiving Analysis Started On

Time of Sampling

Analysis Completed On

Report Date

(A leading environmental research laboratory) Recongnized 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

Report No.

Name of Customer

Address of Customer

Sample Description

Sampling Location

: Fugitive Air

: Construction of Railway Siding

Sample Condition

Location of Testing

Sampling Method

: GV/AR/23-24/375

: M/s. Orissa Metaliurgical Industry Pvt. Ltd.

: Mouza : Amba, Mathurakismat, Vill. : Gokulpur,

P.O.: Shyamraipur, P.S.: Kharagpur (L),

Paschim Medinipur, W.B.

: In GMF Filter Paper & Plastic Bottle : At Laboratory

: CPCB, Emission Regulation (Part III)

A. METROLOGICAL INFORMATION

Average Temperature (°C)

Barometric Pressure (mm of Hg): 756.0

B. RESULT OF ANALYSIS

Parameters	Unit	Concentration	Test Method
Concentration of TSPM	μg/m³	682.06	IS: 5182 (Part 4),1999
Concentration of SO ₂	μg/m³	, 7.5	IS: 5182 (Part 2),2006
Concentration of NO₂	μg/m³	29.52	IS: 5182 (Part 6),2006
	Concentration of TSPM Concentration of SO ₂	Concentration of TSPM $\mu g/m^3$ Concentration of SO ₂ $\mu g/m^3$	Concentration of TSPM $\mu g/m^3$ 682.06 Concentration of SO ₂ $\mu g/m^3$ 7.5

Limit: $(\mu g/m3)$ 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.

(Sabyasachi Shyam Roy Chowdhury)

Quality Manager

Shyam Roy Chowdhury) Quality Manager

Authorised Signatory For, GREEN VISION

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

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Page 1/1

End of the report.....

City Office: 84/10, Roy Bahadur Road, Behala, Kolkata-700 034, Ph.: 9433158173





: AS-196-2023(7)

: 29.12.2023 to

: 04.01.2024

30.12.2023

: 09.02.2024

: 31.12.2023

:01.01.2024

: 02.01.2024

: 06:25 pm to

02:25 am

U.L.R. No.: TC1100323000000627F

Sample Ref. ID

Date of Sampling

Date of Receiving

Time of Sampling

Analysis Started On Analysis Completed On

Report Date

(A leading environmental research laboratory)

Recongnized 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

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

: In GMF Filter Paper & Plastic Bottle

Sample Condition Location of Testing

: At Laboratory

Sampling Method

: CPCB, Emission Regulation (Part III)

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/m³	546.13	IS: 5182 (Part 4),1999
02.	Concentration of SO₂	μg/m³	8.28	IS: 5182 (Part 2),2006
03.	Concentration of NO₂	μg/m³	30.46	IS: 5182 (Part 6),2006

Limit: $(\mu g/m3)$ 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.

(Sabyasachi Shyam Roy Chowdhury)

Quality Manager

Quality Manager

Authorised Signatory For, GREEN VISION

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

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Page 1/1

End of the report.....

City Office: 84/10,Roy Bahadur Road, Behala, Kolkata-700 034, Ph.: 9433158173





(A leading environmental research laboratory) Recongnized by West Bengal Pollution Control Board

TC-11003

: AS-196-2023(8)

: 29.12.2023 to

: 04.01.2024

30.12.2023

: 09.02.2024

: 31.12.2023

:01.01.2024 : 02.01.2024

: 06:45 pm to 02:45 am

U.L.R. No.: TC1100323000000628F

Sample Ref. ID

Date of Sampling

Date of Receiving

Time of Sampling

Analysis Started On

Analysis Completed On

Report Date

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

Report No. : GV/AR/23-24/377

Name of Customer

Address of Customer

Sample Description

Sampling Location

: Fugitive Air

: Truck Parking Area

Sample Condition

Paschim Medinipur, W.B.

Location of Testing

: At Laboratory

Sampling Method

: M/s. Orissa Metaliurgical Industry Pvt. Ltd.

P.O.: Shyamraipur, P.S.: Kharagpur (L),

: Mouza : Amba, Mathurakismat, Vill. : Gokulpur,

: In GMF Filter Paper & Plastic Bottle

: CPCB, Emission Regulation (Part III)

A. METROLOGICAL INFORMATION

Average Temperature (°C)

Barometric Pressure (mm of Hg): 756.0

B. RESULT OF ANALYSIS

SI. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of TSPM	μg/m³	486.54	IS: 5182 (Part 4),1999
02.	Concentration of SO ₂	μg/m³	8.56	IS: 5182 (Part 2),2006
03.	Concentration of NO ₂	μg/m³	30.68	IS: 5182 (Part 6),2006

Limit: $(\mu g/m3)$ 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

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.

Page 1/1

End of the report.....

City Office: 84/10, Roy Bahadur Road, Behala, Kolkata-700 034, Ph.: 9433158173







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-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/17

Date : 18.04.2024

Sample No. : QLS/P-34/23-24/17-24

Sample Description : Fugitive Air

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 μg/m³
17	DRI 1 & 2		321
18	CPP Area	22.03.2024	178
19	DRI-3 & 4	22.03.2024	270
20	Truck Parking Area		183
21	Construction Site Of SMS		351
22	Water Reservoir Area	22.02.2024	118
23	Construction Of DRI	23.03.2024	256
24	Construction Of Railway Siding		310

NOTE: Fugitive emission Standard - 4000 μg/m³ as per Environment (Protection) rules, 1986

Report Prepared By:

R. Shoons

for Qualissure Laboratory Services
Reviewed & Authorized By

Benimadhab Gorai, Chemist (Authorized Signatory)

- 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.







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-D/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.

ULR No.

Sample No.

: TC627124000000508F

Report No.

: QLS/P-34/23-24/C/27

Date

: 22.04.2024

: 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

Characteristic	Limit as perIS 10500; 2012 Amd. 2	Test Method	Result
al Coliform Bacteria/100ml	Not Detectable	IS 15185-2016 (RA 2021)	Not Detected
E. Coli/100ml	Not Detectable	IS 15185-2016 (RA 2021)	Not Detected
		al Coliform Bacteria/100ml Not Detectable	al Coliform Bacteria/100ml Not Detectable IS 15185-2016 (RA 2021)

2. (3. µ 4. 1 5. 1 6. /	Test Parameter Colour in Hazen Units Odour pH Value at 25°C Turbidity in NTU Total Dissolved Solids (as TDS) in mg/l Aluminium (as Al) in mg/l Ammonia as NH ₃ in mg/l Calcium(as Ca) in mg/l	Test Method IS 3025 (Part 4): 2021 IS 3025 (Part 5): 2022 IS 3025 (Part 11): 2022 IS 3025 (Part 10): 2023 IS 3025 (Part 16): 2023 IS 3025 (Part 55): 2003 (RA 2019)	Acceptable Limit 5 Agreeable 6.5-8.5 1 500	Amd. No. 1 & 2 Permissible Limit 15 Agreeable No Relaxation 5 2000	Result <5 Agreeable 7.33 <1.0
2. (d 3. J 4. 7 5. 7 6. //	Odour pH Value at 25°C Turbidity in NTU Total Dissolved Solids (as TDS) in mg/l Aluminium (as Al) in mg/l Ammonia as NH ₃ in mg/l	IS 3025 (Part 5): 2022 IS 3025 (Part 11): 2022 IS 3025 (Part 10): 2023 IS 3025 (Part 16): 2023 IS 3025 (Part 55): 2003 (RA 2019)	Agreeable 6.5-8.5 1 500	Agreeable No Relaxation 5	Agreeable 7.33
3. µ 4. 1 5. 1 6. /	pH Value at 25°C Turbidity in NTU Total Dissolved Solids (as TDS) in mg/l Aluminium (as Al) in mg/l Ammonia as NH ₃ in mg/l	IS 3025 (Part 11): 2022 IS 3025 (Part 10): 2023 IS 3025 (Part 16): 2023 IS 3025 (Part 55): 2003 (RA 2019)	6.5-8.5 1 500	No Relaxation 5	7.33
4. 1 5. 1 6. /	Turbidity in NTU Total Dissolved Solids (as TDS) in mg/l Aluminium (as-Al) in mg/l Ammonia as NH ₃ in mg/l	IS 3025 (Part 10): 2023 IS 3025 (Part 16): 2023 IS 3025 (Part 55): 2003 (RA 2019)	1 500	5	7.33
5. 1 6. A	Total Dissolved Solids (as TDS) in mg/l Aluminium (as Al) in mg/l Ammonia as NH ₃ in mg/l	IS 3025 (Part 16): 2023 IS 3025 (Part 55): 2003 (RA 2019)	500		<1.0
6.	Aluminium (as AI) in mg/l Ammonia as NH₃ in mg/l	IS 3025 (Part 55): 2003 (RA 2019)		2000	
	Ammonia as NH₃ in mg/I			2000	418
7. A			0.03	0.2	<0.01
	Calcium(as Ca) in mg/l	IS 3025 (Part 34): 1988(RA 2019)	0.5	No Relaxation	<0.5
8. (odiciditi(do ca) ili ilig/i	IS 3025 (Part 40): 2023	75	200	45.0
	Chloride(as CI) in mg/I	IS 3025 (Part 32): 1988 (RA 2019)	250	1000	63.1
10. (Copper(as Cu) in mg/I	IS 3025 (Part 42): 1992(RA 2019)	0.05	1.5	<0.02
11. F	Fluoride(as F) in mg/l	APHA 24th Edition 2023, 4500 F D	1.0	1.5	0.21
12. F	Free Residual Chlorine in mg/l	IS 3025 (Part 26): 2021	0.2	1.0	<0.1
13. I	ron (as Fe) in mg/l	IS 3025 (Part 53): 1988(RA 2019)	1.0	No Relaxation	0.42
14. N	Magnesium(as Mg) in mg/l	APHA 24th Edition 2023, 3500 Mg B	30	100	19.6
15. N	Manganese (as Mn) in mg/l	IS 3025 (Part 59): 2023	0.1	0.3	<0.02
16. N	Nitrate (as NO₃) in mg/I	IS 3025 (Part 34): 1988(RA 2019)	45	No Relaxation	0.70
17. S	Sulphate (as SO ₄) in mg/l	IS 3025 (Part 24): Sec1, 2022	200	400	30.2
18. A	Alkalinity(as CaCO₃)in mg/l	IS 3025 (Part 23): 2023	200	600	194.0
19. T	otal Hardness (as CaCO₃) in mg/l	IS 3025 (Part 21): 2009 (RA 2019)	200	600	184.8
	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
	.ead(as Pb) in mg/I	IS 3025 (Part 47): 1994 (RA 2019)	0.01	No Relaxation	<0.02
23. N	Mercury(as Hg) in mg/l	IS 3025 (Part 48): 1994(RA 2019)	0.001	No Relaxation	<0.01
	Arsenic(as As) in mg/l	IS 3025 (Part 37): 2022	0.01	No Relaxation	<0.001
	inc(as Zn) in mg/l	IS 3025 (Part 49): 1994 (RA 2019)	5	15	
	otal Chromium (as Cr) in mg/l	IS 3025 (Part 52): 2014(RA 2019)	0.05	No Relaxation	0.06 <0.05

Report Prepared By:

for Qualissure Laboratory Services **Reviewed & Authorized By**

for Qualissure Laboratory Services Reviewed & Authorized By

S. Chakraliarly Soumy Chakraborty, Microbiologist (Authorized Signatory)

Bishnupriya Banerjee, Chemist (Authorized Signatory)

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

ULR No.

: TC627124000000509F

Report No.

: QLS/P-34/23-24/C/28

Date

: 22.04.2024

Sample No.

: QLS/P-34/23-24/28

Sample Description

: Ground Water

Sample Mark

: Mathura Kismat Village

Sample Drawn On Date of performance : 23.03.2024 : 26.03.2024-06.04.2024

Ref No. Date

: M 124379552, Dated. 24.02.2024

<u>Analysis Result</u>

(A) Microbiological Analysis

Sl. No.	Characteristic	Limit as perIS 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			
SI. No.	Test Parameter	Test Method	IS 10500:2012	Amd. No. 1 & 2	Danula
	7 (0000000)	rest Method	Acceptable Limit	Permissible Limit	Result
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 NH₃ in mg/I	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/I	IS 3025 (Part 42): 1992(RA 2019)	0.05	1.5	<0.02
11.	Fluoride(as F) in mg/l	APHA 24th 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 24th 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/I	IS 3025 (Part 24): Sec1, 2022	200	400	26.7
18.	Alkalinity(as CaCO₃)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/I	IS 3025 (Part 47): 1994 (RA 2019)	0.01	No Relaxation	<0.02
23.	Mercury(as Hg) in mg/l	IS 3025 (Part 48): 1994(RA 2019)	0.001	No Relaxation	<0.01
24.	Arsenic(as As) in mg/l	IS 3025 (Part 37): 2022	0.001	No Relaxation	<0.001
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
enort E		Quelicours Laborator C	0.03	NO REIGNATION	<u.u3< td=""></u.u3<>

Report Prepared By:

for Qualissure Laboratory Services Reviewed & Authorized By

for Qualissure Laboratory Services Reviewed & Authorized By

Soumy Chakraborty, Microbiologist (Authorized Signatory)

Bishnupriya Banerjee, Chemist (Authorized Signatory)

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

ULR No.

Report No.

: TC627124000000510F

: QLS/P-34/23-24/C/29

Date

: 22.04.2024

Sample No.

: QLS/P-34/23-24/29

Sample Description

: Ground Water

Sample Mark

: Latibpur Village

Sample Drawn On Date of performance : 23.03.2024 : 26.03.2023-06.04.2023

Ref No. Date

: M 124379552, Dated. 24.02.2024

Analysis Result

(A) Microbiological Analysis

Characteristic	Limit as perIS 10500; 2012 Amd. 2	Test Method	Result
Total Coliform Bacteria/100ml	Not Detectable	IS 15185-2016 (RA 2021)	Not Detected
E. Coli/100ml	Not Detectable	IS 15185-2016 (RA 2021)	Not Detected
Γ	otal Coliform Bacteria/100ml	otal Coliform Bacteria/100ml Not Detectable	otal Coliform Bacteria/100ml Not Detectable IS 15185-2016 (RA 2021)

			IS 10500:2012 A	nd. No. 1 & 2	
SI. No.	Test Parameter	Test Method	Acceptable Limit	Permissible Limit	Result
1,	Colour in Hazen Units	IS 3025 (Part 4): 2021	5	15	<5
2.	Odour	IS 3025 (Part 5): 2022	Agraeable	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/I	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/I	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/I	APHA 24th 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/I	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 CaCO₃)in mg/I	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/I	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	<0.001
25.	Zinc(as Zn) in mg/I	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
eport F		Qualissure Laboratory Services		reuro Laborator	

Report Prepared By:

for Qualissure Laboratory Services
Reviewed & Authorized By

S. Chakratorty

for Qualissure Laboratory Services Reviewed & Authorized By

Soumy Chakraborty, Microbiologist (Authorized Signatory)

Bishnupriya Banerjee, Chemist (Authorized Signatory)

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

ULR No.

: TC627124000000511F

Report No.

: QLS/P-34/23-24/C/30

Date

: 22.04.2024

Sample No.

: QLS/P-34/23-24/30

Sample Description

: Ground Water

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 perIS 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

SI. No.	Test Parameter	Test Method	IS 10500:2012 Amd. No. 1 & 2		D !
		rest Method	Acceptable Limit	Permissible Limit	Result
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 3 3 3 3 3 3 3 3 3	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 CI) in mg/I	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 24th 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/I	IS 3025 (Part 53): 1988(RA 2019)	1.0	No Relaxation	0.26
14.	Magnesium(as Mg) in mg/l	APHA 24th 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/I	IS 3025 (Part 47): 1994 (RA 2019)	10.0	No Relaxation	<0.01
23.	Mercury(as Hg) in mg/I	IS 3025 (Part 48): 1994(RA 2019)	0.001	No Relaxation	<0.001
24.	Arsenic(as As) in mg/I	IS 3025 (Part 37): 2022	0.001	No Relaxation	<0.01
25.	Zinc(as Zn) in mg/l	IS 3025 (Part 49): 1994 (RA 2019)	5	15	<0.01
26.	Total Chromium (as Cr) in mg/l	IS 3025 (Part 52): 2014(RA 2019)	0.05	No Relaxation	<0.02

Report Prepared By:

for Qualissure Laboratory Services Reviewed & Authorized By

for Qualissure Laboratory Services
Reviewed & Authorized By

S. Chakraliarly
Soumy Chakraborty, Microbiologist
(Authorized Signatory)

Bishnupriya Banerjee, Chemist (Authorized Signatory)

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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/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		
30.0	52.3	54.3

Report Prepared By:

R. Shoome

for Qualissure Laboratory Services Reviewed & Authorized By

Benimadhab Gorai, Chemist (Authorized Signatory)

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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/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. Shema

for Qualissure Laboratory Services **Reviewed & Authorized By**

Benimadhab Gorai, Chemist (Authorized Signatory)

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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

: QLS/P-34/23-24/25C Sample No. 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

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	Leq dB Night Time	Average dB
59.4	49.3	53.6

Report Prepared By:

R. Sheome

for Qualissure Laboratory Services Reviewed & Authorized By

Benimadhab Gorai, Chemist (Authorized Signatory)

- 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.







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/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

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. Shame

for Qualissure Laboratory Services Reviewed & Authorized By

Benimadhab Gorai, Chemist (Authorized Signatory)

- 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.

The results relate only to the item(s) tested.







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/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		Narayanpur Village	51.6	44.1
26B	22-23.03.2024	Gökülpur Village	51.5	42.3
26C		Panchruliar Village	52.4	43.5

Report Prepared By:

R. Stroma

for Qualissure Laboratory Services
Reviewed & Authorized By

Benimadhab Gorai, Chemist (Authorized Signatory)

Proper

- 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 NETALLURGICAL INDUSTRY PVI. LTD Village-Gokulpur, P.O.-Shyamraipur, P.S.-Kharagpur (L), Dist.-West Midnapore, CW. 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



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).



RECOMMENDATION:

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

ACKNOWLEDGEMENT:

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

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 3948 Section 36

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 OC = 0.7 WB + 0.3 GT

AMBIENT TE	AMBIENT TEMPERATURE		
Dry Bulb	Wet Bulb		
25.0°C	17.0°C		
Wind Velocity: 144 m	n/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 ⁰C	Limit TLV ºC	Reference Method	Remarks	Signature	Name
1.	DRI 1& 2- COOLER DISCHARGE AREA (350 TPD)	29.11.2023 11:00 AM to 11:45 AM	Annexure- I	27ºC	18ºC	22 ⁰ C	19.2ºC	32.2ºC	Annexure- I	Below TLV Limit	Moodful	P. Choudhury

For, 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) $WBGT^{0}C = 0.7 WB + 0.3 GT$

AMBIENT TE	MPERATURE
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	Annexure- I	31 ° C	20 º C	25°C	21.5 ⁰ C	32.2ºC	Annexure- I	Below TLV Limit	Phondha	P. Choudhury

For, INDICATIVE CONSULTANT INDIA

Parbati CONSULTA

Authorized Signatory

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HPL Link Road, Basudevpur, Khanjanchak, 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 ^{9}C = 0.7 wb + 0.5 GT

AMBIENT TE	MPERATURE
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 ℃	Limit TLV ℃	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-	Below TLV Limit	bhowlm	P. Choudhury

For, INDICATIVE CONSULTANT INDIA

Parbati Golui
Authorized Signification

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Haldia

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) $WBGT^{0}C = 0.7 WB + 0.3 GT$

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

SI. No.	Location	Date & Time of Monitoring	Sampling Instrument Use	Dry bulb Temperature (DB)	Wet bulb Temperature (WB)	Globe Temperature (GT)	WBGT ℃	Limit TLV ºC	Reference Method	Remarks	Signature	Name
1.	BOILER AREA (3&4)	29.11.2023 03:00 PM to 04:00 PM	Annexure- I	29ºC	18 º C	22ºC	19.2ºC	32.2⁰C	Annexure- I	Below TLV Limit	Charola	P. Choudhury

For, INDICATIVE CONSULTANT INDIA

Parbat

Authorized Sphilloldy 2

P 4/4

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



HEALTH

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

FORM NO. 17

1. Serial No. in the Register of adult worker: OMPL/OMIN.
2. Name of worker: Ankan Gosh

3. Sex : M

4. Date of Birth : 88 (04 1096.

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

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

Nature of tests & Period of Period	examination and the results thereof	eof		If declared unfit for work			
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ASTHA



Rabindra nagar Midnapore

Ph. No.: 9734473344

DIAGNOSTIC & ANALYTICAL CENTER

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

Date of report: 01.02.2024

Age: 27 Yrs.

EXAMINATION OF BLOOD

INVESTIGATION

(cyanmethaemoglobin)

RESULT UNIT

NORMAL VALUE

HAEMOGLOBIN:

13.2

Sex : Male

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)

21

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)

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.







Midnapore Ph. No.: 9734473344

DIAGNOSTIC & ANALYTICAL CENTER 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

GROUP:

ABO GROUPING: Rh(D)TYPING

"0" 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.





Rabindra nagar Midnapore

Ph. No.: 9734473344

DIAGNOSTIC & ANALYTICAL CENTER E-mail: astha.labmedinipur@yahoo.in

Name: ANAKAN GHOSH

Ref-by Dr.: O. H.C

Date of receipt: 01.02.2024

Age :- 27 yrs.

Sex: Male

Date of report: 01.02.2024

X-RAY REPORT CHEST PA VIEW

- 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 tisuue are unremarkable.

PLEASE CORRELATE CLINICALLY

DR. S. NOTONE

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. Ankan Ghosh

01/02/2024 Date:

27 Years/Male Age / Sex:

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

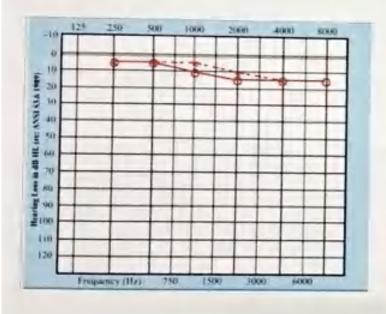
Metaliks)

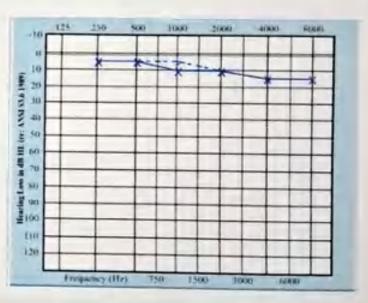
Case History: Hearing check-up.

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

HEALTH

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

FORM NO. 17

1. Serial No. in the Register of adult worker: OMPL/IMEIL
2. Name of worker: AMIT KUMAR LARV

4. Date of Birth: 05/11/1999

3. Sex: M

Medical	Signs and symptoms observed during examination	6										
	Reason for discharge/ transfer to other work	8										
-	Date of leaving/ transfer to other work	7										
	Date of posting	9	14/64/	2023								
	Raw materials, products or by-products likely to be exposed to	2										-
	Nature of job or occupation	4										
	Dangerous process/ operation	3										
	Name of hazardous process	2										
	Department/ works	-	DET/	CPP- Priject	Mech.							

REGISTER

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

Nature of tests & results thereof			The control of the co			Signature with date of the
10	Result Fit/Unfit	Period of Temporary withdrawal from that	Reasons for such withdrawal	Date of declaring him unfit for that work	Date of issuing filmess Certificate	Factory Medical Officer / the Certifying Surgeon
	11	12	13	14	15	16
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Rabindra nagar Midnapore

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

DIAGNOSTIC & ANALYTICAL CENTER

Name: AMIT KR. LARU

Lab. SL. No : 1183(12)

Age: 24 Yrs.

63(12)

Sex : Male

Ref-by Dr. : O. H. C.

Date of receipt :01.02.2024

Date of report: 01.02.2024

EXAMINATION OF BLOOD

INVESTIGATION RESULT UNIT NORMAL VALUE

HAEMOGLOBIN:

12.8

gm/dl.

12 - 18

(cyanmethaemoglobin)

BLOOD GLUCOSE:

RANDOM (R)

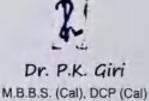
98.0

mg/dl.

70 - 140

End of report

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





Dr. 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



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DIAGNOSTIC & ANALYTICAL CENTER

Name : AMIT KR. LARU

Lab. SL. No : 1183(12)

Age: 24 Yrs.

Ref-by Dr. ; O. H. C.

Date of receipt :01.02.2024

Date of report: 01.02.2024

EXAMINATION OF BLOOD

INVESTIGATION

RESULT

GROUP:

ABO GROUPING : Rh(D)TYPING :

Sex : Male

"O"

Positive (+Ve).

End of report

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

21

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

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Rabindra nagar Midnapore

Ph. No.: 9734473344

DIAGNOSTIC & ANALYTICAL CENTER E-mail: astha.labmedinipur@yahoo.in

Ref-by Dr.: O. H.C Name: AMIT KR. LARU

Date of receipt: 01.02.2024

Date of report: 01.02.2024 Sex: Male Age :- 24 yrs.

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 tisuue are unremarkable.

PLEASE CORRELATE CLINICALLY

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

Mr. Amit Kumar Laru Name:

01/02/2024 Date:

Age / Sex:

24 Years/Male

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

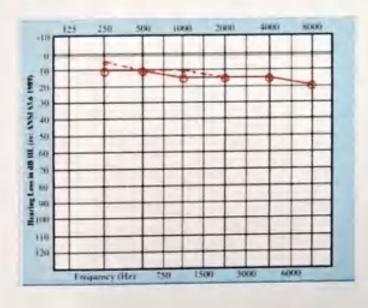
Metaliks)

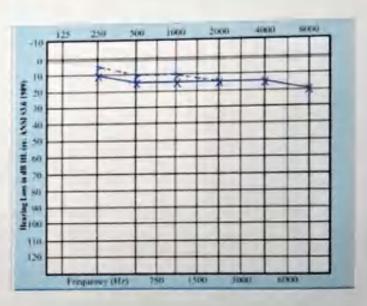
Case History: Hearing check-up.

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

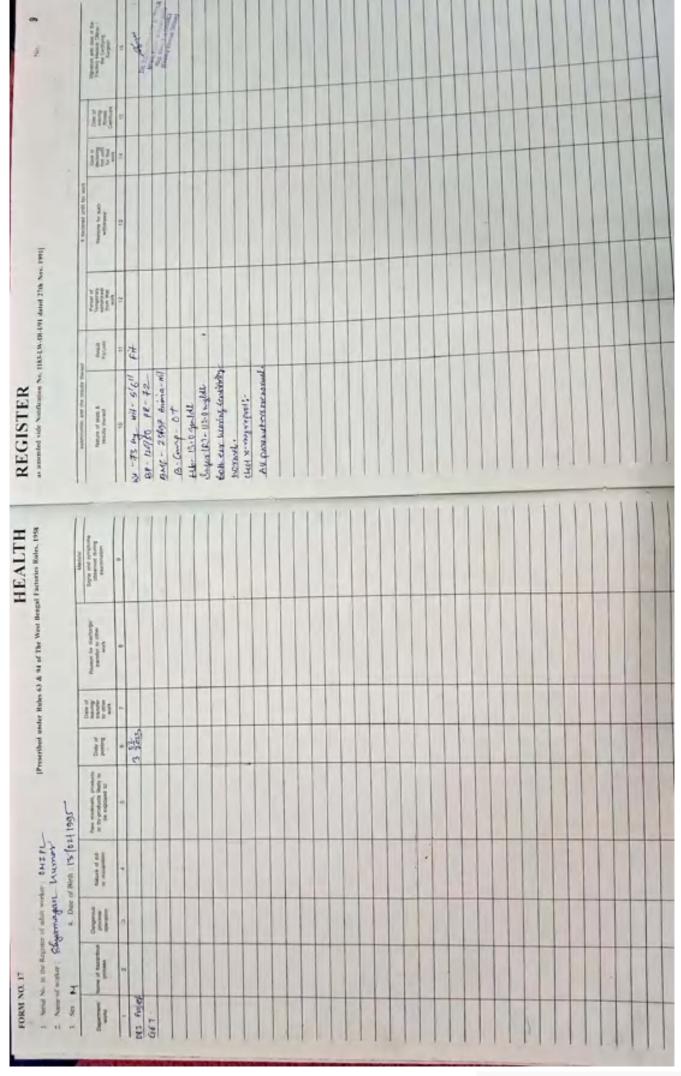
AUDIOLOGIST

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[Prescribed under Rules 63 & 94 of The West Bengal Factories Rules, 1958		Reason for discharge/ transfer to other work	8							-			
der Rules 63		Date of leaving/ transfer to other work	7										
escribed un		Date of posting	9	3 2023	1								
	1661+	Raw materials, products or by-products likely to be exposed to	9										
ker: OMTPL	4. Date of Birth : [75 624 199	Nature of job or occupation	4										
gamagan	4. Date o	Dangerous process/ operation	3										
1. Serial No. in the Register of adult worker: OMIPL. 2. Name of worker: Shyamagan Lumen	I	Name of hazardous process	2										
1. Serial N	3. Sex:	Department/ works	-	DRI . Project	GET .								

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

No.

examination and the results thereof		Period of	If declared unfit for work	-	Date of	Signature with date of the
	Result Fit/Unfit	Temporary withdrawal from that	Reasons for such withdrawal	declaring him unfit for that work	issuing fitness Certificate	Factory Medical Officer / the Certifying Surgeon
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ASTHA



Rabindra nagar Midnapore

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

DIAGNOSTIC & ANALYTICAL CENTER

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 re

Date of report: 01.02.2024

EXAMINATION OF BLOOD ATION RESULT UNIT

NORMAL VALUE

HAEMOGLOBIN: (cyanmethaemoglobin)

INVESTIGATION

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)

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Verified By

Dr. T.K. Chakraborty

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

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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 :

"O"

Rh(D)TYPING

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)

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Dr. T.K. Chakraborty

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Rabindra nagar Midnapore

Ph. No.: 9734473344

Ref-by Dr.: O. H.C Name: SHYAMAGHAN KUNAR

Date of receipt: 01.02.2024

Date of report: 01.02.2024 Sex: Male Age :- 30 yrs.

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