

Six Monthly (JUNE-2024) Compliance Report for Period October 2023 to March 2024 for Expansion of Integrated Steel Plant (1.2 to 2.0 Million TPA Finished Steel) with 270 MW Captive Power Plant

1 message

ORISSA ALLOY <orissaalloysteelprivateltd@gmail.com>

Mon, May 27, 2024 at 4:14 PM

To: ms@wbpcb.gov.in, ms.wbpcb-wb@bangla.gov.in, zokolkatta.cpcb@nic.in, Dr Soma Das <iro.kolkata-mefcc@gov.in>, roez.bsr-mef@nic.in

Bcc: biswanath@rashmigroup.com, Bijayen Srivastava <bijayen.srivastava@rashmigroup.com>, Abhay Gupta <abhay.gupta@orissametaliks.com>, environment.rm13@rashmigroup.co.in

Dear Sir,

With reference to the above, we are here by submitting the six monthly compliance report for the period from October 2023 to March 2024 of EC Identification no- EC22A008WB114687 issued vide letter No. J-11011/169/2017-IA. II (I) dated 10.08.2022 for Expansion of Integrated Steel Plant (1.2 To 2.0 Million TPA Finished Steel) with 270 MW Captive Power Plant located at Mouza – Nandarchalk, Bargai, Shyamraipur & Kanjarichak, Village- Gokulpur, P.O.- Shyamraipur, P.S.-Kharagpur (L), Dist. Paschim Medinipur, W.B. by M/s. Orissa Alloy Steel Pvt. Ltd.

Compliance of previous EC's issued vide F. No. J-11011/169/2017-IA.II (I) dated 12.05.2021; 19.03.2021, 28.01.2020 & 03.04.2019 which are consolidated/updated vide EC letter dated 10.08.2022 are also attached.

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 have also been uploaded on pariveshportal having Compliance ID 70508821 (copy attached).

Hope you will find the same in order.

Yours Faithfully,

Authorised Signatory


For, **M/s Orissa Alloy Steel Private Limited**

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

Tel : 91 33-22894255/ 56

Fax : 91 33-22894254

Mbl. No-07044070948

 OASPL_EC Compliance_JUNE-2024.pdf
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ORISSA ALLOY STEEL PRIVATE LIMITED

CORPORATE ADDRESS: PREMLATA BUILDING, 39 SHAKESPEARE SARANI, 6TH FLOOR, ROOM NO. 3 & 4, KOLKATA - 700 017
CIN:U27320WB2019PTC234383

Ref.: OASPL/ENV_COMPL/JUNE_2024

Date: 23.05.2024

To,

- a) **Regional Office,**
Ministry of Environment, Forests & Climate Change, Bhubaneswar
A/3 Chandrasekharpur,
Bhubaneswar – 751023, Odisha
- b) **Sub Office, Kolkata**
Regional Office, Bhubaneswar,
Ministry of Environment, Forest and Climate Change,
IB-198, Sector-III, Salt Lake City, Kolkata – 700 106

Sub.: Six Monthly (JUNE-2024) Compliance Report for Period October 2023 to March 2024 for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW Captive Power Plant

Ref.: EC Identification no- EC22A008WB114687 issued vide letter no. J-11011/169/2017-IA. II (I) dated 10.08.2022.

Dear Sir,

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Compliance of previous EC's issued vide F. No. J-11011/169/2017-IA.II (I) dated 12.05.2021; 19.03.2021, 28.01.2020 & 03.04.2019 which are consolidated/updated vide EC letter dated 10.08.2022 are also attached.

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- OASPL/ENV COMPL/Dec-2023 dated 29.11.2023 on parivesh portal vide Compliance ID: 26084634 dated 29.11.2023.

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 **Orissa Alloy Steel Private Limited**

ORISSA ALLOY STEEL PRIVATE LIMITED

Authorized Signatory

C.C:-

1. **The Member Secretary,** West Bengal Pollution Control Board, Parivesh Bhawan, 10A Block – LA, Sector – III, Kolkata – 700 91
2. **The Regional Director,** Central Pollution Control Board, (Eastern Zonal Office), 'Southend Conclave', 502, 5th Floor 1582, Rajdanga Main Road, Kolkata- 700 107, West Bengal

Enclosures:-


1. Compliance Report for EC;
2. Detail of Green belt development as Annexure-I.
3. OCEMS data as Annexure-II.
4. Stack Monitoring report as Annexure-III.
5. OHS Record as Annexure-IV.
6. CAAQMS report from all the stations as Annexure-V.
7. Ambient Air Quality Monitoring Report as Annexure-VI.
8. Fugitive Emission Monitoring Report (December 2023 & March 2024) as Annexure-VII.
9. TCLP & Leachate Test report as Annexure-VIII.
10. Effluent Water quality report as Annexure-IX.
11. Ground Water analysis report as Annexure-X.
12. Ambient & Source Noise Monitoring Report as Annexure-XI.

SIX MONTHLY COMPLIANCE REPORT
(JUNE-2024)

FOR

PROJECT NAME

**Expansion of Integrated Steel Plant
(1.2 to 2.0 million TPA Finished Steel)
With 270 MW CPP**

For ORISSA ALLOY STEEL PRIVATE LIMITED

Director / Authorised Signatory

EC DETAILS

1. EC Identification no. **EC22A008WB114687** issued vide F. No. **J-11011/169/2017-IA. II (I)** dated **10.08.2022**
2. F. No. **J-11011/169/2017-IA.II(I)** dated **12.05.2021**
3. F. No. **IA-J-11011/169/2017-IA-II(I)** dated **19.03.2021**
4. F. No. **J-11011/169/2017-IA.II(I)** dated **28.01.2020**
5. F. No. **IA-J-11011/169/2017-IA-II(I)** dated **03.04.2019**

LOCATION

**Mouza- Nandarchak, Bargai, Shyamraipur & Kanjarichak,
Village-Gokulpur, P.O.- Shyamraipur, P.S.-Kharagpur(L),
Dist. Paschim Medinipur, West Bengal**

M/s ORISSA ALLOY STEEL PRIVATE LIMITED

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

Ph No.-033 - 22438518

Email id- orissaalloysteelprivatelt@gmail.com

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

Proposal No	IA/WB/IND/261449/2021
Compliance ID	70508821
Compliance Number(For Tracking)	EC/M/COMPLIANCE/70508821/2024
Reporting Year	2024
Reporting Period	01 Jun(01 Oct - 31 Mar)
Submission Date	24-05-2024
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 Alloy Steel Private Limited
- Name of the project** : Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP
- Location of the project** : Mouza- Nandarchak, Bargai, Shyamraipur & Kanjarichak, Village-Gokulpur, P.O.- Shyamraipur, P.S.-Kharagpur(L), Dist. Paschim Medinipur, West Bengal
- Environmental Clearance details** :
1. Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
 2. Change of name in the Environmental Clearance from M/s Rashmi Alloy Steel Private Limited to M/s Orissa Alloy Steel Private Limited issued vides F. No. J-11011/169/2017-IA.II(I) dated 12.05.2021
 3. Environmental Clearance under the provisions of para 7(ii) of EIA Notification 2006 issued vide F. No. IA-J-11011/169/2017-IA-II(I) dated 19.03.2021
 4. Transfer of Environmental Clearance from M/s Orissa Metaliks Private Limited to M/s Rashmi Alloy Steel Private Limited issued vides F. No. J-11011/169/2017-IA.II(I) dated 28.01.2020
 5. Integrated steel plant (1.2 MTPA) with 225 MW CPP issued vide F. No. IA-J-11011/169/2017-IA-II(I) dated 03.04.2019 to M/s Orissa Metaliks Private Limited
- Period of compliance** : October 2023 to March 2024

S. No.	Conditions	Compliance Status
Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022		
A. Specific Conditions		
i.	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High	Agreed and noted.

For ORISSA ALLOY STEEL PRIVATE LIMITED

Director / Authorised Signatory

	Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.	
ii.	The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.	<p style="text-align: center;">Agreed and being complied.</p> <p>We are complying all the environmental protection measures and safeguards proposed in the documents (EIA/EMP) submitted to the Ministry.</p>
iii.	The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.	<p style="text-align: center;">Agreed and noted.</p> <p>The project is still in implementation phase. The flue gas generated from Coke Oven Plant, DRI plant is utilized in power generation. In order to reduce carbon emission dependency on WHRB based power plant is being practiced and currently 136 MW WHRB DRI based CPP & 42 MW from Coke Oven gas, in total 178 MW is in operation and in future capacity will be increased to 180 MW.</p> <p>Plantation is a suitable method to sequester carbon and 33% of the plant area being developed under greenbelt. An area of around 48.60 hectare has already been covered under greenbelt @ 2500 trees per hectare (1,21,509 nos.) till March 2024.</p> <p>In addition to this 3000 Nos. of saplings on occasion of Safety day were distributed to nearby school children/ villagers for green belt development In Financial year 2023-24.</p> <p>Details of green belt development is attached as Annexure- I.</p>



For ORISSA ALLOY STEEL PRIVATE LIMITED


 Director / Authorised Signatory

iv.	<p>The activities and the action plan proposed by the project proponent to address the issues raised during public hearing and socio-economic issues in the study area shall be completed as per the schedule presented before the Committee and as described in the EIA report in letter and spirit.</p>	<p>Noted and will be complied in time bound manner. In last two financial year Rs. 1,51,17,813 is spent under CSR/CER head on various activities in nearby villages to address the issues raised during public hearing and socio-economic issues in the study area.</p> <p>Area of Work:</p> <ul style="list-style-type: none">• Financial support to School,• Drinking Water Facility,• Village Road Construction/ Repairing• Construction of community center, etc.• Development of play ground• Paver footpath construction near Bargai Health care• Construction / Repairing of community prayer center, etc.• Plantation at Road side.• Installation of Street Light. <div data-bbox="836 951 1421 1188"></div> <p data-bbox="873 1199 1386 1230">Construction of Community Prayer Centre</p> <div data-bbox="828 1268 1421 1640"></div> <p data-bbox="873 1650 1386 1682">Construction of Community Prayer Centre</p>
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For ORISSA ALLOY STEEL PRIVATE LIMITED

Director / Authorised Signatory

		 <p style="text-align: center;">Construction of Tribal Prayer Base</p>
v.	Water bodies exist within the study area from the project site. The water bodies shall not be disturbed. Landscaping shall be done on both embankments, with green belt covering 10 m land on both sides. This shall be in addition to the 33% green belt development.	<p>No water body will be disturbed which exists within the study area from the project site.</p> 
vi.	Tailings from Iron Ore washing plant shall be dewatered in filter press and no slime/tailing pond shall be permitted.	<p>Noted. Currently, wet grinding is being practiced and no tailing is being generated.</p>
vii.	Iron ore slimes shall be dewatered and disposed dry. The recovered water shall be reused in the process. Ponding of tailings shall not be permitted. Maximum storage for tailings in the plant shall not exceed 90 days.	<p>Agreed, The recovered water is reused and return back to the process.</p>
viii.	Rejects from coal washery shall only be used either in the captive power plant (or) in the Thermal Power Plants meeting emission standards.	<p>Agreed, rejects from coal washery will be used in the captive power plant (or) in the Thermal Power Plants meeting emission standards.</p>
ix.	<p>Solid waste utilization</p> <ul style="list-style-type: none"> 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 	<p>Noted and being complied in a time bound manner.</p> <ul style="list-style-type: none"> Dolochar generated from operational DRI kilns are used in CFBC Boilers of the Group Companies. SMS Slag used for road construction/ Land levelling purpose after recovering metal from Slag Crushing


	<p>cement making.</p> <ul style="list-style-type: none"> • PP shall recycle/reuse 100 % solid waste generated in the plant. • Used refractories shall be recycled as far as possible. 	<p>unit.</p> <ul style="list-style-type: none"> • Slag generated during Ferro Manganese production will be used as a raw material for Silico Manganese production. • Slag generated during Silico Manganese production will be used for road construction/land filling. • Dust from APC devices are used in Sinter Plant of associate companies of the Group and Brick Manufacturing, Pelletisation mix.
x.	Sinter Plant shall be equipped with Sinter cooler waste recovery system and suitable technology for control of dioxins and furans emissions from the plant.	Noted and will be complied prior to the commencement of the plant operation activity.
xi.	Tar shall be recovered from producer gas and shall be sold to registered processors and phenolic water shall be incinerated in After Burn Chamber (ABC) of DRI kilns.	Agreed, tar recovered from producer gas being is sold to registered processors and used as a fuel in pellet plant and phenolic water incinerated in After Burn Chamber (ABC) of DRI kilns.
xii.	Coke oven plant shall be equipped with modified wet quenching system.	<p>Agreed, coke oven plant equipped with modified wet quenching system and water is recycled post primary settlement.</p> 
xiii.	Coke Oven Gas shall be desulfurized.	Noted and being complied.
xiv.	Blast Furnaces shall be equipped with Top Recovery Turbine (capacity more than 550 m ³), dry gas cleaning plant, stove waste heat recovery, cast house and stock house ventilation system and slag granulation facility.	Noted and will be considered during the design stage.
xv.	Secondary fume extraction system shall be installed on	Noted and will be considered during the design stage.

For ORISSA ALLOY STEEL PRIVATE LIMITED

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	converters of Steel Melting Shop.	
xvi.	Basic Oxygen Furnace (BOF) gas shall be cleaned dry.	Noted and will be considered during the design stage.
xvii.	Electric Arc Furnace shall be closed type with 4 th hole extraction system.	Not applicable as no Electric Arc Furnace is being proposed.
xviii.	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. Rolling mill is still not commissioned.
xix.	Cold Rolling Mill (CRM), colour 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.	Not applicable as Cold Rolling Mill (CRM), colour coating and galvanizing plants is not proposed.
xx.	Dust emission from Steel Plant stacks shall be up to 30 mg/Nm ³ .	Agreed, APC devices are designed to keep the emission below 30 mg/Nm ³ . Recent OCEMS data is enclosed as Annexure-II.
xxi.	The net water requirement of the ISP after implementation of proposed expansion project would be around 491.67 m ³ /hr (11,800 KLD) which will be obtained from Kharagpur Municipality and Treated waste water. Bore well supply as envisaged earlier will be completely replaced by surface water/ treated waste water in the present proposal for operation phase of the project. No ground water extraction is permitted.	Noted and being complied.
xxii.	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	An area of around 48.60 hectare has already been covered under greenbelt @ 2500 trees per hectare (1,21,509 nos.) till March 2024. In addition to this 3000 Nos. of saplings on occasion of Safety day were distributed to nearby school children/ villagers for green belt development. Details of green belt development is

	<p>that damaged plants are replaced with new plants in the subsequent years. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.</p>	<p>already attached as Annexure- I.</p> <p>Survival rate of green belt developed being monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years.</p> 
<p>xxiii.</p>	<p>Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.</p>	<p style="text-align: center;">Noted and being complied.</p> <p>Greening and paving being implemented in the plant area to arrest soil erosion and dust pollution.</p>
<p>xxiv.</p>	<p>Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Regional Office of the MoEF&CC.</p> <p>i. Ductile Iron (DI) plant shall have the following provisions:</p>	<p>Agreed, the performance test/stack monitoring is conducted on all pollution control systems on quarterly basis for operational unit by NABL/WBPCB accredited laboratory.</p> <p>Stack Monitoring report is enclosed as Annexure-III.</p>

	<p>a. Bag filter for Zn coating and Mg converter area.</p> <p>b. Wet scrubbers in paint and bitumen coating area.</p> <p>c. Bag Filter in Cement lining area.</p> <p>d. PTFE dipped bags shall be used in the plant.</p> <p>e. PM emissions from BF in Zinc coating area shall be 5 mg/Nm³.</p> <p>f. ETP with recycling facility shall be included.</p>	<p>Ductile Iron Pipe finishing line is equipped with Bag filter.</p>
xxv.	<p>Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.</p>	<p>Agreed, 01 nos. rain water harvesting being implemented to harvest water. Harvested water is used as industrial make up water and also for dust suppression and green belt development.</p>
xxvi.	<p>The proposed project shall be designed as "Zero Liquid Discharge" Plant. No waste water will be discharged outside the plant boundary.</p>	<p>Agreed, no waste water discharged outside the plant boundary. ETP cum STP of adequate capacity is installed to treat the effluent and reused 100% in plant operation, for dust suppression and green belt development.</p>
xxvii.	<p>A proper action plan must be implemented to dispose of the electronic waste generated in the industry.</p>	<p>We have made contract with the authorized e-waste recyclers, the electronic waste generated in the industry will be dispose off by the authorized vendor.</p>
xxviii.	<p>Railway siding shall be completed by June 2022, as committed by the PP.</p>	<p>Complied.</p> 
xxix.	<p>PP shall prepare and implement an action plan giving annual improvement targets for resource conservation and environment improvement. This plan shall be monitored by the concerned Regional Office of the</p>	<p>Being Complied.</p> <p>The project is still under implementation phase. However 3R's (Reuse, Recycle & Recover Techniques), energy and natural resource conservation measures adopted by management of OASPL are as:</p> <p>❖ Reuse:</p>

MoEF&CC.	<ul style="list-style-type: none">a) Dust collected from Pellet plant had been/ will be reused in the pellet process.b) Char & Dolochar from DRI Plant being used in CFBC Boilers for power generation resulting reduction in non-renewable source i.e. coal.c) Slag generated during Ferro Manganese production had been/ will be used as a raw material for Silico Manganese production.d) Slag generated during Silico Manganese production had been/ will be used for road construction/ land filling.e) Magnesium dust from DI pipe plant had been/will be used in Sinter Plant of associate company.f) Cement slurry from DI pipe plant will be used Brick making and also in associate company of Cement Plant.g) Tar Sludge from Producer gas plant will be sold to SPCB authorized vendor. <p>❖ Recycle:</p> <ul style="list-style-type: none">a) Recycling or usage of recycled water at every stage of the processb) The process water had been/ will be treated in ETP and recycled in the process and within plant premises.c) Domestic water had been/ will be treated in STP and will be used for dust suppression & green belt development.d) Phenolic water from producer gas plant had been/ will be used in ABC of DRI Kiln. <p>❖ Recovery:</p> <ul style="list-style-type: none">a) Waste Heat Recovery boiler with DRI and Coke oven plant had been/ will be installed to capture sensible heat from waste heat.h) Partial Air cooled type cooling
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system had been/ will be installed with power plant resulting reduction in water consumption.

❖ **Energy Conservation:**

- a) Power Generation with WHRB (Without using fossil fuel) -136 MW from 4 x 600 + 2 x 1,200 TPD DRI Kiln based WHRB
- b) Power Generation with WHRB (Without using fossil fuel) in coke oven plant- WHRB attached with coke oven will generate 42 MW of electricity.
- c) Use of better quality raw material in DRI & BF resulting reduction in specific energy conservation.
- d) Use of energy efficient electric motors complying IEE3 Standards.
- e) Use of highly efficient VFD, minimizing idle running of machines.
- f) Optimizing loads and periodic preventive maintenance & lubrication
- g) Prevention of leakages of compressed air
- h) Optimized compressed air pressure.
- i) Periodic energy audits.
- j) Training, awareness and motivational programmes.
- k) Maximum utilization of renewable energy resources.
- l) Installation of energy efficient lightings.
- m) Use of energy saving light fittings.
- n) Installation of LED/CFL lighting.


❖ **Natural Resource Conservation:**

- a) Water had been/ will be conserved by practicing rainwater harvesting and maximum recycling within the plant premises.
- b) Waste water after treatment had been/ will be used after treatment in the plant.
- c) Solar street with LED is installed in common area and parking etc.

xxx.	The heat rate of coal based power plant as specified by Central Electricity Authority shall be maintained and monitored.	<p style="text-align: center;">Agreed and Noted.</p> <p>The heat rate of Coal based power plant as specified by central Electricity Authority shall be considered during the design state of the plant.</p>
xxxi.	Energy efficient drives, VFD for auxiliary motors and slip power recovery system for motors above 1000 kw shall be provided.	<p style="text-align: center;">Being complied with.</p> <p>Energy efficient drives, VFD for auxiliary motors and slip power recovery system for motors above 1000 KW being installed in parallel with implementation of the project.</p>
xxxii.	PTFE Membrane bags shall be used in filter bag house and designed for 150% of normal design air flow.	<p>Being complied with and will be complied in parallel with implementation of the project. Adequate capacity of Bag Filter has been installed in Ferro alloy plant, secondary unit of DRI plant, DIP finishing line and in Pellet Plant.</p> 
xxxiii.	Shall use ultralow NO _x burner with three stage combustion, flue gas recirculation and auto combustion control system. Shall use Post combustion control system (SCR/SCNR process) with NH ₃ monitoring when Ammonia is used.	<p style="text-align: center;">Agreed and noted for compliance.</p> <p>Sinter plant and Coal based CPP is not yet commissioned and during design phase it will be considered.</p>
xxxiv.	Parking area for trucks/dumpers shall be provided within the steel plant. No truck/dumper shall be parked outside the steel plant premises.	<p style="text-align: center;">Being complied.</p> <p>6.04 hectare is allocated for parking area for trucks/dumpers within the steel plant. No truck/dumper being parked outside the steel plant premises.</p>


For ORISSA ALLOY STEEL PRIVATE LIMITED

Director / Authorised Signatory

		
xxxv.	<p>PP reported that out of the 145.69 hectare of land, 131.53 hectare of land is already in possession of M/s Orissa Alloy Steel Private Limited (Formerly M/s Rashmi Alloy Steel Private Limited) and for rest of land (14.16 ha) consent from private rayat obtained, however land is not yet acquired. This EC is subject to obtaining complete acquisition of land required for the proposed expansion project.</p>	<p style="text-align: center;">Agreed and Noted.</p>
xxxvi.	<p>This is an existing Unit. PP shall control the air pollutants-PM_{2.5}, PM₁₀, SO₂, NO_x, CO emissions in the occupational environment of different process plants, within the permissible exposure limits of as per the Factories Act. PP shall do the monitoring of industrial hygiene survey within occupational environments in order to ensure good environment within the industry, so that workers health is ensured.</p>	<p style="text-align: center;">Being Complied</p> <p>The occupational health surveillance of the workers is being done on a regular basis and records are maintained as per the Factories Act.</p> <p>The OHS Record is attached as Annexure- IV.</p>
xxxvii.	<p>During operational phase at Captive Power Plant PP shall to measure coal dust exposures and to maintain coal dust exposures within stipulated standards at coal handling areas, conveyer belt and coal crushing area-ball mill. PP shall identify extreme hot areas through heat stress survey as well as noise monitoring within process plants to ensure that workers</p>	<p style="text-align: center;">Agreed and Noted.</p>

	not exposed above 90 dBA levels as per Factories Act, 1948.	
xxxviii.	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.	We have made contract with the authorized e-waste recyclers, the electronic waste generated in the industry being dispose of by the authorized vendor.
B. General Conditions		
I	Statutory compliance:	
i.	The Environment Clearance (EC) granted to the project/activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.	Noted
II.	Air quality monitoring and preservation:	
i.	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 04 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	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. Also 02 no sensor based AQMS installed. 01 no at plant main gate of associate company OMIPL & another near plant main gate of associate company (WCMIL). Online continuous emission Monitoring system (OCEMS) has been installed at all operational plants i.e. with stack connected with Ferro alloy plant, DRI plant, Coke Oven Plant, SMS Plant and

	<p>accredited laboratories.</p>	<p>Pellet plant as per CPCB guideline.</p> <p>The CEMS and CAAQMS are connected to WBPCB and CPCB online servers and calibrate from time to time according to equipment supplier specification.</p> <p>Ambient air monitored at the five locations viz., 1) Near Plant Main Gate, 2) Barkola Village, 3) Walipur Village, 4) Jharia Village & 5) Truck Parking Area by third party monitoring agency M/s Qualissure Laboratory Services, Kolkata which is NABL accredited laboratory. As per monitoring reports of month March 2024, emission levels are as follows:</p> <table border="1" data-bbox="829 726 1438 1052"> <thead> <tr> <th>Para.</th> <th>Plant Main Gate</th> <th>Barkola Village</th> <th>Walipur Village</th> <th>Jharia Village</th> <th>Truck Parking Area</th> </tr> </thead> <tbody> <tr> <td>PM₁₀ (µg/m³)</td> <td>80.0</td> <td>55.0</td> <td>60.0</td> <td>64.0</td> <td>78.0</td> </tr> <tr> <td>PM_{2.5} (µg/m³)</td> <td>48.0</td> <td>24.0</td> <td>27.0</td> <td>30.0</td> <td>40.0</td> </tr> <tr> <td>SO₂ (µg/m³)</td> <td>8.1</td> <td>5.9</td> <td>5.8</td> <td>6.1</td> <td>7.5</td> </tr> <tr> <td>NO₂ (µg/m³)</td> <td>28.3</td> <td>27.6</td> <td>25.7</td> <td>27.4</td> <td>29.6</td> </tr> <tr> <td>CO (µg/m³)</td> <td>709</td> <td>481</td> <td>481</td> <td>446</td> <td>629</td> </tr> </tbody> </table> <p>CAAQMS reports and AAQMS report carried by NABL accredited laboratory are attached in as Annexure – V & VI and Stack report data already attached in as Annexure - III.</p>	Para.	Plant Main Gate	Barkola Village	Walipur Village	Jharia Village	Truck Parking Area	PM ₁₀ (µg/m ³)	80.0	55.0	60.0	64.0	78.0	PM _{2.5} (µg/m ³)	48.0	24.0	27.0	30.0	40.0	SO ₂ (µg/m ³)	8.1	5.9	5.8	6.1	7.5	NO ₂ (µg/m ³)	28.3	27.6	25.7	27.4	29.6	CO (µg/m ³)	709	481	481	446	629
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<p>ii.</p>	<p>The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.</p>	<p>Being Complied.</p> <p>Fugitive Emissions have been monitored in quarterly basis. In month of December 2023 a NABL accredited laboratory done the monitoring for 09 locations. As per monitoring reports, (DEC-2023) emission levels are as follows:</p> <table border="1" data-bbox="829 1583 1438 1877"> <thead> <tr> <th>Location</th> <th>TSPM (µg/m³)</th> </tr> </thead> <tbody> <tr> <td>Ferro alloy plant</td> <td>542.38</td> </tr> <tr> <td>Raw Material Yard</td> <td>691.25</td> </tr> <tr> <td>Railway Siding</td> <td>445.26</td> </tr> <tr> <td>DIP Plant Area</td> <td>538.72</td> </tr> <tr> <td>SMS Area</td> <td>516.37</td> </tr> <tr> <td>Coke Oven Plant</td> <td>496.85</td> </tr> <tr> <td>Construction Area</td> <td>504.28</td> </tr> </tbody> </table>	Location	TSPM (µg/m ³)	Ferro alloy plant	542.38	Raw Material Yard	691.25	Railway Siding	445.26	DIP Plant Area	538.72	SMS Area	516.37	Coke Oven Plant	496.85	Construction Area	504.28																				
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iii.	Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions.	Process stack with DRI Plant, Ferro Plant, Pellet Plant, Coke Oven Plant, SMS Plant and DIP Finishing line has been installed as per CPCB guidelines for manual monitoring of emissions.																								
iv.	<p>Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.</p> <div style="text-align: center; margin-top: 20px;">  <p>For ORISSA ALLOY STEEL PRIVATE LIMITED Director / Authorised Signatory</p> </div>	<p style="text-align: center;">Being complied.</p> <p>4 X 9 MVA Ferro Alloy Plants; 04 X 600 TPD + 2 x 1200 TPD DRI plant with 136 MW WHRB based CPP, 0.2 MTPA DIP finishing line, 3.0 MTPA Pellet plant with matching beneficiation and 20 X 7500 N.Cu.M PGP, 0.3564 MTPA SMS with matching CCM, along with 0.55 MTPA coke oven plant with 42 MW WHRB based CPP, is having valid consent to operate from WBPCB.</p> <p>Adequate APCD is installed with the operational units. The details are as:</p>																								

		<p>a) Bag Filter with Heat Exchanger with Ferro Alloy Plant b) ESP with WHRB with DRI plant c) ESP with Pellet Plant d) Bag Filter with SMS (I.F.) e) WHRB & Bag Filter with Coke oven plant f) Inbuilt Electrostatic Tar Separator with PGP g) Bag Filter with DIP plant</p> <p>Action taken by company for maintain good housekeeping and controlling emission are:</p> <ul style="list-style-type: none">❖ Dust suppression systems are/ will be provided at raw material handling, product handling, transfer points, loading and unloading points to control fugitive emission.❖ Covered shed and conveyor belts have been provided at various points such as material transfer points, and other enclosed raw material handling areas for control of fugitive emissions.❖ Bag houses are designed to meet the standard below 30 mg/Nm³.❖ 03 nos. of dedicated Street sweeper machine and 04 nos. movable water tankers are being used.❖ Dedicated 04 No. water spraying tankers are in use.❖ 02 no. fixed Water mist fog system has been installed and in used in order to reduce the fugitive dust.❖ 01 no. movable Water mist fog system has been installed and in used in order to reduce the fugitive dust.❖ We have provided GPS enabled tractor mounted water tanker for suppression of dust at nearby villages.❖ Water sprinkler/ water gun along the roadside is being installed to reduce fugitive emission.❖ Speed limits are enforced for movement of vehicles at the site as
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per the factory limits


- ❖ Concreting of internal road with proper drainage system to reduce vehicular emission is going on in parallel with implementation of the project.
- ❖ Trucks movement for transporting raw materials & solid waste in fully covered way to avoid dust pollution.
- ❖ Dedicated truck parking facility.
- ❖ Engaged more numbers of dedicated Housekeeping team with proper training and equipment.
- ❖ Regular painting and cleaning / white washing of wall.
- ❖ Scraps are stored in proper demarcated area with proper marking.
- ❖ Hazardous wastes are stored in dedicated HZW store.
- ❖ Regular cleaning of drain systems pre & post monsoon is done.
- ❖ Green belt with density of 2500 per hectare along and around boundary of the site towards the highway is being developed.

Also to ensure Ambient Air Quality is meeting the prescribed standard AAQ0 & Fugitive Monitoring is being done on regular basis by NABL/ MoEF accredited laboratory.



For ORISSA ALLOY STEEL PRIVATE LIMITED

[Signature]
Director / Authorised Signatory



		 <p>Latest Ambient Air Quality Monitoring Analysis reports carried by NABL/MoEF accredited lab are already attached in as Annexure-VI.</p>
v.	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	Agreed and is considered in design stage.
vi.	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.	<ul style="list-style-type: none"> ❖ 03 nos. of dedicated Street sweeper machine and 04 nos. movable water tankers are being used. ❖ Dedicated 04 No water spraying tankers are in use. ❖ 02 no fixed Water mist fog system has been installed and in used in order to reduce the fugitive dust. ❖ 01 no movable Water mist system has been installed and in used in order to reduce the fugitive dust.

For ORISSA ALLOY STEEL PRIVATE LIMITED


Director / Authorized Signatory



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.	<p>Agreed and will be complied in parallel with implementation of the project.</p> <p>For valid CTO obtained units following measures are being adopted:</p> <ul style="list-style-type: none"> ▪ Iron ore fines are feed into pellet plant for making pellet, ▪ APC fines from DRI plant is used for brick making; ▪ Pellet fines are recycled back to the process. ▪ SMS slag after metal recovery is used in brick/paver block making or land levelling. ▪ Coke fines are used in sinter plant of associate company of the Group. <p>TCLP & Leachate Test report is enclosed as Annexure-VIII.</p>
viii.	The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.	<p style="text-align: center;">Being complied.</p> <p>The raw materials are transported in covered dumpers or covered with tarpaulin. Overloading of truck is strictly prohibited.</p>
ix.	Facilities for spillage collection shall be provided for coal and coke on wharf of coke oven batteries (Chain conveyors, land based industrial vacuum cleaning facility).	<p style="text-align: center;">Noted.</p> <p>Facilities for spillage collection coal and coke on wharf of coke oven batteries (chain conveyors, land based industrial vacuum cleaning facility) are made during the design stage of the plant. Bag Filter is attached with sufficient vent from platform for Coke Pushing/Charging car.</p>
x.	Land-based APC system shall be installed to control coke pushing emissions.	<p>Land-based APC system is considered during the design stage. The details are as:</p> <ol style="list-style-type: none"> a) A large gas suction hood fixed on the coke guide car and moving with the coke guide, sending fumes to the coke side dust collecting duct; b) The dust collection duct; and c) The final equipment for smoke purification on the ground (ground

		<p>pipng, accumulator cooler, pulse bag dust collector, silencer, ventilation unit, stack, etc.).</p> <p>d) Dust extraction system with bag filters is provided at different places. Emission is maintained below 30 mg/Nm³</p>
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.	<p>Agreed and noted.</p> <p>CO, HC and O₂ in flue gases of the coke oven battery monitor to detect combustion efficiency and cross leakages in the combustion chamber.</p>
xii.	Vapour absorption system shall be provided in place of vapour compression system for cooling of coke oven gas in case of recovery type coke ovens.	Not Applicable. Proposed coke oven plant is non-recovery type.
xiii.	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.	Raw materials are currently stored under covered shed or covered with tarpaulin. Water spraying is done on regular basis by movable water mist fog canon system to prevent the diffusion of particles in the atmosphere.
xiv.	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.	Noted and is being considered in design stage.
III.	Water quality monitoring and preservation	
i.	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31 st March 2012 (Integrated iron & Steel); G.S.R 414 (E) dated 30 th May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7 th December 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate	<p>Agreed and being complied.</p> <p>The project is still under the construction phase. The plant is being designed as Zero Liquid Discharge (ZLD) and 100% water is recycled after treatment and is used in process, dust suppression & green belt development.</p> <p>Effluent water is being monitored by agency M/s Qualissure Laboratory Services, Kolkata which is NABL accredited laboratory.</p> <p>Effluent water quality report done by NABL accredited lab is attached as Annexure-IX.</p>

	these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	
ii.	The project proponent shall monitor regularly ground water quality at least twice a year (pre and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.	<p style="text-align: center;">Agreed and Being Complied.</p> <p>The project is still under implementation phase.</p> <p>Manual effluent testing and manual monitoring of ground water quality are carried by third party agency (NABL accredited laboratory) at least twice a year (pre and post monsoon) in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.</p> <p>Latest Ground water analysis report is attached as Annexure- X.</p>
iii.	The project proponent shall provide the ETP to meet the standards prescribed in G.S.R 277 (E) dated 31 st March 2012 (Integrated iron & Steel); G.S.R 414 (E) dated 30 th May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7 th December 2015 (Thermal Power Plants) as amended from time to time.	<p>STP cum ETP of adequate capacity already installed at site for treatment of the waste water and treated water is recycled/ reused in the process.</p>  
iv.	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	<p style="text-align: center;">Being Complied.</p> <p>As stated in point no.-iii, STP of adequate capacity already installed at site for treatment of the waste water and treated water will be 100%</p>

For ORISSA ALLOY STEEL PRIVATE LIMITED

[Signature]
Director / Authorised Signatory

		recycled/reused in the process. Being Complied
v.	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.	The project is under construction phase, Garland drains and collection pits are being developed to arrest run off of water. Run off water is stored in existing rain water harvesting pond of sufficient capacity. 
vi.	Tyre washing facilities shall be provided at the entrance of the plant gates.	Tyre washing facility is constructed and provided at the entrance of the plant gates. 
vii.	Water meters shall be provided at the inlet to all unit processes in the steel plants.	Plant is being operated on treated waste water from ETP/STP plant. Water meters are installed at the inlet to all unit process in the steel plant.
IV.	Noise monitoring and prevention	
i.	Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.	Agreed and Being Complied. Work & Ambient noise monitoring carried by M/s Qualisure Laboratory Services, Kolkata which is a NABL accredited laboratory. Noise level has been monitored at work zone at six places i.e. 1) Construction Site CPP, 2) Ferro Alloy Plant Area, 3) DRI & Pellet Plant Area, 4) Railway Siding Area, 5) Coke Oven Plant Area, 6) SMS Area, Ambient Noise has been monitored at four places i.e. 1) Near Plant Main, 2)

		<p>Barkola Village, 3) Jharia Village, 4) Dangar Para by third party monitoring agency. As per monitoring reports submitted, levels are as follows:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: center;">Work zone Noise</th> </tr> <tr> <th style="text-align: center;">Location</th> <th style="text-align: center;">Leq (Day)</th> <th style="text-align: center;">Leq (Night)</th> <th style="text-align: center;">Average dB</th> </tr> </thead> <tbody> <tr> <td>Construction Site CPP</td> <td style="text-align: center;">60.7</td> <td style="text-align: center;">53.6</td> <td style="text-align: center;">56.3</td> </tr> <tr> <td>Ferro Alloy Plant Area</td> <td style="text-align: center;">59.0</td> <td style="text-align: center;">51.4</td> <td style="text-align: center;">54.9</td> </tr> <tr> <td>DRI & Pellet Plant Area</td> <td style="text-align: center;">58.7</td> <td style="text-align: center;">49.5</td> <td style="text-align: center;">53.5</td> </tr> <tr> <td>Railway Siding Area</td> <td style="text-align: center;">61.0</td> <td style="text-align: center;">54.0</td> <td style="text-align: center;">56.0</td> </tr> <tr> <td>Coke Oven Plant Area</td> <td style="text-align: center;">59.7</td> <td style="text-align: center;">51.6</td> <td style="text-align: center;">54.9</td> </tr> <tr> <td>SMS Area</td> <td style="text-align: center;">60.2</td> <td style="text-align: center;">51.2</td> <td style="text-align: center;">55.0</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: center;">Ambient Noise</th> </tr> <tr> <th style="text-align: center;">Location</th> <th style="text-align: center;">Leq dB (Day)</th> <th style="text-align: center;">Leq dB (Night)</th> </tr> </thead> <tbody> <tr> <td>Near Plant Main</td> <td style="text-align: center;">62.2</td> <td style="text-align: center;">47.6</td> </tr> <tr> <td>Barkola Village</td> <td style="text-align: center;">54.1</td> <td style="text-align: center;">43.8</td> </tr> <tr> <td>Jharia Village</td> <td style="text-align: center;">54.4</td> <td style="text-align: center;">43.5</td> </tr> <tr> <td>Dangar Para</td> <td style="text-align: center;">54.0</td> <td style="text-align: center;">42.9</td> </tr> </tbody> </table> <p>Ambient Noise & Source Noise Monitoring Reports are attached as Annexure-XI.</p>	Work zone Noise				Location	Leq (Day)	Leq (Night)	Average dB	Construction Site CPP	60.7	53.6	56.3	Ferro Alloy Plant Area	59.0	51.4	54.9	DRI & Pellet Plant Area	58.7	49.5	53.5	Railway Siding Area	61.0	54.0	56.0	Coke Oven Plant Area	59.7	51.6	54.9	SMS Area	60.2	51.2	55.0	Ambient Noise			Location	Leq dB (Day)	Leq dB (Night)	Near Plant Main	62.2	47.6	Barkola Village	54.1	43.8	Jharia Village	54.4	43.5	Dangar Para	54.0	42.9
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V.	Energy Conservation measures																																																			
i.	Use torpedo ladle for hot metal transfer as far as possible. If ladles not used, provide covers for open top ladles.	Agreed and will be considered in operation phase of MBF plant.																																																		
ii.	Restrict Gas flaring to < 1%.	Noted. Still MBF plant is not implemented. The subject point will be considered in operation phase of MBF.																																																		
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;	Solar lighting system is installed at Administrative building, common area, Main gates, Parking area in parallel with implementation of the project.																																																		
iv.	Provide LED lights in their offices and residential areas.	Being complied. LED lights in the offices and residential areas are provided and will be provided more in parallel with implementation of the project.																																																		
v.	Ensure installation of regenerative/recuperative type burners on all reheating	Agreed and Noted. Recuperative type energy efficient																																																		

	furnaces.	burner (equivalent to regenerative type) will be considered at design phase in Reheating furnaces.
VI.	Waste management	
i.	An attrition grinding unit to improve the bulk density of BF granulated slag from 1.0 to 1.5 Kg/J shall be installed to use slag as river sand in construction industry.	Agreed and Noted. Still MBF plant is not implemented. Blast Furnace slag will be used for cement making in associate company of the Group.
ii.	Carbon recovery plant to recover the elemental carbon present in GCP slurries for use in Sinter plant shall be installed.	Noted and will be considered during the operation phase.
iii.	Used refractories shall be recycled as far as possible.	Agreed. Kiln accretion/broken refractory mass used in associate company Sinter Plant, Cement Manufacturing, and land levelling.
iv.	100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.	Agreed and noted. Coal based CPP plant is not yet implemented and as on date no fly ash is generated. MOU for utilization of fly ash in cement plant of associate company (Rashmi Cement Limited (Cement Division), Jhargram & Bansal Cement Pvt. Ltd. Kharagpur) already made and submitted to ministry.
v.	Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil. Oil collection trays shall be provided under coils on saddles in cold rolled coil storage area.	Noted and will be considered during design phase of Rolling mill.
vi.	Kitchen waste shall be composted or converted to biogas for further use.	Being Complied Kitchen wastes are being composted and used in green belt development.
VII.	Green Belt	
i.	PP shall undertake the backlog and gap filling of greenbelt work@ 2500 plants/hectare in the 2022 monsoon season	We're regularly working on backlog and gap filling for greenbelt. Survival rate of green belt developed being monitored on periodic basis to ensure that damaged

	itself and shall accordingly increase the budget for green belt purpose.	plants are replaced with new plants in the subsequent years.
ii.	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.	Complied. Updated details of Carbon Foot Prints and Carbon Sequestration (GHG emissions inventory for the plant) is already submitted to IRO-MoEFCC, Kolkata sub office vide letter no. - OASPL/ENV COMPL/JUNE 2023 dated 21.05.2023.
iii.	Project proponent shall submit a study report within six months on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitorable with defined time frames.	In order to reduce carbon emission dependency on WHRB based power plant is being in operation and currently 136 MW WHRB DRI based CPP & 42 MW from Coke Oven Plant Total 178 MW is in operation and in future capacity will be increased to 180 MW. Also process optimisation, modern technologies being adopted to reduce carbon emission. Carbon Foot Prints and Carbon Sequestration is already submitted to IRO-MoEFCC, Kolkata sub office vide letter no. -OASPL/ENV COMPL/JUNE 2023 dated 21.05.2023.
VIII.	Public hearing and Human health issues	
i.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Complied. Copy of updated Emergency preparedness plan, Hazard identification and Risk Assessment (HIRA) report and Disaster Management Plan is already submitted vide EC compliance (Dec-2022) vide letter no.- OASPL/ENV_COMP/DECEMBER 2022 dated 21.11.2022.
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	Agreed and being complied. Workers working in high temperature zone are provided with proper PPEs and the duration of their shift in those areas will be max. 4 hrs. or less per day compared to the shift in other areas.

	per the norms.	
iii.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.	Being Complied. The occupational health surveillance of the workers is being done on a regular basis and records are maintained as per the Factories Act. To strengthen the Occupational Health Surveillance, a system has been made, in which, employee's Gate Pass is issued only after ensuring the initial medical check-up. The OHS Record is already attached as Annexure- IV.
IX.	Environment Management	
i.	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, and as committee by the PP, the company shall adopt eleven villages namely Bargai, Dangarpara, Amba, Gokulpur, Kantapal, Keshpal, Ajabpur, Barkola, Wallipur, Mohanpur and Risha based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.	Noted and being complied in time bound manner. In last two financial year Rs. 1,51,17,813 is spent under CSR/CER head on various activities in nearby villages to address the issues raised during public hearing and socio-economic issues in the study area. Area of Work: <ul style="list-style-type: none"> • Financial support to School, • Drinking Water Facility, • Village Road Construction/ Repairing • Construction of community center, etc. • Development of play ground • Paver footpath construction near Bargai Health care • Construction / Repairing of community prayer center, etc. • Plantation at Road side. • Installation of Street Light.
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	The company have a well laid down environmental policy duly approved by the board of directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/ forest/ wildlife norms/ conditions. The company shall have defined system of reporting

	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.	infringements/ deviation/violation of the environmental/forest/ wildlife norms/ conditions and / or shareholders/stake holders. EHS policy is already provided to the MOEF&CC vide letter no-RASPL/KGP/2020-2021/01 dated 16.06.2020.
iii.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.	A separate Environmental cell both at project and company head quarter is in place.
X	Miscellaneous	
i.	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.	Complied. Advertisement for expansion environment clearance obtained under EIA notification, 2006 in favour of M/s Orissa Alloy Steel Pvt. Ltd., in two local newspapers that are widely circulated in the region are: 1. Aajkal dated 11.08.2022 (Bengali) 2. The Echo of India dated 11.08.2022 (English) The copy of the same is already submitted vide EC compliance vide letter no.-OASPL/ENV_COMP/DECEMBER 2022 dated 21.11.2022.
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	Complied. Copies of EC dated 10.08.2022 submitted to DM, Paschim Medinipur & Barkola Gram Panchayat vide letter dated 10.08.2022. EC copy also uploaded on the website of the company http://orissametaliks.com/gehs.html . The copy of intimation is already

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	days from the date of receipt.	submitted vide EC compliance (Dec-2022) vide letter no.- OASPL/ENV_COMP/DECEMBER 2022 dated 21.11.2022.
iii.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Being Complied. The environmental clearance and status of compliance of the stipulated environment clearance conditions, including results of monitored data have been uploaded on the website of the company - http://orissametaliks.com/qehs.html
iv.	The project proponent shall monitor the criteria pollutants level namely; PM ₁₀ , SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	Being Complied. The criteria pollutants level namely; PM ₁₀ , PM _{2.5} , SO ₂ , NO _x (ambient levels as well as stack emissions) is monitored by third party monitoring agency which is NABL accredited laboratory. Emission levels of pollutants of different units is displayed on board as per CPCB format outside the main gate of the plant for disclosure to the public and also uploaded on the website of the company - http://orissametaliks.com/qehs.html . Electronic display board is installed at plant main gate and online stack emission data and CAAQMS data is also being displayed.
v.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental	Being complied. This report is being submitted in compliance to this point.



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	conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	The last compliance report for the period April 2023 to September 2023 has been submitted to ministry vide letter no. OASPL/ENV_COMP/DEC2023 dated 29.11.2023, through email on 29.11.2023 and also uploaded on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal having compliance ID 26084634.
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.	Being complied. The environmental statement for financial year 2022-23 in Form-V is submitted to the West Bengal Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986 vide letter no.-OASPL/ENV_Statement/23-24 dated 21.09.2023 and same is uploaded on the website of the company.
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 concerned authorities, commencing the land development work and start of production operation by the project.	Being Complied. The company is a private company and no finance is needed from outside. Land development work has been started after getting NOC from WBPCB and production operation started after obtaining valid CTO.
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.	Being Complied. We are in the process of complying all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing. In last two financial year Rs. 1,51,17,813 is spent under CSR/CER head on various activities in nearby villages to address the issues raised during public hearing and socio-economic issues in the study area.
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).	Agreed and noted for compliance.  For ORISSA ALLOY STEEL PRIVATE LIMITED Director / Authorized Signatory

x.	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.	The Action Plan on the PH issues, and other commitments made in the EIA/EMP Report is furnished in Half yearly EC compliance report and is uploaded on the website of the company http://orissametaliks.com/gehs.html .
xi.	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.
xii.	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.
8	The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found	Agreed and Noted.  For ORISSA ALLOY STEEL PRIVATE LIMITED Director / Authorised Signatory

	satisfactory.	
9	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.	Agreed and Noted.
10	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Agreed and Noted.
11	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) 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.	Agreed and Noted.
F. No. IA3-22/8/2021-IA.III [E 150512] dated 18.07.2022		
I)	Sensitization of project proponents on implementation of ban on Single Use Plastic (SUP).	In order to create awareness among the employees about the harm/ impact of Single Use Plastic on environment, banner and flex are displayed at suitable place like work place, canteen, parking area etc.

Changes of name in the Environmental Clearance from M/s Rashmi Alloy Steel Private Limited to M/s Orissa Alloy Steel Private Limited issued vide F. No. J-11011/169/2017-IA.II(I) dated 12.05.2021

i.	M/S Orissa Alloy Steel Private Limited shall comply with all the specific and general conditions stipulated in the environment clearance letter of even no. dated 19.03.2021.	Agreed and being complied with.
ii.	In case, there is a change in scope of the project, fresh environment clearance shall be obtained.	Agreed and noted. In compliance to this environmental clearance for expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB 114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
--	The project proponent shall make public the environmental clearance granted for their project	Advertisement for environment clearance transfer in two local newspapers that are widely circulated in the region are: 1. Aajkal dated 14.05.2021 (Bengali) 2. The Echo of India dated 14.05.2021 (English) The copy of advertisement has been submitted to the MOEFCC Regional Office vide letter no. OASPL/ENV COMPL/Dec 2021 dated 27.11.2021.

Environmental Clearance under the provisions of para 7(ii) of EIA Notification 2006 vide F. No. IA-J-11011/169/2017-IA-II (I) dated 19.03.2021.

A.	Specific Conditions	
i.	Use of ground water for industrial purpose shall not be allowed after 31 st December, 2023	Agreed and being complied.
ii.	Iron ore slimes shall be dewatered and disposed dry. The recovered water shall be reused in the process. Ponding of tailings shall not be permitted. Maximum storage for tailings in the plant shall not exceed 90 days.	Already covered in compliance point no. vii of Specific conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.

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iii.	Effluent from coal Gasifier shall be burnt in DRI and tar sludge shall be recycled to Gasifier after mixing with coal.	Being complied, Phenolic water from PGP is being used in ABC of DRI kiln.
iv.	100% solid waste generated in the plant shall be reused/recycled/sold No dumping is permitted. Storage area for the solid waste inside the plant premises shall be secured and impervious with garland drains and catch pits around. The storage shall not exceed 90 days.	Noted and being complied in a time bound manner. Already covered in compliance point no. ix of Specific conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
v.	Plant drains shall terminate in large catch pits to trap and recover oil/tar and reuse it.	Being complied. Already covered in compliance point no. ix of Specific conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
vi.	Display board at the entry premises shall be of 6ft x 6ft size.	Complied. Electronic display board is installed at plant main gate.
vii.	550 m ³ Blast Furnace shall have top recovery turbine.	The said condition has been modified and covered in compliance point no. xiv of Specific conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
viii.	Parking area of 15 acres has been earmarked in RUPL premises and no parking on road side outside the plant shall be permitted.	The said condition has been modified and covered in compliance point no. xxxiv of Specific conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
ix.	Green Belt should be developed in an area of 43.91	The said condition has been modified and covered in compliance point no.

	ha by 31st December, 20221. The greenbelt shall inter alia cover the entire periphery of the plant with a width of 20m and density of 2500 trees per hectare.	xxii of Specific conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
x.	Raw material shall be stored under closed sheds on impervious floors. Garland drains and catch pits shall be provided to trap run materials.	Agreed and Being complied. The project is still under construction phase. For the operational unit the raw materials are stored under dedicated raw material storage area (covered sheds/ covered with tarpaulin provided with guard wall & garland drain.
xi.	Railway siding shall be completed by June 2022.	The said condition is already covered in compliance point no. xxviii of Specific conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
xii.	PP shall prepare and implement an action plan giving annual improvement targets for resource conservation and environment improvement. This plan shall be monitored by the concerned Regional Office of the MOEF & CC.	The said condition is already covered in compliance point no. xxix of Specific conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
xiii.	The heat rate of Coal based power plant as specified by central Electricity Authority shall be maintained and monitored.	The said condition is already covered in compliance point no. xxx of Specific conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
xiv.	Energy efficient drives, VFD for auxiliary motors and slip power recovery system for motors above 1000 KW shall be provided.	The said condition is already covered in compliance point no. xxxi of Specific conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No.

		J-11011/169/2017-IA.II (I) dated 10.08.2022.
xv.	PTEE Membrane bags shall be used in filter bag house and designed for 150% of normal design air flow.	The said condition is already covered in compliance point no. xxxii of Specific conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
xvi.	Shall use ultralow NO _x burner with three stage combustion, flue gas recirculation and auto combustion control system. Shall use post combustion control system (SCR/SCNR process) with NH ₃ monitoring when Ammonia is used.	The said condition is already covered in compliance point no. xxxiii of Specific conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
B.	GENERAL CONDITION	
I.	Statutory Compliance	
i.	The Environment Clearance (EC) granted to the project/activity is strictly under the provisions of EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/conditions to be followed under any other Acts/Rules/ subordinate legislations, etc., as may be applicable to the project.	Agreed and Noted.
II.	Air quality monitoring and preservation	
i.	The PP shall install 24x7 continuous emission monitoring system at process stack to monitor stack emission as well as 04 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	The said condition 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 (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.

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	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.	
ii.	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.	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 (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
iii.	Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions.	The said condition is already covered in compliance point no. iii of Air quality monitoring and preservation (II) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
iv.	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.	The said condition is already covered in compliance point no. iv of Air quality monitoring and preservation (II) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
v.	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	The said condition is already covered in compliance point no. v of Air quality monitoring and preservation (II) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.

vi.	Sufficient number of mobile or stationary vacuum cleaners shall be provided to clean plant roads shop floors, roofs, regularly.	The said condition is already covered in compliance point no. vi of Air quality monitoring and preservation (II) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
vii.	Recycle and reuse iron ore fines, Coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/agglomeration.	The said condition is already covered in compliance point no. vii of Air quality monitoring and preservation (II) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
viii.	The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.	The said condition is already covered in compliance point no. viii of Air quality monitoring and preservation (II) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
ix.	Facilities for spillage collection shall be provided for coal and coke on wharf of coke oven batteries (chain conveyors, land based industrial vacuum cleaning facility).	The said condition is already covered in compliance point no. ix of Air quality monitoring and preservation (II) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
x.	Land-based APC system shall be installed to control coke pushing emissions:	The said condition is already covered in compliance point no. x of Air quality monitoring and preservation (II) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No.

		J-11011/169/2017-IA.II (I) dated 10.08.2022.
xi.	Monitor CO, HC and O ₂ in flue gases of the coke oven battery to detect combustion efficiency and cross leakages in the combustion chamber.	The said condition is already covered in compliance point no. xi of Air quality monitoring and preservation (II) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
xii.	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.	The said condition is already covered in compliance point no. xiii of Air quality monitoring and preservation (II) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
xiii.	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.	The said condition is already covered in compliance point no. xiv of Air quality monitoring and preservation (II) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
III. Water Quality Monitoring and preservation		
i.	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules, 1986 (G.S.R 277 (E) dated 31st March 2012 (Integrated iron and steel); GSR 414(E) dated 30th 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 according to	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 (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.

	equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL Accredited Laboratories.	
ii.	The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognised under Environment (protection) Act, 1986 and NABL accredited Laboratories.	The said condition is already covered in compliance point no. ii of Water quality monitoring and preservation (III) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
iii.	The project proponent shall provide the ETP to meet the standards prescribed in G.S.R 277 (E) dated 31st March 2012 (Integrated iron & Steel); G.S.R 414 (E) dated 30th May 2015 (Thermal power Plant) as amended from time to time.	The said condition is already covered in compliance point no. iii of Water quality monitoring and preservation (III) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
iv.	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	The said condition is already covered in compliance point no. iv of Water quality monitoring and preservation (III) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
v.	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface water run off.	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 (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
vi.	Tyre washing facilities shall be provided at the entrance of the	The said condition is already covered in compliance point no. vi of Water

	plant gates.	quality monitoring and preservation (III) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
vii.	Water meters shall be provided at the inlet to all unit process in the steel plant.	The said condition is already covered in compliance point no. vii of Water quality monitoring and preservation (III) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
IV. Noise monitoring and prevention		
i.	Noise pollution shall be monitored as per the prescribed Noise pollution (Regulation and control) Rules, 2000 and report in this regard shall be submitted to regional officer of the Ministry as a part of six-monthly compliance report.	The said condition is already covered in compliance point no. i of Noise monitoring and prevention (IV) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
V. Energy conservation measures		
i.	Used 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 (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
ii.	Restrict Gas flaring to < 1%.	The said condition is already covered in compliance point no. ii of Energy Conservation measures (V) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No.

		J-11011/169/2017-IA.II (I) dated 10.08.2022.
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 (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
iv.	Provide LED lights 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 (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
v.	Ensure installation of regenerative 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 (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
VI. Waste management		
i.	An attrition grinding unit to improve the bulk density of BF granulated slag from 1.0 to 1.5 Kg/I 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 (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
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 (1.2 to 2.0 million

		TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
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 (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
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 (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
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 (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
vi.	Kitchen waste shall be composted or converted to biogas for further use.	The said condition is already covered in compliance point no. vi of Waste management (VI) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
VII. Green Belt		
i.	The project proponent shall prepare GHG emissions	Complied.

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	inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.	GHG emissions inventory for 1.2 MTPA Integrated Steel Plant with 225 MW CPP prepared by CSIR, Dhanbad (Central Institute of Mining & Fuel Research (Council of Scientific & Industrial Research) submitted to the MOEF&CC Regional Office vide letter no.-RASPL/KGP/2020-2021/01 dated 16.06.2020.
VIII. Public hearing and Human health issues		
		Complied.
i.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	A copy of Emergency preparedness plan, Hazard identification and Risk Assessment (HIRA) report and Disaster Management Plan has been submitted to the MOEFCC Regional Office vide letter no. RASPL/KGP/2020-2021/01 dated 16.06.2020
ii.	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.	Agreed and being complied Workers working in high temperature zone are provided with proper PPEs and the duration of their shift in those areas will be max. 4 hrs. or less per day compared to the shift in other areas.
iii.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	The said condition is already covered in compliance point no. ii of Public hearing and Human health issues (VIII) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
IX. Corporate Environment Responsibility		
i.	The project proponent shall comply with the provisions contained in this Ministry's OM vide F. No. 22-65/2017-IA. III date 30/09/2020.	The said condition has been modified and already covered in compliance point no. i of Environment Management (IX) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.

ii.	<p>The company shall have a well laid down environmental policy duly approved by the board of directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/ violation of the environmental/ forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/ deviation/violation of the environmental/forest/ wildlife norms/ conditions and / or shareholders/stake holders. The copy of the board resolution in this regard shall be submitted to the MOEF&CC as a part of six-monthly report.</p>	<p>The said condition is already covered in compliance point no. ii of Environment Management (IX) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.</p>
iii.	<p>A separate Environmental cell both at project and company head quarter</p>	<p>The said condition is already covered in compliance point no. iii of Environment Management (IX) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.</p>
X. Miscellaneous		
i.	<p>The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the</p>	<p style="text-align: center;">Complied.</p> <p>Advertisement for environment clearance obtained under clause 7(II) of EIA notification in favour of Rashmi Alloy Steel Pvt. Ltd. , in two local newspapers that are widely circulated in the region are:</p> <ol style="list-style-type: none"> 1. Aajkal dated 20.03.2021 (Bengali) 2. The Echo of India dated 20.03.2021 (English) <p>Advertisement for name change in</p>

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	project proponent's website permanently.	environment clearance in favour of M/s Orissa Alloy Steel Pvt. Ltd. from M/s Rashmi Alloy Steel Pvt. Ltd. , in two local newspapers that are widely circulated in the region are: 1. Aajkal dated 14.05.2021 (Bengali) 2. The Echo of India dated 14.05.2021 (English) The copy of advertisement has been submitted to the MOEFCC Regional Office vide letter no. OASPL/ENV COMPL/JUNE 2021 dated 01.06.2021.
ii.	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Complied. Copies of EC dated 12.05.2021 w.r.t name change submitted to DM, Paschim Medinipur & Barkola Gram Panchayat vide letter dated 09.06.2021 and 14.07.2021. EC copy also uploaded on the website of the company http://orissametaliks.com/gehs.html . Copy of intimation letters has been submitted to your good office vide letter OASPL/ENV COMP/DEC2021 dated 27.11.2021.
iii.	The project proponent shall upload the environmental clearance and status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Complied The environmental clearance and status of compliance of the stipulated environment clearance conditions, including results of monitored data have been uploaded on the website of the company - http://orissametaliks.com/gehs.html
iv.	The project proponent shall monitor the criteria pollutants level namely; PM ₁₀ , SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	The said condition is already covered in compliance point no. iv of Miscellaneous (X) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
v.	The project proponent shall	Compliance of latest consolidated EC is

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	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 submitted. The said condition is already covered in compliance point no. v of Miscellaneous (X) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
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.	The said condition is already covered in compliance point no. vi of Miscellaneous (X) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
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 concerned authorities, commencing the land development work and start of production operation by the project.	The said condition is already covered in compliance point no. vii of Miscellaneous (X) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
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.	The said condition is already covered in compliance point no. viii of Miscellaneous (X) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
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).	Agreed and being complied.
x.	Concealing factual data or	Agreed and Noted.

	submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	
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. The Company in a time bound manner shall implement these conditions.	Agreed and Noted.
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.
Transfer of environmental clearance from M/s Orissa Metaliks Private Limited to M/s Rashmi Alloy Steel Private Limited vides F. No. J-11011/169/2017-IA.II(I) dated 28.01.2020		
i.	M/s Rashmi Alloy Steel Private Limited shall comply with the all specific and general conditions stipulated in the Environmental Clearance letter of even no. dated 03.04.2019.	Agreed and Noted.
ii.	In case, there is change in the scope of the, fresh environmental clearance shall be obtained.	Agreed and Noted.


--	The project proponent shall make public the environmental clearance granted for their project	Advertisement for environment clearance transfer in two local newspapers that are widely circulated in the region are: 3. Aajkal dated 02.02.2020 (Bengali) 4. The Echo of India dated 31.01.2020 (English) The copy of advertisement has been submitted to the MOEFCC Regional Office vide letter no. RASPL/ENV COMPL/JUNE 2020 dated 28.05.2020.
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Environmental Clearance for "Integrated Steel Plant (1.2 MTPA) with 225 MW CPP" issued vide F. No. IA-J-11011/169/2017-IA-II(I) dated 03.04.2019 to M/s Orissa Metaliks Private Limited

A. Specific Conditions

i.	No groundwater shall be used during operation of the plant.	Agreed and being complied.
ii.	The entire quantity of the Iron Ore slime shall be utilized and no dumping shall be allowed inside and outside of the plant premises for the purpose of disposal.	The said condition has been modified and already covered in compliance point no. vii of Specific conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
iii.	Overflow water from tar storage tank of producer Gas Plant shall be treated and recycled.	The said condition has been modified and already covered in compliance point no. xi of Specific conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
iv.	Project proponent shall explore the market for utilization of the sludge generated from acid recovery plant.	The said condition has been modified and already covered in compliance point no. xix of Specific conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
v.	Waste heat recovery system shall be implemented for the Sinter cooler.	Agreed and note for compliance. Sinter Plant is not installed yet.

vi.	Greenbelt development shall be completed in two years.	The said condition has been modified and already covered in compliance point no. xxii of Specific conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
vii.	A programme for the skill development shall be initiated to improve the employability of the local youth in the proposed project.	Complied. In the financial year (2019-2020) we recruited more than 100 youths from various technical institutions, 7 from job fairs and given them training as per requirements in different units. In this financial year 2023-2024 till date more than 150 no. of local youths from various technical institution, from job fair were recruited.
viii.	CER activities shall be implemented in project mode within 2 years.	The said condition has been modified and already covered in compliance point no. iv of Specific conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
B. General Condition		
I. Statutory Compliance:		
i.	The project proponent shall obtain Consent to Establish/ Operate under the provisions of Air (prevention & Control of Pollution) Act, 1981 and the Water prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/committee.	Agreed and being complied.
ii.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Agreed and being complied.
iii.	No further expansion or modifications in the plant shall be carried out without prior	Agreed and being complied.

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	approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC)	
iv.	The waste oil, grease and other hazardous waste like acidic sludge from pickling, galvanizing, chrome plating mills etc. shall be disposed of as per the Hazardous & other waste (management & Transboundary Movement) Rules, 2016. Coal tar sludge/decanter shall be recycled to coke ovens.	Agreed and being complied.
II. Air quality monitoring and preservation		
i.	The project proponent shall install 24X7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (protection) Rules 1986 vide G.S.R 277 (E) dated 31st March 2012 (Integrated iron & Steel); G.S.R 414 (E) dated 30th May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (thermal power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under environment (protection) Act, 1986 or NABL accredited laboratories.	The said condition 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 (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
ii.	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognised under Environment (Protection) Act, 1986.	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 (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no.

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		EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
iii.	The project proponent shall install system to carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g.PM ₁₀ and PM _{2.5} in reference to PM emission, and SO ₂ and NOx in reference to SO ₂ and NOx emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 1200 each), covering upwind and downwind directions.	The said condition has been modified and already covered in compliance point no. ii of Air quality monitoring and preservation (II) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
iv.	The cameras shall be installed at suitable locations for 24X7 recording of battery emissions on the both sides of coke oven batteries and videos shall be preserved for at least one-month recordings.	Noted & will be complied.
v.	Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions.	The said condition is already covered in compliance point no. iii of Air quality monitoring and preservation (II) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
vi.	The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality/fugitive emissions to Regional office of MOEF&CC, zonal office of CPCB and Regional office of SPCB along with six-monthly monitoring	Agreed and being complied.

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	report.	
vii.	Appropriate Air pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.	The said condition is already covered in compliance point no. iv of Air quality monitoring and preservation (II) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
viii.	The project proponent shall provide leakage detection and mechanised bag cleaning facilities for better maintenance of bags.	The said condition is already covered in compliance point no. v of Air quality monitoring and preservation (II) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
ix.	Secondary emission control system shall be provided at SMS Converters.	Noted and will be considered during the design stage.
x.	Pollution control system in the steel plant shall be provided as per the CREP Guidelines of CPCB.	Agreed and being complied.
xi.	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.	The said condition is already covered in compliance point no. vi of Air quality monitoring and preservation (II) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
xii.	Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting /agglomeration.	The said condition is already covered in compliance point no. vii of Air quality monitoring and preservation (II) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.

xiii.	The project proponent uses leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.	The said condition is already covered in compliance point no. viii of Air quality monitoring and preservation (II) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
xiv	Facilities for spillage collection shall be provided for coal and coke on wharf of coke oven batteries (chain conveyors, land based industrial vacuum cleaning facility).	The said condition is already covered in compliance point no. ix of Air quality monitoring and preservation (II) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
xv.	Land-based APC system shall be installed to control coke pushing emissions.	The said condition is already covered in compliance point no. x of Air quality monitoring and preservation (II) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
xvi.	Monitor CO, HC and O ₂ in the flue gases of the coke oven battery to detect combustion efficiency and cross leakages in the combustion chamber.	The said condition is already covered in compliance point no. xi of Air quality monitoring and preservation (II) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
xvii.	Vapour absorption system shall be provided in place of vapour compression system for cooling of coke oven gas in case of recovery type coke ovens.	Not Applicable. Proposed coke oven plant is non-recovery type.
xviii.	In case concentrated ammonia liquor is incinerated, adopt	Agreed and Noted for compliance. Sinter plant is not yet implemented.

	high temperature incineration to destroy dioxins and Furans. Suitable NO _x control facility shall be provided to meet the prescribed standards.	
xix.	The coke oven gas shall be subjected to desulphurization if the sulphur content in the coal exceeds 1%.	The said condition has been modified and already covered in compliance point no. xiii of Specific conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
xx.	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.	The said condition is already covered in compliance point no. xiii of Air quality monitoring and preservation (II) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
xxi.	Design the ventilation system for adequate air changes as per ACGIH document for all tunnels, motor houses, oil cellars.	The said condition is already covered in compliance point no. xiv of Air quality monitoring and preservation (II) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
xxii.	The project proponent shall install Dry Gas Cleaning Plant with bag filter for Blast furnace and SMS converter.	Noted and will be considered during the design stage of blast furnace. Bag filter has been provided with operational SMS.
xxiii.	Dry quenching system (CDQ) system shall be installed along with power generation facility from waste heat recovery from hot cake.	The said condition has been modified and already covered in compliance point no. xii of Specific conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.

III. Water quality monitoring and preservation		
i.	<p>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 and Steel); G.S.R. 414 (E) dated 30th May 2008 (Sponge Iron) as amended from time to time; S.O. 3305(E) dated 7th December 2015 (thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under environment (protection) Act, 1986 or NABL accredited laboratories.</p>	<p>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 (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.</p>
ii.	<p>The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognised under Environment (protection) Act, 1986 and NABL accredited laboratories.</p>	<p>The said condition is already covered in compliance point no. ii of Water quality monitoring and preservation (III) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.</p>
iii.	<p>The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MOEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.</p>	<p>Agreed and being complied.</p>
iv.	<p>The project proponent shall</p>	<p>The said condition is already covered in</p>

	provide the ETP for coke oven and by-product to meet the standards prescribed in G.S.R 277 (E) dated 31 st March 2012 (Integrated Iron & Steel); G.S.R 414 (E) dated 30th Amy 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal power Plants) as amended from time to time .	compliance point no. iii of Water quality monitoring and preservation (III) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
v.	Adhere to 'Zero Liquid Discharge'.	Noted, Plant is being designed on Zero liquid Discharge concept.
vi.	Sewage Treatment Plant shall be provided for treatment of domestic waste water to meet the prescribed standards.	The said condition is already covered in compliance point no. iv of Water quality monitoring and preservation (III) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
vii.	Garland drains and collection pits shall be provided for each stack pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.	The said condition is already covered in compliance point no. v of Water quality monitoring and preservation (III) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
viii.	Tyre washing facilities shall be provided at the entrance of the plant gates.	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 (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
ix.	CO ₂ injection shall be provided in GCP of SMS to reduce pH in circulating water to ensure optimal recycling of treated	Agreed and noted.

	water for converter gas cleaning.	
x.	The project proponent shall practice rainwater harvesting to maximum possible extent.	Agreed and being complied.
xi.	Treated water from ETP of COBP shall not be used for coke quenching.	The said condition has been modified in EC issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
xii.	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. vii of Water quality monitoring and preservation (III) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
xiii.	The project proponent shall make efforts to minimise water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.	Agreed and being complied.
IV. Noise monitoring and prevention		
i.	The ambient noise levels should conform to the standards prescribed under E(P)A rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.	The said condition is already covered in compliance point no. i of Noise monitoring and prevention (IV) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
V. Energy Conservation measures		
i.	The project proponent shall provide TRTs to recover energy from top gases of Blast Furnaces.	The said condition has been modified and covered in compliance point no. xiv of Specific conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no.


 For ORISSA ALLOY STEEL PRIVATE LIMITED
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		EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
ii.	Coke Dry Quenching (CDQ) shall be provided for coke quenching for both recovery and non-recovery type coke ovens;	The said condition has been modified and already covered in compliance point no. xii of Specific conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
iii.	Waste heat shall be recovered from Sinter Plants coolers and Sinter Machines.	The said condition has been modified and already covered in compliance point no. x of Specific conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
iv.	Use torpedo ladle for hot metal transfer as far as possible. If ladles not used, provide covers for open top ladles.	The said condition is already covered in compliance point no. i of Energy Conservation measures (V) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
v.	Use hot charging of slabs and billets/blooms as far as possible.	The said condition is already covered in compliance point no. xviii of Specific conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
vi.	Waste heat recovery systems shall be provided in all units where the flue gas or process gas exceeds 300°C.	Agreed and Noted.
vii.	Explore feasibility to install WHRS at Waste Gases from BF stoves; Sinter Machine; Sinter Cooler, and all reheating	Agreed and will be complied with.

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	furnaces and if feasible shall be installed.	
viii.	Restrict Gas flaring to < 1%.	The said condition is already covered in compliance point no. ii of Energy Conservation measures (V) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
ix.	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 (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
x.	Provide LED lights 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 (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
xi.	Ensure installation of regenerative type burners on all reheating surfaces.	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 (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
VI. Waste management		
i.	An attrition grinding unit to improve the bulk density of BF granulated slag from 1.0 to 1.5 Kg/I shall be installed to use slag as river sand in	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 (1.2 to 2.0 million

	construction industry.	TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
ii.	In case of Non-Recovery coke ovens, the gas main carrying hot flue gases to the boiler, shall be insulated to conserve heat and to maximise heat recovery.	Agreed and being complied.
iii.	Tar Sludge and waste oil shall be blended with coal charged in coke ovens (applicable only to recovery type coke ovens).	Not applicable.
iv.	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 (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
v.	Waste recycling Plant shall be installed to recover scrap, metallic and flux for recycling to sinter plant and SMS.	Agreed and Noted.
vi.	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 (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
vii.	SMS slag after metal recovery in waste recycling facility shall be conditioned and used for road making, railway track ballast and other applications. The project proponent shall install a waste recycling facility to recover metallic and flux for recycle to sinter plant.	Agreed and Noted.


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	The project proponent shall establish linkage for 100% reuse of rejects from Waste Recycling Plant.	
viii.	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 (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
ix.	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 (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
x.	Kitchen waste shall be composted or converted to biogas for further use. VII. Green Belt and EMP.	The said condition is already covered in compliance point no. vi of Waste management (VI) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
VII. Green Belt and EMP		
i.	Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.	The said condition has been modified and covered in compliance point no. xxii of Specific conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
ii.	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme	Complied. We submitted report on GHG emissions inventory for 1.2 MTPA Integrated Steel

	for reduction of the same including carbon sequestration including plantation.	Plant with 225 MW CPP prepared by CSIR, Dhanbad (Central Institute of Mining & Fuel Research (Council of Scientific & Industrial Research) vide letter no- RASPL/KGP/2020-2021/01 dated 16.06.2020, to the MOEF&CC Regional Office.
iii.	The Capital cost INR 105 Crores and annual recurring cost INR 11.35 Crores towards the environmental protection measures shall be earmarked separately. The funds so provided shall not be diverted for any other purpose.	Adequate funds have been deployed by project proponent in CAPEX and OPEX and an itemised action plan has been drawn for implementing the stipulated conditions. The funds so provided shall not be diverted for any other purpose.
iv.	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and that during their presentation to the EAC.	Agreed and Noted.
VIII. Public hearing and Human health issues		
i.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Complied. A copy of Emergency preparedness plan, Hazard identification and Risk Assessment (HIRA) report and Disaster Management Plan has been submitted to the MOEFCC Regional Office vide letter no- RASPL/KGP/2020-2021/01 dated 16.06.2020.
ii.	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.	Agreed and being complied Workers working in high temperature zone are provided with proper PPEs and the duration of their shift in those areas will be max. 4 hrs. or less per day compared to the shift in other areas.
iii.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary	Agreed and being complied. Housing for construction labour outside the site with cooking, toilets, drinking water, medical health care etc. have been provided.

	structures to be removed after the completion of the project.	
iv.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Being Complied with. The occupational health surveillance of the workers is being done on a regular basis and records are maintained as per the Factories Act.
v.	The commitment made by the project proponent to the issues raised during Public Hearing shall be implemented by the proponent.	Being Complied with. An action plan to address the issues raised during public hearing has been prepared and submitted to the MOEFCC regional office vide letter no. RASPL/KGP/2020-2021/01 dated 16.06.2020.
IX. Corporate environment Responsibility		
i.	An amount of INR 2300 lakhs proposed towards Corporate Social Responsibility (CER) shall be utilized as capital expenditure in project mode as per the provisions of Office Memorandum vide F. No. 22-65/2017-IA.III dated 1st May 2018. The project shall be completed in concurrence with the implementation of the expansion and estimated on the basis of Scheduled Rates.	The said condition has been modified and already covered in compliance point no. i of Environment Management (IX) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
ii.	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Iron and Steel plants shall be implemented.	Being Complied.
X. Miscellaneous		
i.	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	Complied. Advertisement within seven days from the date of issue of the Environment clearance transfer, in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned is being made. 1. Aajkal dated 02.02.2020 (Bengali)

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	seven days and in addition this shall also be displayed in the project proponent's website permanently.	<p>2. The Echo of India dated 31.01.2020 (English)</p> <p>The copy of advertisement has been submitted to the MOEFCC Regional Office vide letter no. OMPL/ENV COMPL/December 2019 dated 8.11.2019</p>
ii.	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	<p style="text-align: center;">Complied.</p> <p>The copies of EC were submitted to local bodies, Panchayat.</p>
iii.	The project proponent shall upload the environmental clearance and 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.	<p style="text-align: center;">Being Complied.</p> <p>The environmental clearance and status of compliance of the stipulated environment clearance conditions, including results of monitored data have been uploaded on the website of the company - http://orissametaliks.com/qehs.html</p>
iv.	The project proponent shall monitor the criteria pollutants level namely; PM ₁₀ , SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	<p>The said condition is already covered in compliance point no. iv of Miscellaneous (X) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.</p>
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.	<p>The said condition is already covered in compliance point no. v of Miscellaneous (X) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.</p>

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.	The said condition is already covered in compliance point no. vi of Miscellaneous (X) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
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 concerned authorities, commencing the land development work and start of production operation by the project.	The said condition is already covered in compliance point no. vii of Miscellaneous (X) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
viii.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Agreed and being complied.
ix.	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.	The said condition is already covered in compliance point no. viii of Miscellaneous (X) of General conditions issued for Expansion of Integrated Steel Plant (1.2 to 2.0 million TPA Finished Steel) with 270 MW CPP having EC Identification no. EC22A008WB114687 issued vide F. No. J-11011/169/2017-IA.II (I) dated 10.08.2022.
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).	Agreed and being complied.
xi.	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of	Agreed and Noted.

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	Environment (Protection) Act, 1986.	
xii.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed and Noted.
xiii.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Agreed and Noted.
xiv.	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.
xv.	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.	Agreed and Noted.
xvi.	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	Agreed and Noted.

For ORISSA ALLOY STEEL PRIVATE LIMITED


Director / Authorised Signatory

the National Green Tribunal Act, 2010. This issues with approval of Competent Authority.	
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For ORISSA ALLOY STEEL PRIVATE LIMITED

Director / Authorised Signatory

Half Yearly Compliance Report

2024

01 Jun(01 Oct - 31 Mar)

Acknowledgment

Proposal Name	Expansion of Integrated Steel Plant (1.2 to 2.0 Million TPA Finished Steel) with 270 MW Captive Power Plant		
Name of Entity / Corporate Office	Expansion of Integrated Steel Plant (1.2 to 2.0 Million TPA Finished Steel) with 270 MW Captive Power Plant		
Village(s)	N/A		
District	MEDINIPUR  WEST		
Proposal No.	IA/WB/IND/261449/2021	Category	Industrial Projects - 1
Plot / Survey / Khasra No.	N/A	Sub-District	N/A
State	WEST BENGAL	Entity's PAN	NA
MoEF File No.	J-11011/169/2017-IA.II(I)	Entity name as per PAN	NA

Compliance Reporting Details

Reporting Year	2024
Remarks (if any)	Six Monthly (June-2024) Compliance Report for Period October 2023 to March 2024 for Expansion of Integrated Steel Plant (1.2 to 2.0 Million TPA Finished Steel) with 270 MW Captive Power Plant for Expansion of Integrated Steel Plant (1.2 To 2.0 Million TPA Finished Steel) with 270 MW Captive Power Plant located at Mouza – Nandarchalk, Bargai, Shyamraipur & Kanjarichak, Village- Gokulpur, P.O.- Shyamraipur, P.S.- Kharagpur (L), Dist. Paschim Medinipur, W.B. by M/s. Orissa Alloy Steel Pvt. Ltd.
Reporting Period	01 Jun(01 Oct - 31 Mar)

Details of Production and Project Area

Name of Entity / Corporate Office	Expansion of Integrated Steel Plant (1.2 to 2.0 Million TPA Finished Steel) with 270 MW Captive Power Plant	
	Project Area as per EC Granted	Annual Project Area in Possession

Private	145.69	145.69
Revenue Land	0	0
Forest	0	0
Others	0	0
Total	145.69	145.69

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Hot Liquid Metal / Pig Iron/ High Quality Billet & steel product	Million Tons per Annum (MTPA)	N/A	0.77	-	-
2	Sinter	Million Tons per Annum (MTPA)	N/A	0.84	-	-
3	Sponge Iron	Million Tons per Annum (MTPA)	31/07/2024	1.80	0.776088	1.8
4	M.S Billet	Million Tons per Annum (MTPA)	31/07/2024	1.80	0.01051907	0.3564
5	Ferro Alloys (FeMn, FeSi, SiMn & FeCr)	Million Tons per Annum (MTPA)	31/07/2024	0.078	0.040972	0.078
6	Metal Recovery (SMS Slag Crusher)	Tons per Day (TPD)	N/A	100	-	-
7	Metal Recovery (Jigging Plant)	Tons per Day (TPD)	N/A	30	-	-
8	Chrome Briquette	Others:TPH	N/A	40	-	-
9	Metallurgical Coke	Million Tons per Annum (MTPA)	31/07/2024	0.55	0.09792786	0.55
10	Lime & Dolomite	Tons per Day (TPD)	N/A	200	-	-
11	Oxygen	Tons per Day (TPD)	N/A	600	-	-
12	TMT Bar, Wire, Wire Rod	Million Tons per Annum (MTPA)	N/A	1.8	-	-
13	Finished DI Pipe	Million Tons per Annum (MTPA)	31/07/2024	0.20	-	0.20
14	CAPTIVE POWER PLANT (WHRB)	MW	31/07/2024	180	-	178
15	POWER PLANT (CFBC)	MW	N/A	90	-	-
16	Iron Pellet	Million Tons	31/07/2024	11	1.631651128	3

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	AIR QUALITY MONITORING AND PRESERVATION	Dust emission from Steel Plant stacks shall be up to 30 mg/Nm ³ .
PPs Submission: Being Complied Agreed, APC devices are designed to keep the emission below 30 mg/Nm ³ . Recent OCEMS data is uploaded.		Date: 24/05/2024
2	Statutory compliance	The net water requirement of the ISP after implementation of proposed expansion project would be around 491.67 m ³ /hr (11,800 KLD) which will be obtained from Kharagpur Municipality and Treated waste water. Bore well supply as envisaged earlier will be completely replaced by surface water/ treated waste water in the present proposal for operation phase of the project. No ground water extraction is permitted.
PPs Submission: Being Complied Noted and being complied.		Date: 24/05/2024
3	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 An area of around 48.60 hectare has already been covered under greenbelt @ 2500 trees per hectare (1,21,509 nos.) till March 2024. In addition to this 3000 Nos. of saplings on occasion of Safety day were distributed to nearby school children/ villagers for green belt development. Details of green belt development is uploaded. Survival rate of green belt developed being monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years.		Date: 24/05/2024
4	Statutory compliance	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 implemented in the plant area to arrest soil erosion and dust pollution.		Date: 24/05/2024
5	Statutory compliance	Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Regional Office of the MoEF&CC. i. Ductile Iron (DI) plant shall have the following provisions: a. Bag filter for Zn coating and Mg converter area. b. Wet scrubbers in paint and bitumen coating area. c. Bag Filter in Cement lining area. d. PTFE dipped bags shall be used in the plant. e. PM emissions from BF in Zinc coating area shall be 5 mg/Nm ³ . f. ETP with recycling facility shall be included.
PPs Submission: Being Complied Agreed, the performance test/stack monitoring is conducted on all pollution control systems on quarterly basis for operational unit by NABL/WBPCB accredited laboratory. Stack Monitoring		Date: 24/05/2024

		report is uploaded. Ductile Iron Pipe finishing line is equipped with Bag filter.	
6	WATER QUALITY MONITORING AND PRESERVATION	Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.	
PPs Submission: Complied Agreed, 01 nos. rain water harvesting being implemented to harvest water. Harvested water is used as industrial make up water and also for dust suppression and green belt development.			Date: 24/05/2024
7	Statutory compliance	The proposed project shall be designed as "Zero Liquid Discharge" Plant. No waste water will be discharged outside the plant boundary.	
PPs Submission: Complied Agreed, no waste water discharged outside the plant boundary. ETP cum STP of adequate capacity is installed to treat the effluent and reused 100% in plant operation, for dust suppression and green belt development.			Date: 24/05/2024
8	Statutory compliance	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.	
PPs Submission: Being Complied We have made contract with the authorized e-waste recyclers, the electronic waste generated in the industry will be dispose off by the authorized vendor.			Date: 24/05/2024
9	Statutory compliance	Railway siding shall be completed by June 2022, as committed by the PP.	
PPs Submission: Complied Complied.			Date: 24/05/2024
10	Statutory compliance	PP shall prepare and implement an action plan giving annual improvement targets for resource conservation and environment improvement. This plan shall be monitored by the concerned Regional Office of the MoEF&CC.	
PPs Submission: Being Complied The project is still under implementation phase. However 3R's (Reuse, Recycle & Recover Techniques), energy and natural resource conservation measures adopted by management of OASPL are as: Reuse: a) Dust collected from Pellet plant had been/ will be reused in the pellet process. b) Char & Dolochar from DRI Plant being used in CFBC Boilers for power generation resulting reduction in non-renewable source i.e. coal. c) Slag generated during Ferro Manganese production had been/ will be used as a raw material for Silico Manganese production. d) Slag generated during Silico Manganese production had been/ will be used for road construction/ land filling. e) Magnesium dust from DI pipe plant had been/will be used in Sinter Plant of associate company. f) Cement slurry from DI pipe plant will be used Brick making and also in associate company of Cement Plant. g) Tar Sludge from Producer gas plant will be sold to SPCB authorized vendor. Recycle: a) Recycling or usage of recycled water at every stage of the process b) The process water had been/ will be treated in ETP and recycled in the process and within plant premises. c) Domestic water had been/ will be treated in STP and will be used for dust suppression & green belt development. d) Phenolic water from producer gas plant had been/ will be used in ABC of DRI Kiln. Recovery: a) Waste Heat Recovery boiler with DRI and Coke oven plant had been/ will be installed to capture sensible heat from waste heat. h) Partial Air cooled type cooling system had been/ will be installed with power plant resulting reduction in water consumption. Energy Conservation: a) Power Generation with WHRB (Without using fossil fuel) -136 MW from 4 x 600 + 2 x 1,200 TPD DRI Kiln based WHRB b) Power Generation with WHRB (Without using fossil fuel) in coke oven plant-WHRB attached with coke oven will generate 42 MW of electricity. c) Use of better quality raw material in DRI & BF resulting reduction in specific energy conservation. d) Use of energy efficient electric motors complying IEE3 Standards. e) Use of highly efficient VFD, minimizing idle running			Date: 24/05/2024

		of machines. f) Optimizing loads and periodic preventive maintenance & lubrication g) Prevention of leakages of compressed air h) Optimized compressed air pressure. i) Periodic energy audits. j) Training, awareness and motivational programmes. k) Maximum utilization of renewable energy resources. l) Installation of energy efficient lightings. m) Use of energy saving light fittings. n) Installation of LED/CFL lighting. Natural Resource Conservation: a) Water had been/ will be conserved by practicing rainwater harvesting and maximum recycling within the plant premises. b) Waste water after treatment had been/ will be used after treatment in the plant. c) Solar street with LED is installed in common area and parking etc.	
11	ENERGY PRESERVATION MEASURES	Energy efficient drives, VFD for auxiliary motors and slip power recovery system 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 being installed in parallel with implementation of the project.		Date: 24/05/2024
12	AIR QUALITY MONITORING AND PRESERVATION	PTFE Membrane bags shall be used in filter bag house and designed for 150% of normal design air flow.	
	PPs Submission: Being Complied Being complied with and will be complied in parallel with implementation of the project. Adequate capacity of Bag Filter has been installed in Ferro alloy plant, secondary unit of DRI plant, DIP finishing line and in Pellet Plant.		Date: 24/05/2024
13	AIR QUALITY MONITORING AND PRESERVATION	Shall use ultralow NOx burner with three stage combustion, flue gas recirculation and auto combustion control system. Shall use Post combustion control system (SCR/SCNR process) with NH3 monitoring when Ammonia is used.	
	PPs Submission: Agreed to Comply Sinter plant and Coal based CPP is not yet commissioned and during design phase it will be considered.		Date: 24/05/2024
14	MISCELLANEOUS	Parking area for trucks/dumpers shall be provided within the steel plant. No truck/dumper shall be parked outside the steel plant premises	
	PPs Submission: Being Complied 6.04 hectare is allocated for parking area for trucks/dumpers within the steel plant. No truck/dumper being parked outside the steel plant premises.		Date: 24/05/2024
15	MISCELLANEOUS	PP reported that out of the 145.69 hectare of land, 131.53 hectare of land is already in possession of M/s Orissa Alloy Steel Private Limited (Formerly M/s Rashmi Alloy Steel Private Limited) and for rest of land (14.16 ha) consent from private rayat obtained, however land is not yet acquired. This EC is subject to obtaining complete acquisition of land required for the proposed expansion project.	
	PPs Submission: Agreed to Comply Agreed and Noted.		Date: 24/05/2024
16	Human Health Environment	This is an existing Unit. PP shall controlled the air pollutants-PM2.5, PM10, SO2, NOx, CO emissions in the occupational environment of different process plants, within the permissible exposure limits of as per the Factories Act. PP shall do the monitoring of industrial hygiene survey within occupational environments in order to ensure good environment within the industry, so that workers health is ensured.	

PPs Submission: Being Complied The occupational health surveillance of the workers is being done on a regular basis and records are maintained as per the Factories Act. The OHS Record is attached.		Date: 24/05/2024
17	Human Health Environment	During operational phase at Captive Power Plant PP shall to measure coal dust exposures and to maintain coal dust exposures within stipulated standards at coal handling areas, conveyer belt and coal crushing area-ball mill. PP shall identify extreme hot areas through heat stress survey as well as noise monitoring within process plants to ensure that workers not exposed above 90 dBA levels as per Factories Act, 1948.
PPs Submission: Agreed to Comply Agreed and Noted.		Date: 24/05/2024
18	WASTE MANAGEMENT	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.
PPs Submission: Being Complied We have made contract with the authorized e-waste recyclers, the electronic waste generated in the industry being dispose of by the authorized vendor.		Date: 24/05/2024
19	MISCELLANEOUS	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.
PPs Submission: Agreed to Comply Agreed and noted.		Date: 24/05/2024
20	Statutory compliance	The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
PPs Submission: Being Complied Agreed and being complied. We are complying all the environmental protection measures and safeguards proposed in the documents (EIA/EMP) submitted to the Ministry.		Date: 24/05/2024
21	Statutory compliance	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 The project is still in implementation phase. The flue gas generated from Coke Oven Plant, DRI plant is utilized in power generation. In order to reduce carbon emission dependency on WHRB based power plant is being practiced and currently 136 MW WHRB DRI based CPP & 42 MW from Coke Oven gas, in total 178 MW is in operation and in future capacity will be increased to 180 MW. Plantation is a suitable method to sequester carbon and 33% of the plant area being developed under greenbelt. An area of around 48.60 hectare has already been covered under greenbelt @ 2500 trees per hectare (1,21,509 nos.) till March 2024. In addition to this 3000 Nos. of saplings on occasion of Safety day were distributed to nearby school children/ villagers for green belt development In Financial year 2023-24. Details of green belt development is attached.		Date: 24/05/2024
22	PUBLIC HEARING	The activities and the action plan proposed by the project proponent to address the issues raised during public hearing and socio-economic

		issues in the study area shall be completed as per the schedule presented before the Committee and as described in the EIA report in letter and spirit.	
		<p>PPs Submission: Being Complied Noted and will be complied in time bound manner. In last two financial year Rs. 1,51,17,813 is spent under CSR/CER head on various activities in nearby villages to address the issues raised during public hearing and socio-economic issues in the study area. Area of Work: • Financial support to School, • Drinking Water Facility, • Village Road Construction/ Repairing • Construction of community center, etc. • Development of play ground • Paver footpath construction near Bargai Health care • Construction / Repairing of community prayer center, etc. • Plantation at Road side. • Installation of Street Light.</p>	Date: 24/05/2024
23	WATER QUALITY MONITORING AND PRESERVATION	Water bodies exist within the study area from the project site. The water bodies shall not be disturbed. Landscaping shall be done on both embankments, with green belt covering 10 m land on both sides. This shall be in addition to the 33% green belt development.	
		<p>PPs Submission: Complied No water body will be disturbed which exists within the study area from the project site.</p>	Date: 24/05/2024
24	WASTE MANAGEMENT	Tailings from Iron Ore washing plant shall be dewatered in filter press and no slime /tailing pond shall be permitted.	
		<p>PPs Submission: Being Complied Currently, wet grinding is being practiced and no tailing is being generated.</p>	Date: 24/05/2024
25	WASTE MANAGEMENT	Iron ore slimes shall be dewatered and disposed dry. The recovered water shall be reused in the process. Ponding of tailings shall not be permitted. Maximum storage for tailings in the plant shall not exceed 90 days.	
		<p>PPs Submission: Being Complied Agreed, The recovered water is reused and return back to the process.</p>	Date: 24/05/2024
26	WASTE MANAGEMENT	Rejects from coal washery shall only be used either in the captive power plant (or) in the Thermal Power Plants meeting emission standards.	
		<p>PPs Submission: Agreed to Comply Agreed, rejects from coal washery will be used in the captive power plant (or) in the Thermal Power Plants meeting emission standards.</p>	Date: 24/05/2024
27	WASTE MANAGEMENT	Solid waste utilization • 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. • PP shall recycle/reuse 100 % solid waste generated in the plant. • Used refractories shall be recycled as far as possible.	
		<p>PPs Submission: Being Complied Noted and being complied in a time bound manner. Dolochar generated from operational DRI kilns are used in CFBC Boilers of the Group Companies. SMS Slag used for road construction/ Land levelling purpose after recovering metal from Slag Crushing unit. Slag generated during Ferro Manganese production will be used as a raw material for Silico Manganese production. Slag generated during Silico Manganese production will be used for road construction/land filling. Dust from APC devices are used in Sinter Plant of associate companies of the Group and Brick Manufacturing, Pelletisation mix.</p>	Date: 24/05/2024

28	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 Noted and will be complied prior to the commencement of the plant operation activity.			Date: 24/05/2024
29	WASTE MANAGEMENT	Tar shall be recovered from producer gas and shall be sold to registered processors and phenolic water shall be incinerated in After Burn Chamber (ABC) of DRI kilns.	
PPs Submission: Being Complied Agreed, tar recovered from producer gas being is sold to registered processors and used as a fuel in pellet plant and phenolic water incinerated in After Burn Chamber (ABC) of DRI kilns.			Date: 24/05/2024
30	Statutory compliance	Coke oven plant shall be equipped with modified wet quenching system.	
PPs Submission: Being Complied Agreed, coke oven plant equipped with modified wet quenching system and water is recycled post primary settlement.			Date: 24/05/2024
31	AIR QUALITY MONITORING AND PRESERVATION	Coke Oven Gas shall be desulfurized.	
PPs Submission: Being Complied Noted and being complied.			Date: 24/05/2024
32	ENERGY PRESERVATION MEASURES	Blast Furnaces shall be equipped with Top Recovery Turbine (capacity more than 550 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 Noted and will be considered during the design stage.			Date: 24/05/2024
33	AIR QUALITY MONITORING AND PRESERVATION	Secondary fume extraction system shall be installed on converters of Steel Melting Shop.	
PPs Submission: Agreed to Comply Noted and will be considered during the design stage.			Date: 24/05/2024
34	AIR QUALITY MONITORING AND PRESERVATION	Basic Oxygen Furnace (BOF) gas shall be cleaned dry.	
PPs Submission: Agreed to Comply Noted and will be considered during the design stage.			Date: 24/05/2024
35	AIR QUALITY MONITORING AND PRESERVATION	Electric Arc Furnace shall be closed type with 4th hole extraction system	
PPs Submission: Complied			Date:

Not applicable as no Electric Arc Furnace is being proposed.		24/05/2024
36	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. Rolling mill is still not commissioned.		Date: 24/05/2024
37	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.
PPs Submission: Complied Not applicable as Cold Rolling Mill (CRM), colour coating and galvanizing plants is not proposed.		Date: 24/05/2024
General Conditions		
Sr.No.	Condition Type	Condition Details
1	Statutory compliance	The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.
PPs Submission: Agreed to Comply Noted.		Date: 24/05/2024
2	AIR QUALITY MONITORING AND PRESERVATION	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
PPs Submission: Being Complied 4 X 9 MVA Ferro Alloy Plants; 04 X 600 TPD + 2 x 1200 TPD DRI plant with 136 MW WHRB based CPP, 0.2 MTPA DIP finishing line, 3.0 MTPA Pellet plant with matching beneficiation and 20 X 7500 N.Cu.M PGP, 0.3564 MTPA SMS with matching CCM, along with 0.55 MTPA coke oven plant with 42 MW WHRB based CPP, is having valid consent to operate from WBPCB. Adequate APCD is installed with the operational units. The details are as: a) Bag Filter with Heat Exchanger with Ferro Alloy Plant b) ESP with WHRB with DRI plant c) ESP with Pellet Plant d) Bag Filter with SMS (I.F.) e) WHRB & Bag Filter with Coke oven plant f) Inbuilt Electrostatic Tar Separator with PGP g) Bag Filter with DIP plant Action taken by company for maintain good housekeeping and controlling emission are: Dust suppression systems are/ will be provided at raw material handling, product handling, transfer points, loading and unloading points to control fugitive emission. Covered shed and conveyor belts have been provided at various points such as material transfer points, and other enclosed raw material handling areas for control of fugitive emissions. Bag houses are designed to meet the standard below 30 mg/Nm ³ . 03 nos. of dedicated Street sweeper machine and 04 nos. movable water tankers are being used. Dedicated 04 No. water spraying tankers are in use. 02 no. fixed Water mist fog system has been installed and in used in order to reduce the fugitive dust. 01 no. movable Water mist fog system has been installed and in used in order to reduce the fugitive dust. We have provided GPS enabled tractor mounted water tanker for suppression of dust at nearby villages. Water sprinkler/ water gun along the roadside is being installed to reduce fugitive emission. Speed limits are enforced for movement of vehicles at the site as per the factory limits Concreting of internal road with proper drainage system to reduce		Date: 24/05/2024

		vehicular emission is going on in parallel with implementation of the project. Trucks movement for transporting raw materials & solid waste in fully covered way to avoid dust pollution. Dedicated truck parking facility. Engaged more numbers of dedicated Housekeeping team with proper training and equipment. Regular painting and cleaning / white washing of wall. Scraps are stored in proper demarcated area with proper marking. Hazardous wastes are stored in dedicated HZW store. Regular cleaning of drain systems pre & post monsoon is done. Green belt with density of 2500 per hectare along and around boundary of the site towards the highway is being developed. Also to ensure Ambient Air Quality is meeting the prescribed standard AAQ0 & Fugitive Monitoring is being done on regular basis by NABL/ MoEF accredited laboratory. Latest Ambient Air Quality Monitoring Analysis reports carried by NABL/MoEF accredited lab are already attached.	
3	AIR QUALITY MONITORING AND PRESERVATION	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	
PPs Submission: Being Complied Agreed and is considered in design stage.			Date: 24/05/2024
4	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 03 nos. of dedicated Street sweeper machine and 04 nos. movable water tankers are being used. Dedicated 04 No water spraying tankers are in use. 02 no fixed Water mist fog system has been installed and in used in order to reduce the fugitive dust. 01 no movable Water mist system has been installed and in used in order to reduce the fugitive dust.			Date: 24/05/2024
5	AIR QUALITY MONITORING AND PRESERVATION	Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/ agglomeration.	
PPs Submission: Being Complied Agreed and will be complied in parallel with implementation of the project. For valid CTO obtained units following measures are being adopted: Iron ore fines are feed into pellet plant for making pellet, APC fines from DRI plant is used for brick making; Pellet fines are recycled back to the process. SMS slag after metal recovery is used in brick/paver block making or land levelling. Coke fines are used in sinter plant of associate company of the Group. TCLP & Leachate Test report is uploaded.			Date: 24/05/2024
6	AIR QUALITY MONITORING AND PRESERVATION	The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.	
PPs Submission: Being Complied The raw materials are transported in covered dumpers or covered with tarpaulin. Overloading of truck is strictly prohibited.			Date: 24/05/2024
7	AIR QUALITY MONITORING AND PRESERVATION	Facilities for spillage collection shall be provided for coal and coke on wharf of coke oven batteries (Chain conveyors, land based industrial vacuum cleaning facility).	
PPs Submission: Complied Facilities for spillage collection coal and coke on wharf of coke oven batteries (chain conveyors, land based industrial vacuum cleaning facility) are made during the design stage of the plant. Bag Filter is attached with sufficient vent from platform for Coke Pushing/ Charging car.			Date: 24/05/2024
8	AIR QUALITY MONITORING AND PRESERVATION	Land-based APC system shall be installed to control coke pushing emissions.	

	PRESERVATION		
	PPs Submission: Complied Land-based APC system is considered during the design stage. The details are as: a) A large gas suction hood fixed on the coke guide car and moving with the coke guide, sending fumes to the coke side dust collecting duct; b) The dust collection duct; and c) The final equipment for smoke purification on the ground (ground piping, accumulator cooler, pulse bag dust collector, silencer, ventilation unit, stack, etc.). d) Dust extraction system with bag filters is provided at different places. Emission is maintained below 30 mg/Nm ³ .		Date: 24/05/2024
9	AIR QUALITY MONITORING AND PRESERVATION	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	
	PPs Submission: Being Complied CO, HC and O ₂ in flue gases of the coke oven battery monitor to detect combustion efficiency and cross leakages in the combustion chamber.		Date: 24/05/2024
10	AIR QUALITY MONITORING AND PRESERVATION	Vapour absorption system shall be provided in place of vapour compression system for cooling of coke oven gas in case of recovery type coke ovens.	
	PPs Submission: Complied Not Applicable. Proposed coke oven plant is non-recovery type.		Date: 24/05/2024
11	AIR QUALITY MONITORING AND PRESERVATION	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.	
	PPs Submission: Being Complied Raw materials are currently stored under covered shed or covered with tarpaulin. Water spraying is done on regular basis by movable water mist fog canon system to prevent the diffusion of particles in the atmosphere.		Date: 24/05/2024
12	AIR QUALITY MONITORING AND PRESERVATION	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.	
	PPs Submission: Being Complied Noted and is being considered in design stage.		Date: 24/05/2024
13	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31st March 2012 (Integrated iron & Steel); G.S.R 414 (E) dated 30th May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	
	PPs Submission: Being Complied The project is still under the construction phase. The plant is being designed as Zero Liquid Discharge (ZLD) and 100% water is recycled after treatment and is used in process, dust suppression & green belt development. Effluent water is being monitored by agency M/s Qualissure Laboratory Services, Kolkata which is NABL accredited laboratory. Effluent water quality report done by NABL accredited lab is attached.		Date: 24/05/2024

14	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall monitor regularly ground water quality at least twice a year (pre and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.
PPs Submission: Being Complied The project is still under implementation phase. Manual effluent testing and manual monitoring of ground water quality are carried by third party agency (NABL accredited laboratory) at least twice a year (pre and post monsoon) in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories. Latest Ground water analysis report is attached.		Date: 24/05/2024
15	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall provide the ETP to meet the standards prescribed in G.S.R 277 (E) dated 31st March 2012 (Integrated iron & Steel); G.S.R 414 (E) dated 30th May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time.
PPs Submission: Being Complied STP cum ETP of adequate capacity already installed at site for treatment of the waste water and treated water is recycled/ reused in the process.		Date: 24/05/2024
16	WATER QUALITY MONITORING AND PRESERVATION	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
PPs Submission: Being Complied As stated in point no.-iii, STP of adequate capacity already installed at site for treatment of the waste water and treated water will be 100% recycled/reused in the process.		Date: 24/05/2024
17	WATER QUALITY MONITORING AND PRESERVATION	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.
PPs Submission: Being Complied The project is under construction phase, Garland drains and collection pits are being developed to arrest run off of water. Run off water is stored in existing rain water harvesting pond of sufficient capacity.		Date: 24/05/2024
18	WATER QUALITY MONITORING AND PRESERVATION	Tyre washing facilities shall be provided at the entrance of the plant gates.
PPs Submission: Complied Tyre washing facility is constructed and provided at the entrance of the plant gates.		Date: 24/05/2024
19	WATER QUALITY MONITORING AND PRESERVATION	Water meters shall be provided at the inlet to all unit processes in the steel plants.
PPs Submission: Complied Plant is being operated on treated waste water from ETP/STP plant. Water meters are installed at the inlet to all unit process in the steel plant.		Date: 24/05/2024
20	Noise Monitoring & Prevention	Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.

<p>PPs Submission: Being Complied Work & Ambient noise monitoring carried by M/s Qualisure Laboratory Services, Kolkata which is a NABL accredited laboratory. Noise level has been monitored at work zone at six places i.e. 1) Construction Site CPP, 2) Ferro Alloy Plant Area, 3) DRI & Pellet Plant Area, 4) Railway Siding Area, 5) Coke Oven Plant Area, 6) SMS Area, Ambient Noise has been monitored at four places i.e. 1) Near Plant Main, 2) Barkola Village, 3) Jharia Village, 4) Dangar Para by third party monitoring agency. As per monitoring reports submitted. Ambient Noise & Source Noise Monitoring Reports are attached.</p>		Date: 24/05/2024
21	ENERGY PRESERVATION MEASURES	Use torpedo ladle for hot metal transfer as far as possible. If ladles not used, provide covers for open top ladles.
<p>PPs Submission: Agreed to Comply Agreed and will be considered in operation phase of MBF plant.</p>		Date: 24/05/2024
22	ENERGY PRESERVATION MEASURES	Restrict Gas flaring to < 1%.
<p>PPs Submission: Agreed to Comply Noted. Still MBF plant is not implemented. The subject point will be considered in operation phase of MBF.</p>		Date: 24/05/2024
23	ENERGY PRESERVATION MEASURES	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;
<p>PPs Submission: Being Complied Solar lighting system is installed at Administrative building, common area, Main gates, Parking area in parallel with implementation of the project.</p>		Date: 24/05/2024
24	ENERGY PRESERVATION MEASURES	Provide LED lights in their offices and residential areas.
<p>PPs Submission: Being Complied LED lights in the offices and residential areas are provided and will be provided more in parallel with implementation of the project.</p>		Date: 24/05/2024
25	ENERGY PRESERVATION MEASURES	Ensure installation of regenerative/recuperative type burners on all reheating furnaces.
<p>PPs Submission: Agreed to Comply Recuperative type energy efficient burner (equivalent to regenerative type) will be considered at design phase in Reheating furnaces.</p>		Date: 24/05/2024
26	WASTE MANAGEMENT	An attrition grinding unit to improve the bulk density of BF granulated slag from 1.0 to 1.5 Kg/I shall be installed to use slag as river sand in construction industry.
<p>PPs Submission: Agreed to Comply Still MBF plant is not implemented. Blast Furnace slag will be used for cement making in associate company of the Group.</p>		Date: 24/05/2024
27	WASTE MANAGEMENT	Carbon recovery plant to recover the elemental carbon present in GCP slurries for use in Sinter plant shall be installed.
<p>PPs Submission: Agreed to Comply Noted and will be considered during the operation phase.</p>		Date: 24/05/2024

28	WASTE MANAGEMENT	Used refractories shall be recycled as far as possible.	
PPs Submission: Being Complied Kiln accretion/broken refractory mass used in associate company Sinter Plant, Cement Manufacturing, and land levelling.			Date: 24/05/2024
29	WASTE MANAGEMENT	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.	
PPs Submission: Agreed to Comply Coal based CPP plant is not yet implemented and as on date no fly ash is generated. MOU for utilization of fly ash in cement plant of associate company (Rashmi Cement Limited (Cement Division), Jhargram & Bansal Cement Pvt. Ltd. Kharagpur) already made and submitted to ministry.			Date: 24/05/2024
30	WASTE MANAGEMENT	Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil. Oil collection trays shall be provided under coils on saddles in cold rolled coil storage area.	
PPs Submission: Agreed to Comply Noted and will be considered during design phase of Rolling mill.			Date: 24/05/2024
31	WASTE MANAGEMENT	Kitchen waste shall be composted or converted to biogas for further use.	
PPs Submission: Being Complied Kitchen wastes are being composted and used in green belt development.			Date: 24/05/2024
32	GREENBELT	PP shall undertake the backlog and gap filling of greenbelt work@ 2500plants/hectare in the 2022 monsoon season itself and shall accordingly increase the budget for green belt purpose.	
PPs Submission: Being Complied We're regularly working on backlog and gap filling for greenbelt. Survival rate of green belt developed being monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years.			Date: 24/05/2024
33	GREENBELT	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the program for reduction of the same including carbon sequestration by trees.	
PPs Submission: Complied Updated details of Carbon Foot Prints and Carbon Sequestration (GHG emissions inventory for the plant) is already submitted to IRO-MoEFCC, Kolkata sub office vide letter no. -OASPL/ENV COMPL/JUNE 2023 dated 21.05.2023.			Date: 24/05/2024
34	GREENBELT	Project proponent shall submit a study report within six months on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitorable with defined time frames.	
PPs Submission: Complied			Date:

		In order to reduce carbon emission dependency on WHRB based power plant is being in operation and currently 136 MW WHRB DRI based CPP & 42 MW from Coke Oven Plant Total 178 MW is in operation and in future capacity will be increased to 180 MW. Also process optimisation, modern technologies being adopted to reduce carbon emission. Carbon Foot Prints and Carbon Sequestration is already submitted to IRO-MoEFCC, Kolkata sub office vide letter no. -OASPL/ENV COMPL/JUNE 2023 dated 21.05.2023.	24/05/2024
35	PUBLIC HEARING	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	
		PPs Submission: Complied Copy of updated Emergency preparedness plan, Hazard identification and Risk Assessment (HIRA) report and Disaster Management Plan is already submitted vide EC compliance (Dec-2022) vide letter no.-OASPL/ENV_COMP/DECEMBER 2022 dated 21.11.2022.	Date: 24/05/2024
36	Human Health Environment	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.	
		PPs Submission: Being Complied Workers working in high temperature zone are provided with proper PPEs and the duration of their shift in those areas will be max. 4 hrs. or less per day compared to the shift in other areas.	Date: 24/05/2024
37	Human Health Environment	Occupational health surveillance of the workers shall be done on a regular basis and records maintained	
		PPs Submission: Being Complied The occupational health surveillance of the workers is being done on a regular basis and records are maintained as per the Factories Act. To strengthen the Occupational Health Surveillance, a system has been made, in which, employee's Gate Pass is issued only after ensuring the initial medical check-up. The OHS Record is already attached.	Date: 24/05/2024
38	Corporate Environmental Responsibility	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, and as committee by the PP, the company shall adopt eleven villages namely Bargai, Dangarpara, Amba, Gokulpur, Kantapal, Keshpal, Ajabpur, Barkola, Wallipur, Mohanpur and Risha based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.	
		PPs Submission: Being Complied Noted and being complied in time bound manner. In last two financial year Rs. 1,51,17,813 is spent under CSR/CER head on various activities in nearby villages to address the issues raised during public hearing and socio-economic issues in the study area. Area of Work: • Financial support to School, • Drinking Water Facility, • Village Road Construction/ Repairing • Construction of community center, etc. • Development of play ground • Paver footpath construction near Bargai Health care • Construction / Repairing of community prayer center, etc. • Plantation at Road side. • Installation of Street Light.	Date: 24/05/2024
39	Risk Mitigation and Disaster Management	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake	

		holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	
		<p>PPs Submission: Complied The company have a well laid down environmental policy duly approved by the board of directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/ violation of the environmental/ forest/ wildlife norms/ conditions. The company shall have defined system of reporting infringements/ deviation/violation of the environmental/forest/ wildlife norms/ conditions and / or shareholders/stake holders. EHS policy is already provided to the MOEF&CC vide letter no- RASPL/KGP/2020-2021/01 dated 16.06.2020.</p>	Date: 24/05/2024
40	Risk Mitigation and Disaster Management	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.	
		<p>PPs Submission: Complied A separate Environmental cell both at project and company head quarter is in place.</p>	Date: 24/05/2024
41	MISCELLANEOUS	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently	
		<p>PPs Submission: Complied Advertisement for expansion environment clearance obtained under EIA notification, 2006 in favour of M/s Orissa Alloy Steel Pvt. Ltd., in two local newspapers that are widely circulated in the region are: 1. Aajkal dated 11.08.2022 (Bengali) 2. The Echo of India dated 11.08.2022 (English) The copy of the same is already submitted vide EC compliance vide letter no.- OASPL/ENV_COMP/DECEMBER 2022 dated 21.11.2022.</p>	Date: 24/05/2024
42	MISCELLANEOUS	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayat and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	
		<p>PPs Submission: Complied Copies of EC dated 10.08.2022 submitted to DM, Paschim Medinipur & Barkola Gram Panchayat vide letter dated 10.08.2022. EC copy also uploaded on the website of the company http://orissametaliks.com/qehs.html. The copy of intimation is already submitted vide EC compliance (Dec-2022) vide letter no.-OASPL/ENV_COMP/DECEMBER 2022 dated 21.11.2022.</p>	Date: 24/05/2024
43	MISCELLANEOUS	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis	
		<p>PPs Submission: Being Complied The environmental clearance and status of compliance of the stipulated environment clearance conditions, including results of monitored data have been uploaded on the website of the company - http://orissametaliks.com/qehs.html</p>	Date: 24/05/2024
44	MISCELLANEOUS	The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display	

		the same at a convenient location for disclosure to the public and put on the website of the company.	
		<p>PPs Submission: Being Complied The criteria pollutants level namely; PM10, PM2.5, SO2, NOX (ambient levels as well as stack emissions) is monitored by third party monitoring agency which is NABL accredited laboratory. Emission levels of pollutants of different units is displayed on board as per CPCB format outside the main gate of the plant for disclosure to the public and also uploaded on the website of the company - http://orissametaliks.com/qehs.html. Electronic display board is installed at plant main gate and online stack emission data and CAAQMS data is also being displayed.</p>	Date: 24/05/2024
45	MISCELLANEOUS	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	
		<p>PPs Submission: Being Complied This report is being submitted in compliance to this point. The last compliance report for the period April 2023 to September 2023 has been submitted to ministry vide letter no. OASPL/ENV_COMP/DEC2023 dated 29.11.2023, through email on 29.11.2023 and also uploaded on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal having compliance ID 26084634.</p>	Date: 24/05/2024
46	MISCELLANEOUS	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	
		<p>PPs Submission: Being Complied The environmental statement for financial year 2022-23 in Form-V is submitted to the West Bengal Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986 vide letter no. -OASPL/ENV_Statement/ 23-24 dated 21.09.2023 and same is uploaded on the website of the company.</p>	Date: 24/05/2024
47	MISCELLANEOUS	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	
		<p>PPs Submission: Being Complied The company is a private company and no finance is needed from outside. Land development work has been started after getting NOC from WBPCB and production operation started after obtaining valid CTO.</p>	Date: 24/05/2024
48	MISCELLANEOUS	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	
		<p>PPs Submission: Being Complied We are in the process of complying all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing. In last two financial year Rs. 1,51,17,813 is spent under CSR/CER head on various activities in nearby villages to address the issues raised during public hearing and socio-economic issues in the study area.</p>	Date: 24/05/2024
49	MISCELLANEOUS	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	

PPs Submission: Agreed to Comply Agreed and noted for compliance.		Date: 24/05/2024
50	MISCELLANEOUS	The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.
PPs Submission: Being Complied The Action Plan on the PH issues, and other commitments made in the EIA/EMP Report is furnished in Half yearly EC compliance report and is uploaded on the website of the company http://orissametaliks.com/qehs.html .		Date: 24/05/2024
51	MISCELLANEOUS	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.
PPs Submission: Being Complied Agreed and Noted.		Date: 24/05/2024
52	MISCELLANEOUS	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/ information/ monitoring reports.
PPs Submission: Being Complied Agreed and Noted.		Date: 24/05/2024
53	MISCELLANEOUS	The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.
PPs Submission: Agreed to Comply Agreed and Noted.		Date: 24/05/2024
54	MISCELLANEOUS	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.
PPs Submission: Agreed to Comply Agreed and Noted.		Date: 24/05/2024
55	MISCELLANEOUS	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
PPs Submission: Agreed to Comply		Date:

Agreed and Noted.		24/05/2024
56	MISCELLANEOUS	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 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.
PPs Submission: Agreed to Comply Agreed and Noted.		Date: 24/05/2024
57	MISCELLANEOUS	Sensitization of project proponents on implementation of ban on Single Use Plastic (SUP).
PPs Submission: Being Complied 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.		Date: 24/05/2024
58	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 04 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. Also 02 no sensor based AQMS installed. 01 no at plant main gate of associate company OMIPL & another near plant main gate of associate company (WCMIL). Online continuous emission Monitoring system (OCEMS) has been installed at all operational plants i.e. with stack connected with Ferro alloy plant, DRI plant, Coke Oven Plant, SMS Plant and Pellet plant as per CPCB guideline. The CEMS and CAAQMS are connected to WBPCB and CPCB online servers and calibrate from time to time according to equipment supplier specification. Ambient air monitored at the five locations viz., 1) Near Plant Main Gate, 2) Barkola Village, 3) Walipur Village, 4) Jharia Village & 5) Truck Parking Area by third party monitoring agency M/s Qualissure Laboratory Services, Kolkata which is NABL accredited laboratory. CAAQMS reports and AAQMS report carried by NABL accredited laboratory. Stack report data attached.		Date: 24/05/2024
59	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. In month of December 2023 a NABL accredited laboratory done the monitoring for 09 locations. Again M/s Green vision, Durgapur at the		Date: 24/05/2024

nine locations viz., 1) Ferro alloy plant, 2) Raw Material Yard, 3) Railway Siding, 4) DIP Plant Area, 5) SMS Area, 6) Coke Oven Plant, 7) Construction Area, 8) DRI & CPP Area, 9) Pellet Plant Area by third party monitoring agency M/s Qualissure Laboratory Services, Kolkata which is NABL accredited laboratory. Fugitive emission report FOR MONTH OF December 2023 & March 2024 are attached.

60

**AIR QUALITY
MONITORING AND
PRESERVATION**

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

PPs Submission: Being Complied
Process stack with DRI Plant, Ferro Plant, Pellet Plant, Coke Oven Plant, SMS Plant and DIP Finishing line has been installed as per CPCB guidelines for manual monitoring of emissions.

Date:
24/05/2024

Visit Remarks

Last Site Visit Report Date:

21/02/2022

Additional Remarks:

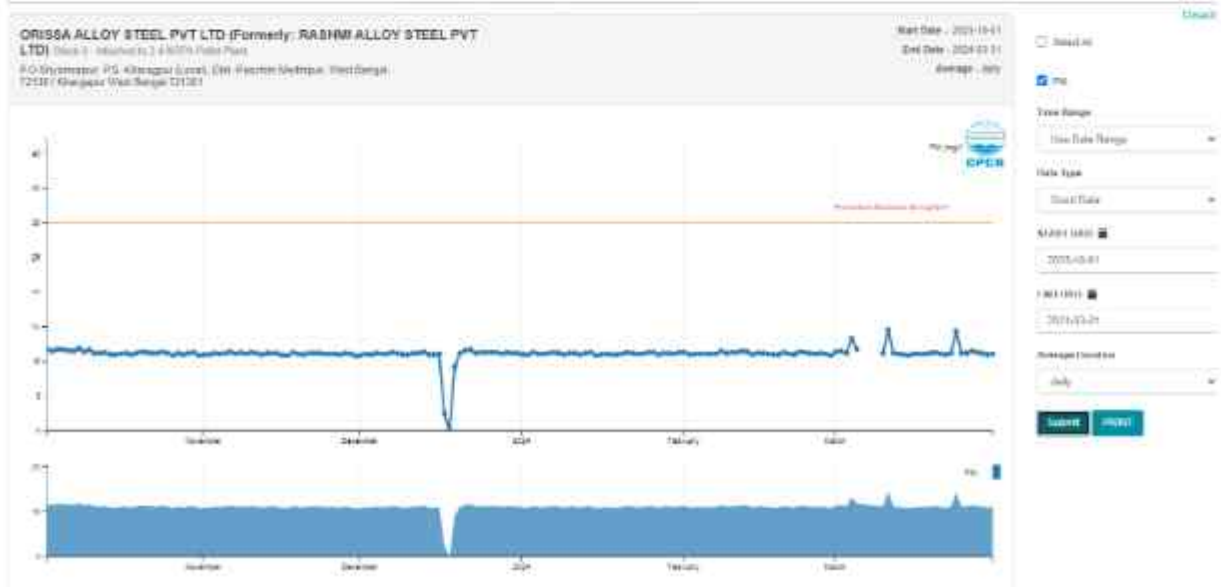
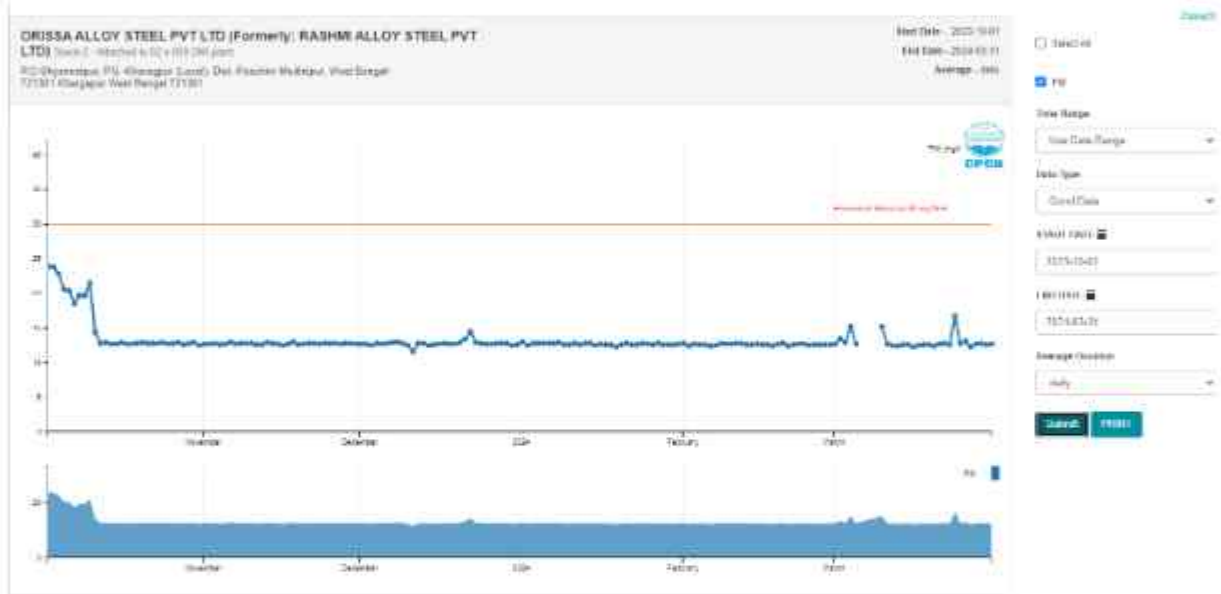
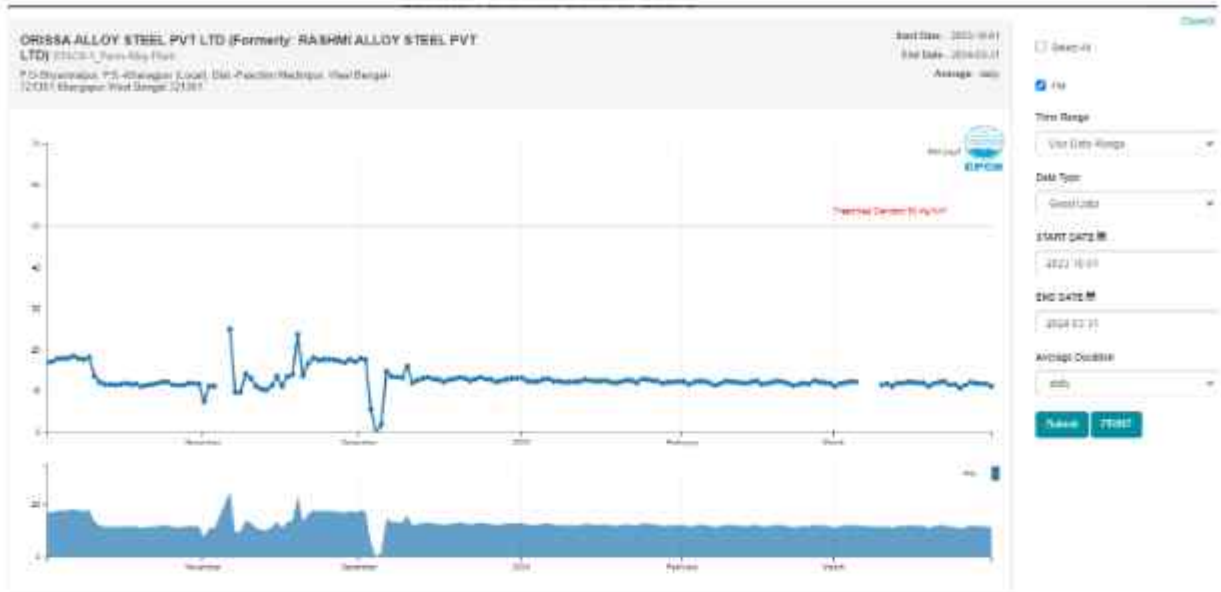
Scan Copy of Six Monthly EC compliance report with supporting Documents for the Period of October 2023 to March 2024 is uploaded for your kind consideration.

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

1 a)	Name of the Project :	M/s Orissa Alloy Steel Private Limited- Expansion of Integrated Steel Plant (1.2 to 2.0 Million TPA Finished Steel) with 270 MW Captive Power Plant					
1 b)	Environment Clearance Nos. :	<ul style="list-style-type: none"> • EC22A008WB114687 issued vide letter no. J-11011/169/2017-IA. II (I) dated 10.08.2022. • Environmental Clearance under the provisions of para 7(ii) of EIA Notification 2006 issued vide F. No. IA-J-11011/169/2017-IA-III(I) dated 19.03.2021 • Integrated steel plant (1.2 MTPA) with 225 MW CPP issued vide F. No. IA-J-11011/169/2017-IA-III(I) dated 03.04.2019 to M/s Orissa Metalliks Private Limited 					
2	Location, Block/ Sub. Divn. / Dist/ State:	Mouja- Nandarchak (J.L NO.-124),Bargai(J.L NO. 197), & Kanjarichak (J.L No. 125) at Village - Gokulpur, P.O. – Shyamraipur, P.S. – Kharagpur(L), District - Paschim Medinipur, West Bengal					
3	Address for communication :	1, Grastin Place, Orbit House, 3 rd Floor, Room No - 3B Kolkata – 700 001(WB)					
4	Existing vegetation in the area/ region		Vacant Land				
	a	Species (trees/shrubs/grasses/climbers)					
	b	Major prevalent species of each type					
5	Land coverage by the project						
	a	Total area under the project	145.69 hectares				
	b	Area covered for basic infrastructure (roads/building/factory etc.)	Project is still in construction phase				
6	Details about natural vegetation		100 % Vacant Land				
	a	Name and number of tree/ species felled	Not Applicable				
	b	Name and number of plant species still available in the area	Not Applicable				
	c	By protecting the area will indigenous stock come up	Not Applicable				
	d	Extent of greenbelt developed	48.60 hectares (33.35%)				
7	Plantations required to be carried out as per						
	a	Conditions of Environmental Clearance in ha./ Nos.	48.07 hectares (33.0%)				
	b	Conditions for Forest act (c) clearance in ha./ Nos.	Not Applicable				
	c	Voluntarily in no. for green belt development in nearby area in Financial year 2023-24	8,000 Nos.				
8	Details of plantations						
	b	Survival of plantation	2019-20	2020-21	2021-22	2022-23	2023-24
		- Total Seedling/ Plantation (No.)	30,000	40,000	40,000	18,410	10,721
		- Survival Trees (No) as on date from date of EC	25,200	33,600	36,000	16,753	9,956
		- Survival	84%	84%	90%	91%	92.8%
		- Total Survival trees (Numbers)	1,21,509= 1,17,509 (inside plant) + 4000 (along NH & service road)				
	- Location	Coal unloading, stacking and handling area, Guard Pond, Administrative & Canteen Area and Product Storage Yard, Car & Truck Parking area, Inside the					

		plant boundary wall, slag/ coal crushing area, Near oil tank, Water reservoir, Near, Water reservoir, Tailing Pond, Plant internal road, Gap filling			
9	Agency carrying out plantation and maintenance	Our own horticulture department & third party			
10	Year wise Plantation Programme for expansion project <i>(With the expansion proposal the green belt will be increased from 43.91 hectare to 48.07 hectare)</i>	S. No.	Year	Tree/ Sapling (Nos.)	Area to be covered
		1	2024-25 (April to September)	Gap Filling	---
		Location: Guard Pond, Administrative & Canteen Area and Product Storage Yard, Car & Truck Parking area, Inside the plant boundary wall, slag/ coal crushing area, Water reservoir, , Gap filling.			

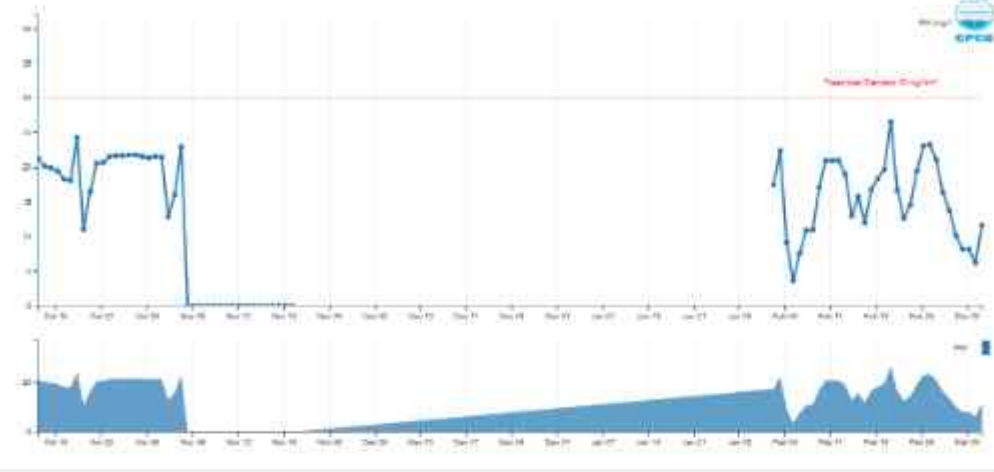
Online Continuous Emission Monitoring System



ORISSA ALLOY STEEL PVT LTD (Formerly: RASHMI ALLOY STEEL PVT LTD)

PO Shyamnagar, PO - Khargapur (East), Dist - Paschim Medinipur, West Bengal
721307 Khargapur West Bengal 721307

Start Date : 2023-10-01
End Date : 2024-02-28
Average : 1000



Select all

All

Time Range

Use Date Range

Date Type

Fixed Date

START DATE

2023-10-01

END DATE

2024-02-28

Average Duration

daily

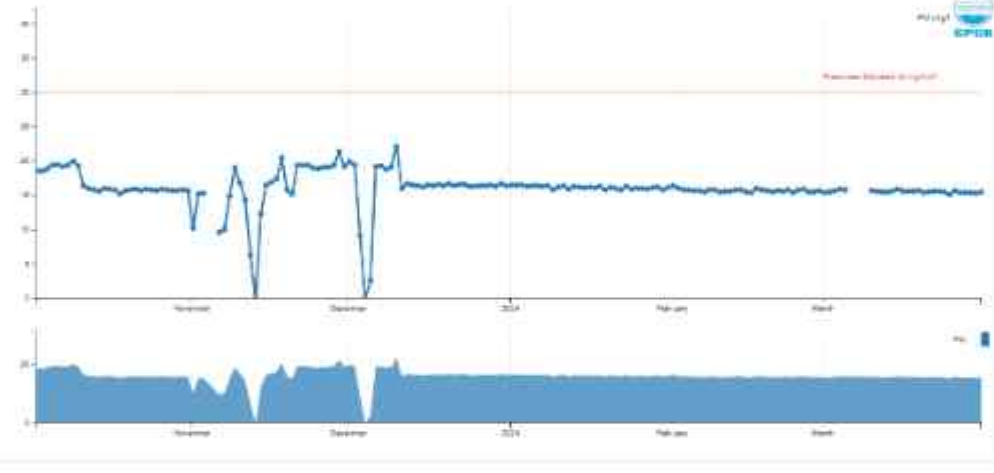
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ORISSA ALLOY STEEL PVT LTD (Formerly: RASHMI ALLOY STEEL PVT LTD)

PO Shyamnagar, PO - Khargapur (East), Dist - Paschim Medinipur, West Bengal
721307 Khargapur West Bengal 721307

Start Date : 2023-10-01
End Date : 2024-02-28
Average : 1000



Select all

All

Time Range

Use Date Range

Date Type

Fixed Date

START DATE

2023-10-01

END DATE

2024-02-28

Average Duration

daily

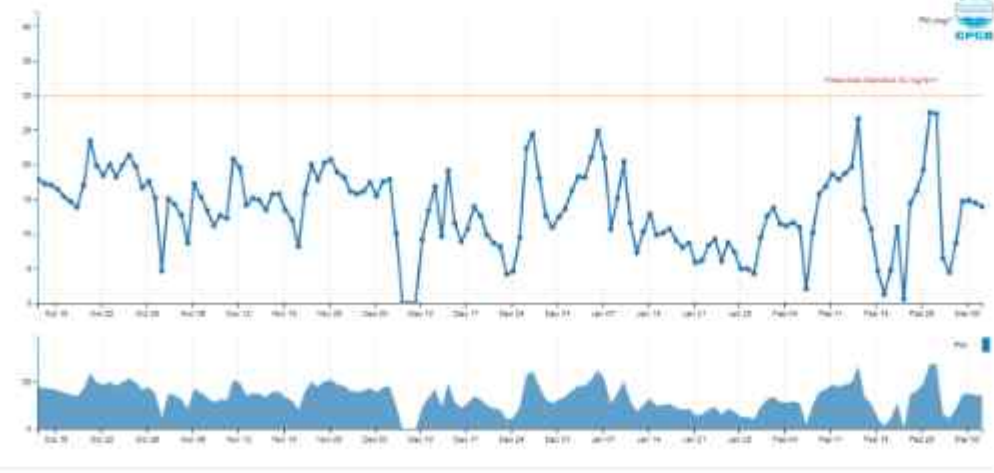
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ORISSA ALLOY STEEL PVT LTD (Formerly: RASHMI ALLOY STEEL PVT LTD)

PO Shyamnagar, PO - Khargapur (East), Dist - Paschim Medinipur, West Bengal
721307 Khargapur West Bengal 721307

Start Date : 2023-10-01
End Date : 2024-02-28
Average : 1000



Select all

All

Time Range

Use Date Range

Date Type

Fixed Date

START DATE

2023-10-01

END DATE

2024-02-28

Average Duration

daily

Submit Filter

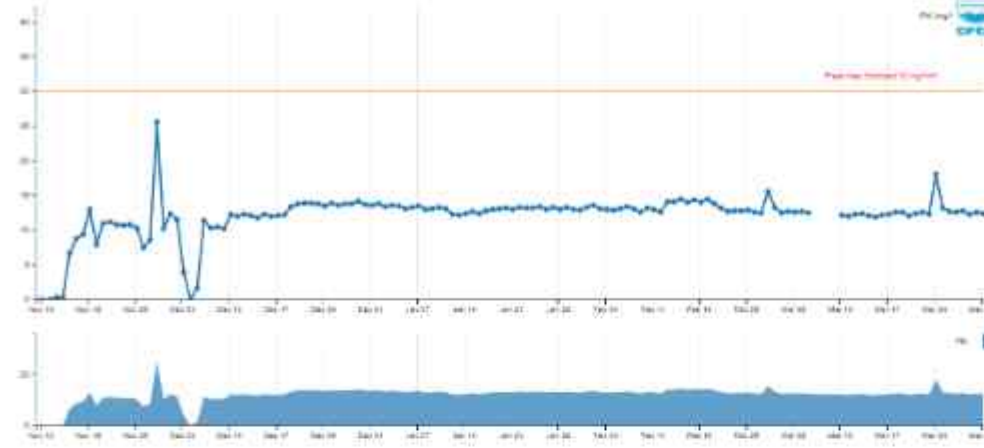
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ORISSA ALLOY STEEL PVT LTD (Formerly: RASHMI ALLOY STEEL PVT LTD)

PC Overhead PS (Mangar) Local, 2nd Phase, Malabar, West Bengal, 72101 (Bhagpur West Bengal 72101)

Start Date - 2023-10-01
End Date - 2024-01-31
Average - 44%

Close



Select All

All

Time Range
Use Date Range

Units Type
Grid Data

START DATE
2023-10-01

END DATE
2024-01-31

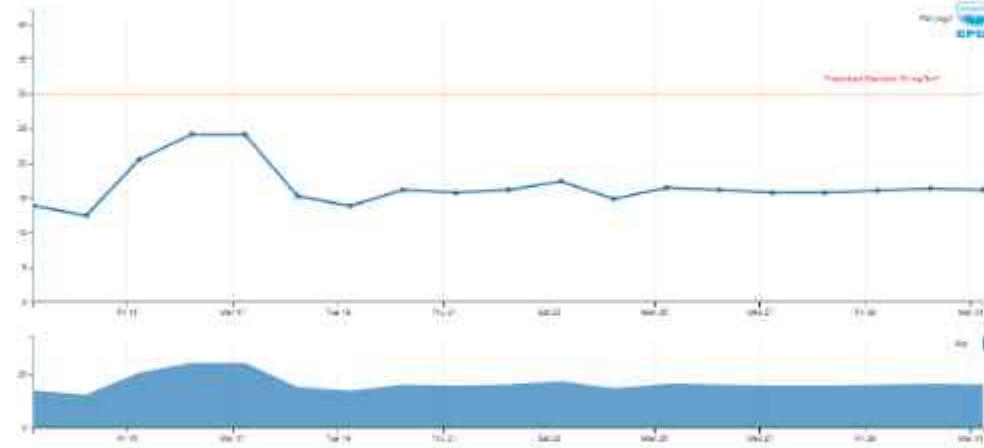
Average Duration
Daily

ORISSA ALLOY STEEL PVT LTD (Formerly: RASHMI ALLOY STEEL PVT LTD)

PC Overhead PS (Mangar) Local, 2nd Phase, Malabar, West Bengal, 72101 (Bhagpur West Bengal 72101)

Start Date - 2023-10-01
End Date - 2024-01-31
Average - 50%

Close



Select All

All

Time Range
Use Date Range

Units Type
Grid Data

START DATE
2023-10-01

END DATE
2024-01-31

Average Duration
Daily



TEST REPORT

Name & Address of the Customer: M/s. Orissa Alloy Steel Pvt Limited. Address: Vill- Gokulpur, P.O- Shyamraipur, P.S- Kharagpur (L), Paschim Medinipur- 721301, West Bengal.	Report No.	: QLS/P-29/23-24/C/22
	Date	: 02.02.2024
	Sample No.	: QLS/P-29/23-24/22
	Sample Description	: Stack Flue Gas
	Date of Performance	: 25.01.2024-31.01.2024
	Sample Mark	: Rotary Kiln -3 & 4
	Ref No. Date	: Verbal Confirmation

Analysis Result

Date & Time of Sampling : 24.01.2024 at 13:10 hrs. Sampling done by : S.Poddar	Sampling Procedures : EPA/IS		
A : General Information of Stack:			
1 Stack connected to	: Rotary Kiln No-1 & 2(600 TPD x 2), attached to common stack through WHRB.		
2 Emission due to	: Oxidation of Coal & Reduction of Fe Ore		
3 Material of construction of Stack	: RCC		
4 Shape of Stack	: Circular		
5 Whether stack is provided with permanent platform	: Yes		
6 Generation Capacity	: Rated -600 TPD X 2 Nos.(Both was in Operation)		
B : Physical Characteristic of Stack:			
1 Height of Stack from ground level	: 75.0 m		
2 Diameter of Stack at bottom	: 7.0 m		
3 Diameter of Stack at sampling point	: 4.5 m		
4 Height of the sampling point from ground level	: 56 m		
5 Area of Stack	: 15.90 m ²		
C : Analysis/Characteristic of Stack:			
1 Fuel used : Coal	2. Fuel consumption : 21.8 TPH (Each Kiln)		
D : Results of Sampling & Analysis of gaseous Emission:			
	RESULT	METHOD	LIMIT
1 Temperature of emission (°C)	: 165	EPA Part 2	---
2 Barometric pressure (mm of Hg)	: 757	EPA Part 2	---
3 Velocity of gas (m/sec)	: 10.4	EPA Part 2	---
4 Quantity of gas flow (Nm ³ /hr)	: 403880	EPA Part 2	---
5 Concentration of Carbon monoxide(%v/v)	: <0.2	IS:13270-1992, Reaf : 2017	---
6 Concentration of Carbon dioxide(%v/v)	: 9.8	IS:13270-1992, Reaf : 2017	---
7 Concentration of Sulphur dioxide (mg/Nm ³)	: 121.7	EPA Part-6	---
8 Concentration of Oxides of Nitrogen (mg/Nm ³)	: 51.2	EPA Part-7	---
9 Concentration of Particulate Matters (mg/Nm ³)	: 8.7 at 12% CO ₂	EPA Part 5	100
E : Pollution Control Device :			
Details of pollution control devices attached with the stack		: ESP	
F : Remarks: Nil			

Report Prepared By:



for Qualissure Laboratory Services
Reviewed & Authorized By

Benimadhab Gorai, Chemist
(Authorized Signatory)

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

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- 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.



WEST BENGAL POLLUTION CONTROL BOARD

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

Analysis Report of Gaseous Emission

Sample ID : 050120240371

1. Name of Industry	: M/s. Orissa Alloy Steel Pvt. Ltd.
2. Address	: Vill- Gokulpur, P.O.-Shyamraipur, P.S.-Kharagpur (Local), Dist-Paschim Medinipur, Pin-721301
3. Category & Type	: Red / Steel Plant (Sponge Div.)
4. Sampling Date	: 04/01/2024
5. Sampled collected by	: S. Mukherjee (AEE), HRO
6. Thimble Number	: 718
7. Name of WBPCB Recognized Laboratory	: M/s. Enviro Cell Laboratory
8. Duration of Sampling	: 25 min
9. Height of Stack from ground (m)	: 75.0
10. Cross section of stack at sampling point (m ²)	: 15.9 m
11. Stack connected to	: Rotary Kiln No.-1 & 2 (600 TPD x 2) attached with common stack through WHRB (both Kiln were in operation)
12. Emission source (Furnace / Boiler)	: Oxidation of Coal Reduction of Iron Ore
13. Average operational hours of boiler/furnace (per month)	: 720 hrs./month
14. APC System (if any)	: Individual ESP
15. Working load of source (MT/hr.)	: 600 TPD (each Kiln)
16. Fuel used	: Coal
17. Rated Fuel consumption (Kg or L /hr.)	: 21.8 TPH (each Kiln)
18. Working Fuel consumption (Kg or L /hr.)	: 21.8 TPH (each Kiln)
19. Nature of Furnace / Boiler	: Rotary Kiln No.-1 & 2
20. Flue Gas Temp (°C)	: 175.0
21. Flue gas velocity (m/sec)	: 12.69
22. Volume of Flue gas drawn in lit (m ³)	: 1.0
23. Corrected flue gas volume (Nm ³)	: 0.9744
24. Percentage CO ₂ and or O ₂	: CO ₂ -10.8% & O ₂ -8.8%
25. To be compensated at (% if required)	: At 12% CO ₂
26. Initial weight of Thimble (g)	: 1.4632
27. Final weight of Thimble (g)	: 1.4802
28. Weight of Particulate Matter (mg)	: 17.00
29. Particulate Matter (mg/Nm ³)	: 19.39 at 12% CO ₂
30. Barometric Pressure Head in mm of Hg	: 758 mm of Hg
31. Diameter of the nozzle (mm)	: 9.53 mm
32. Others	: -

Date of Reporting : 09/01/2024

Scientist

Senior Scientist

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

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



TEST REPORT

Name & Address of the Customer: M/s. Orissa Alloy Steel Pvt Limited. Address: Vill- Gokulpur, P.O- Shyamraipur, P.S- Kharagpur (L), Paschim Medinipur- 721301, West Bengal.	Report No.	: QLS/P-29/23-24/C/21
	Date	: 02.02.2024
	Sample No.	: QLS/P-29/23-24/21
	Sample Description	: Stack Flue Gas
	Date of Performance	: 25.01.2024-31.01.2024
	Sample Mark	: Rotary Kiln -3 & 4
	Ref No. Date	: Verbal Confirmation

Analysis Result

Date & Time of Sampling : 24.01.2024 at 13:10 hrs. Sampling done by : S.Poddar	Sampling Procedures : EPA/IS		
A : General Information of Stack:			
1 Stack connected to	: Rotary KilnNo-3 &4 (600 TPD x 2), attached to common stack through WHRB.		
2 Emission due to	: Oxidation of Coal & Reduction of Fe Ore		
3 Material of construction of Stack	: RCC		
4 Shape of Stack	: Circular		
5 Whether stack is provided with permanent platform	: Yes		
6 Generation Capacity	: Rated -600 TPD X 2 Nos.(Both was in Operation)		
B : Physical Characteristic of Stack:			
1 Height of Stack from ground level	: 90.0 m		
2 Diameter of Stack at bottom	: 9.0 m		
3 Diameter of Stack at sampling point	: 6.0 m		
4 Height of the sampling point from ground level	: 72 m		
5 Area of Stack	: 28.28 m ²		
C : Analysis/Characteristic of Stack:			
1 Fuel used : Coal	2. Fuel consumption : 22 TPH (Each Kiln)		
D : Results of Sampling & Analysis of gaseous Emission:			
	RESULT	METHOD	LIMIT
1 Temperature of emission (°C)	: 155	EPA Part 2	---
2 Barometric pressure (mm of Hg)	: 757	EPA Part 2	---
3 Velocity of gas (m/sec)	: 9.81	EPA Part 2	---
4 Quantity of gas flow (Nm ³ /hr)	: 693164	EPA Part 2	---
5 Concentration of Carbon monoxide(%v/v)	: <0.2	IS:13270-1992, Reaf : 2017	---
6 Concentration of Carbon dioxide(%v/v)	: 10.4	IS:13270-1992, Reaf : 2017	---
7 Concentration of Sulphur dioxide (mg/Nm ³)	: 148.4	EPA Part-6	---
8 Concentration of Oxides of Nitrogen (mg/Nm ³)	: 65.2	EPA Part-7	---
9 Concentration of Particulate Matters (mg/Nm ³)	: 5.8 at 12% CO ₂	EPA Part 5	100
E : Pollution Control Device :			
Details of pollution control devices attached with the stack : ESP			
F : Remarks: Nil			






Report Prepared By:

for Qualissure Laboratory Services
Reviewed & Authorized By

Benimadhab Goral, Chemist
(Authorized Signatory)

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






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SL. NO.	DEPARTMENT / WORK	NAME OF WORKER	SEX	AGE (on last birthday)	OCCUPATION			EXAMINATION OF EYE SIGHT		SIGNATURE OF OPHTHALMOLOGIST	REMARKS
					Nature	Date of Employment	Date	Result			
21	DRP ELECTRICAL	BASANTA KUMAR 60680	M	31Y 12-02-1991	E/P	07-04-2024	26-10-23	BE 6/6		FIT	
22	DRP ENGINEER	SITANDRA KUMAR 60681	M	33Y 15-07-1988	E/P	07-04-2024	26-10-23	BE 6/6		FIT	
23	DRP FITTER	DEEPAK KUMAR 60682	M	25Y 02-01-1999	MECHANICAL	07-04-2024	26-10-23	BE 6/6		FIT	
24	DRP JR. ENGINEER	SHYAMDEEP GHOSH 60683	M	25Y 25-02-1999	E/P	09-04-2024	26-10-23	BE 6/6		FIT	
25	DRP WELDER	BISWANATH BAGI 60685	M	31Y 04-03-1994	MECHANICAL	08-04-2024	26-10-23	BE 6/6		FIT	

Dr.
 Regd. No. ... **Dr. Sanjay Das**
 MBBS - DLO
 (Ophthalmologist)
 Rgno - 42401
 Ophthalmologist Sign. of Seal

SL NO.	DEPARTMENT WORK	NAME OF WORKER	SEX	AGE (on last birthday)	OCCUPATION			EXAMINATION OF EYE SIGHT		SIGNATURE OF OPHTHALMOLOGIST	REMARKS
					Nature	Date of Employment	Date	Result			
1	CPP (MECH)	SAGAR PAL 60649	M	29Y 16-06-95	GET.	01-04-2021	22-10-22	BE < 6/6	SAS	FIT	
2.	CPP (DESK ENGIN)	PRAVAT KUMAR MISHRA 60652	M	28Y 12-04-1994	OPERATOR	01-04-2021	22-10-22	BE < 6/6	SAS	FIT	
3.	DRI FOURMAN	MANAGADIND SAHOO 60654	M	38Y 26-11-1994	MECH	01-04-2022	22-10-22	BE < 6/6	SAS	FIT	
4.	DRI SR. CHEMIST	CHANDI CHARAN - PATRA 60655	M	34Y 23-4-1998	QC	01-04-2021	22-10-22	BE < 6/6	SAS	FIT	
5.	DRI ENGINEER	MONOJ KUMAR KHALLAR	M	40Y 01-01-1982	E/I	02-04-21	22-10-22	BE < 6/6	SAS	FIT	

Dr. *Sanjay Das*
 Regd. M.B.B.S. - DLO
 (Ophthalmologist)
 Ophthalmologist Sing. of Seal

SL NO.	DEPARTMENT/WORK	NAME OF WORKER	SEX	AGE (on last birthday)	OCCUPATION			EXAMINATION OF EYE SIGHT		SIGNATURE OF OPHTHALMOLOGIST	REMARKS
					Nature	Date of Employment	Date	Result			
26	PELIET ELECTRICAL	LOKNATH DEHARI 60686	M	32Y/ 16-06-1999	TECH	08-04-2021	05-04-23	BE < 6/6		FIT	
27	ACCOUNT JR. OFFICER	SOUVIK MUKHARJEE 60687	M	27Y/ 16-04-1996	ACCOUNT	09-04-2021	05-04-23	BE < 6/6		FIT	
28	ASST FITTER	SK. NASIRUDDIN 60688	M	23Y 04-12-1996	MECHANICAL	09-04-2021	05-04-23	BE < 6/6		FIT	
29	DR1 ELECTRICAL	PRAKES CHANDRA BARIK 60689	M	32Y/ 10-06-1989	E/I	09-04-2021	05-04-23	BE < 6/6		FIT	
30	CPP ENGINEER	SOURAV GOSWAMI 60690	M	32Y/ 20-02-1992	INSTRUMENTAL ENG	09-04-2021	05-04-23	BE < 6/6		FIT	

Dr. 
 Regd. no. MBRS-2110-1504123
 (Ophthalmologist)
 Rgno - 42401
 Ophthalmologist Sing. of Seal

SL. NO.	DEPARTMENT / WORK	NAME OF WORKER	SEX	AGE (on last birthday)	OCCUPATION		EXAMINATION OF EYE SIGHT		SIGNATURE OF OPHTHALMOLOGIST	REMARKS
					Nature	Date of Employment	Date	Result		
46	CPP OPERATION	DHANNANJOY ROY 60757	M	25Y/ 10-07-1992	E/I	06-01-2021	05-04-23	BE L6/6	[Signature]	FIT
47	DR1 ENGINEER	ANUP GHOSH 60764	M	27Y/ 05-08-1992	OPERATOR	28-09-2021	05-04-23	BE L6/6	[Signature]	FIT
48	DR1 TRINNE	SUBHAJIT DASH 60765	M	22Y/ 26-09-1999	QC	27-09-2021	05-04-23	BE L6/6	[Signature]	FIT
49	DR1 TRINNE	SUKANAT NAYAK 60767	M	22Y/ 10-07-1992	QC	27-09-2021	05-04-23	BE L6/6	[Signature]	FIT
50	CPP DES ENGINEER	PHBIR KUMAR MATHANTI 60769	M	27Y/ 20-06-1992	OPERATION	27-09-2021	05-04-23	BE L6/6	[Signature]	FIT

Dr. *Dr. Sanjay Das*
 Regd. No. *MBBS-DIG 0504123*
 (Ophthalmologist)
 RGN-42401
 Ophthalmologist Sign. of Seal

SL. NO.	DEPARTMENT / WORK	NAME OF WORKER	SEX	AGE (on last birthday)	OCCUPATION		EXAMINATION OF EYE SIGHT		SIGNATURE OF OPHTHALMOLOGIST	REMARKS
					Nature	Date of Employment	Date	Result		
6.	OPP. ITT	Suman Mondal. 60657.	M	24y/07 09.08.98	Software Engg.	08-01-2021	13.09.2022	BE < 6/6	SAS	Ait.
7.	OPP. AITM.	Airabandhu Samanta. 60659	M	43y/07 01.01.80	Medicinal	08-01-2021	13.09.2022	BE < 6/6	SAS	Ait.
8.	OPP. Electrical.	Rajesh Kumar Baran. 60662	M	35y/07 11.02.97.	Electrical	08-01-2021	13.09.2022	BE < 6/6	SAS	Ait.
9.	OPP. AITM	Sand Nandoul Alam. 60663.	M.	48y 16.02.80	Medicinal.	08-01-2021	13.09.2022	BE < 6/6	SAS	Ait.
10.	OPP. Technical	Enamoli Karbis 60664.	M.	35y 06.06.89	E/I	08-01-2021	13.09.2022	BE < 6/6	SAS	Ait.

Dr. 
 Dr. Sanjay Das
 Regd. NMBBS (Ophthalmologist)
 Rgno - 42401

.....
 Ophthalmologist Sign. of Seal

HEALTH

1. Serial No. in the Register of adult workers : 27114

2. Name of worker : (Government) Male

3. Sex : Male 4. Date of Birth : 24-02-1924

(Prescribed under Rules 63 & 94 of The West Bengal Factories Act, 1948)

REGISTER

as amended vide Notification No. 13835M-13843M dated 27th Nov. 1991

1	2	3	4	5	6	7	8	9	10
Department where work	Name of Industrial Process	Designation of worker	Name of job or occupation	Age of worker at the commencement of his employment	Date of admission to employment	Date of leaving employment	Reason for discharge or transfer to other work	Sign and signature of worker	
27114			Production		24-02-1924				

Administration and the worker's record			Medical record of worker				Signature and date of the Medical Officer in charge	
10	11	12	13	14	15	16	17	18
Name of firm & Health Board	Health Examination	Period of employment with firm	Height in feet and inches	Weight in lbs and oz	Temperature in degrees Fahrenheit	Pulse per minute	Blood pressure	Remarks
27114	Fit							

Signature and date of the
Medical Officer
in charge
Dr. N. S. SARKAR
11/11/17
11, 11, 11

HEALTH

1. Serial No. in the Register of milk workers *2274*

2. Name of worker *Arjun Ashwin*

3. Sex *Male*

4. Date of birth *20-04-1978*

REGISTER

as amended with Notification No. 105/LM-III/91 dated 27th Nov. 1991

1	2	3	4	5	6	7	8	9	10
Designation of worker	Name of institution	Designation of employer	Name of all or exclusive	Date certificate granted by the authority	Date of expiry	Date of renewal	Reason for non-renewal	Remarks	Signature and date of the authority
<i>NA - DC</i>			<i>S. Chavhan</i>			<i>20-04-78</i>			

10	11	12	13	14	15	16
Name of worker	Designation	Designation of employer	Reason for non-renewal	Date of expiry	Date of renewal	Signature and date of the authority
<i>BJ - 1207/20 mm/24</i>	<i>HT</i>					<i>DR. M. N. Kulkarni</i> <i>12/12/78</i>
<i>KAB - 1886. 04-75-22</i>						<i>M. S. Chavhan</i> <i>12/12/78</i>
<i>HT 1207/20 - 520711</i>						<i>M. S. Chavhan</i> <i>12/12/78</i>
<i>PBE - 480414</i>						<i>M. S. Chavhan</i> <i>12/12/78</i>
<i>AG - 4712</i>						<i>M. S. Chavhan</i> <i>12/12/78</i>
<i>AG - 4712</i>						<i>M. S. Chavhan</i> <i>12/12/78</i>
<i>Grand - 04-78</i>						<i>M. S. Chavhan</i> <i>12/12/78</i>

HEALTH

Prescribed under Rules 63 & 64 of The West Bengal Factories Act, 1948

REGISTER

as amended vide Notification No. 103(LN-III-47) dated 27th Nov. 1991

1. Serial No. of the Engineer of such works: 60882
2. Name of works: Andhra Fab
3. Sex: Male
4. Date of Birth: 02-03-1948

Department/ Name of the works	Name of Manager/ person	Designation of person	Name of an officer	Has necessary facilities to be provided to be equipped to	Date of starting of work	Date of leaving of work	Reason for discharge if any	Sign and writing (dated stamp) of person
<i>(This table area is mostly blank in the provided image)</i>								

Name of firm & works	Date of start	Date of leaving of work	Reason for discharge	Date of leaving of work	Date of leaving of work	Signature and date of the Inspector of Factories
<u>BP - 150/20 brick</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
<u>Andhra Fab - NR - 60882</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
<u>APT HEPR - 520 UH</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
<u>PBB - 500 UH</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
<u>AE - 22 - 22 - 185 - 185 - 185 - 185</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
<u>And - 1 + 1 + 1</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
<p style="text-align: right;">Signature and date of the Inspector of Factories <u>DR. N. SANKAR</u> <u>INSPECTOR OF FACTORIES</u> <u>ANDHRA PRADESH</u></p>						

1. Serial No. in the Register of adult workers 12477

2. Name of worker: *Kamraj K. Chatterjee*

(Prescribed under Rules 63 & 64 of The West Bengal Factories Act, 1948)

3. Sex: *Male* 4. Date of Birth: *04-12-1947*

1	2	3	4	5	6	7	Medical	
							8	9
<i>01/01/48</i>			<i>10/12/48</i>		<i>04-12-50</i>			

REGISTER

as amended vide Notification No. FBLA/WR/01 dated 27th Nov. 1991

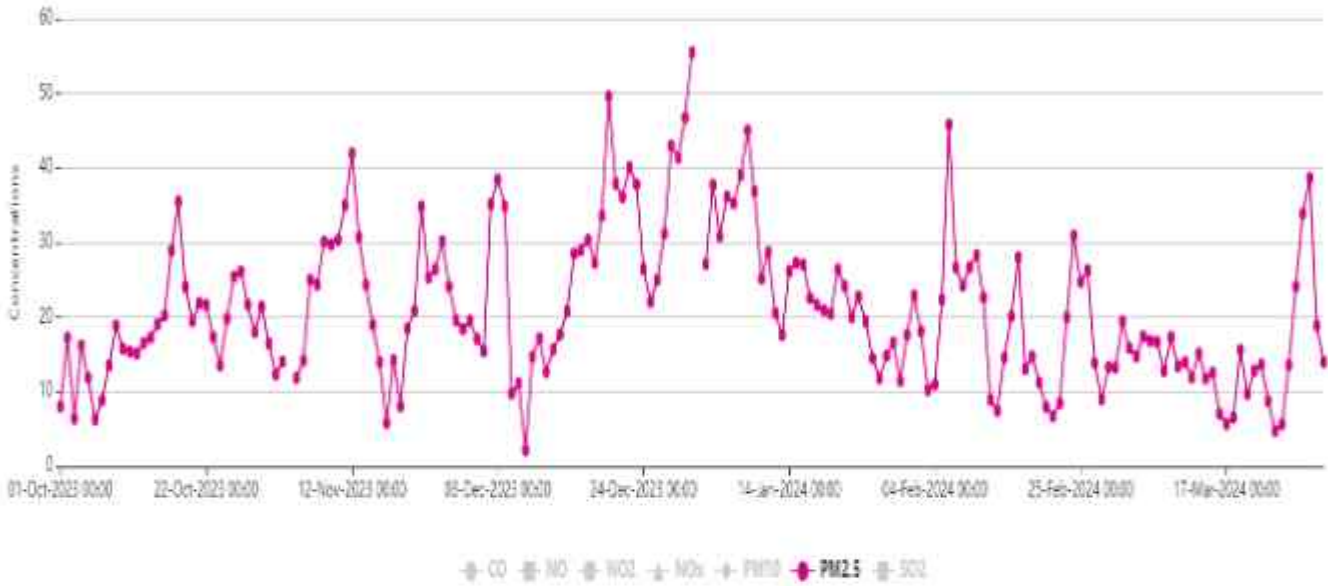
10	11	12	13	14	15	16	17
<i>24-01/50</i>	<i>P/W</i>						

Signature and Date of the
 Doctor in Charge
Dr. K. N. Nayak
 Medical Officer
 ES & D Cell, WBCEP
 29th Nov. 2000

CAAQMS DATA (OCOPER 2023 to MARCH 2024)

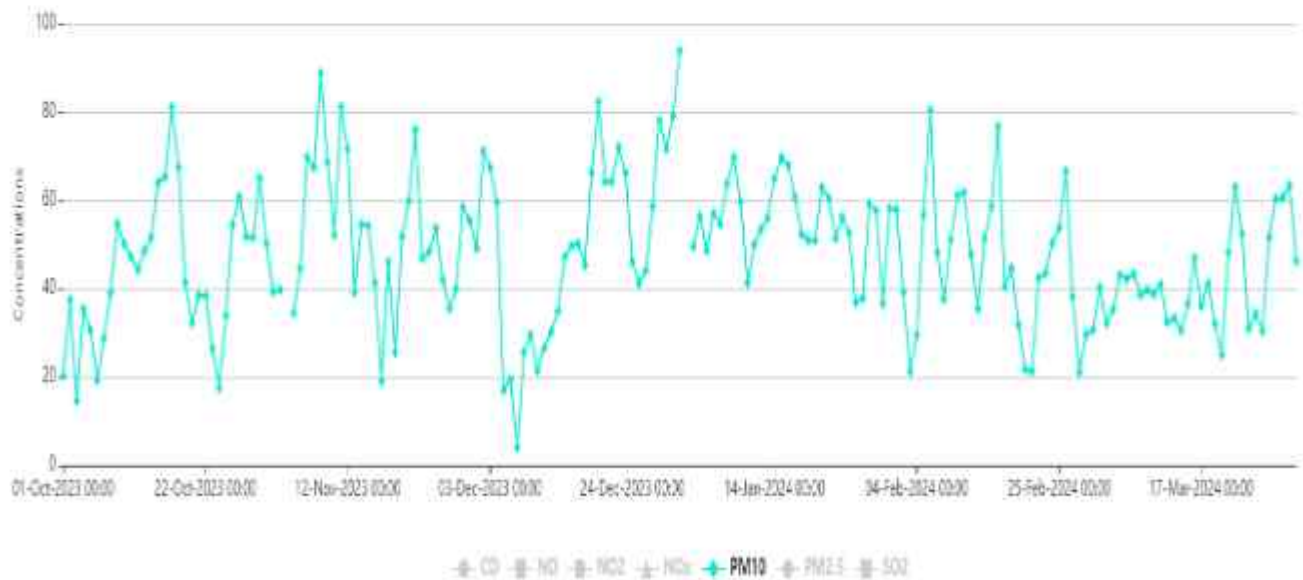
LOCATION : KALYANPUR VILLAGE

Parameters : PM 2.5



LOCATION : KALYANPUR VILLAGE

Parameters : PM 10



LOCATION : KALYANPUR VILLAGE

Parameters : SO2



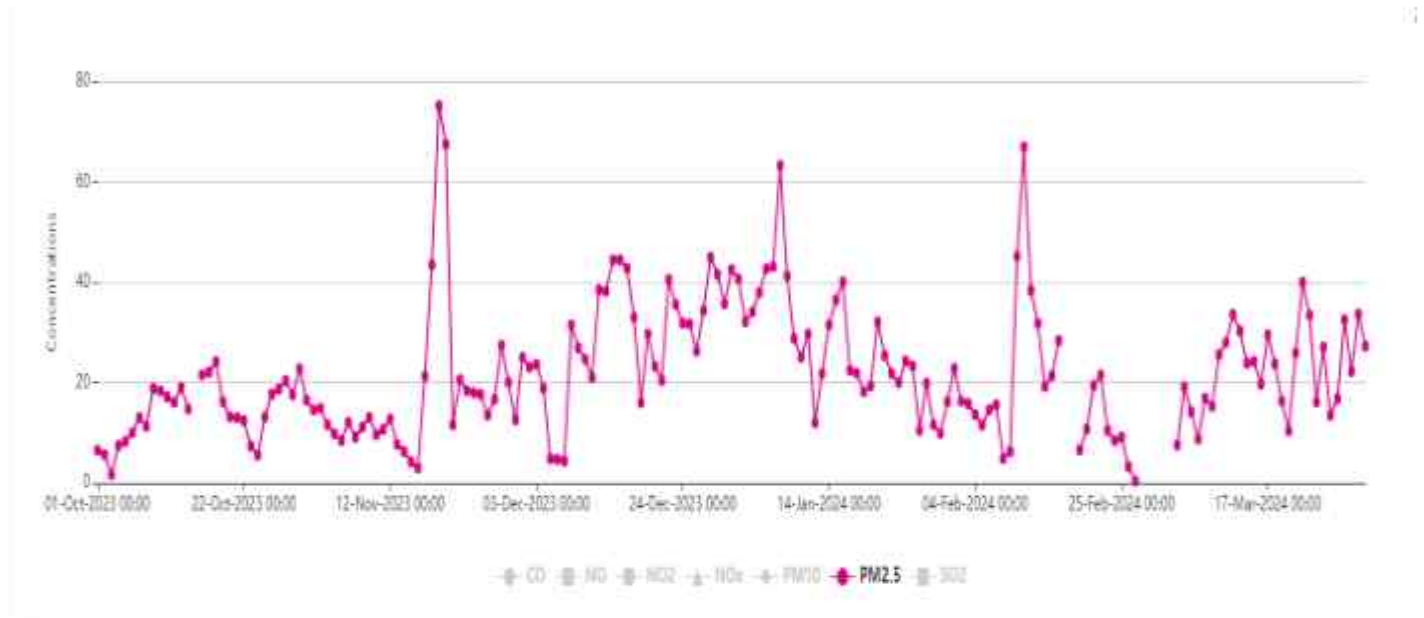
LOCATION : KALYANPUR VILLAGE

Parameters : NOx



LOCATION : RAJOGGRAM

Parameters : PM2.5



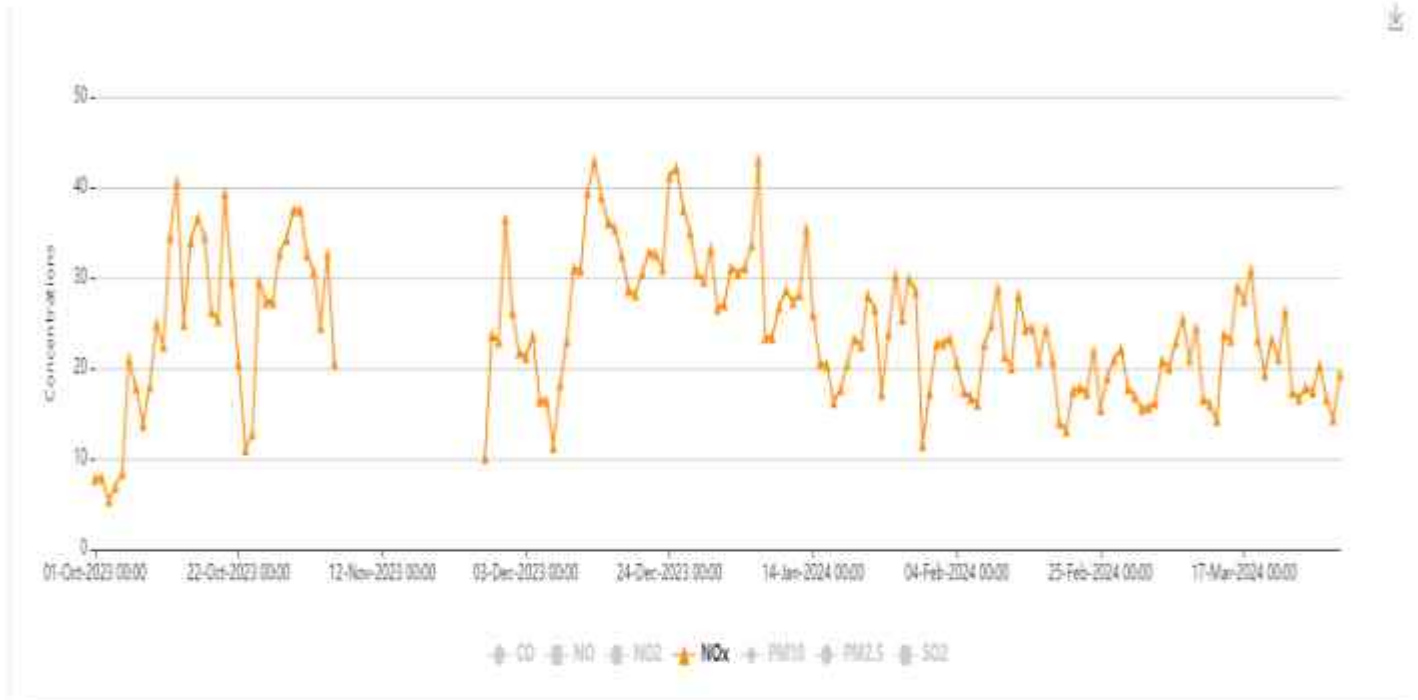
LOCATION : RAJOGGRAM

Parameters : SO2



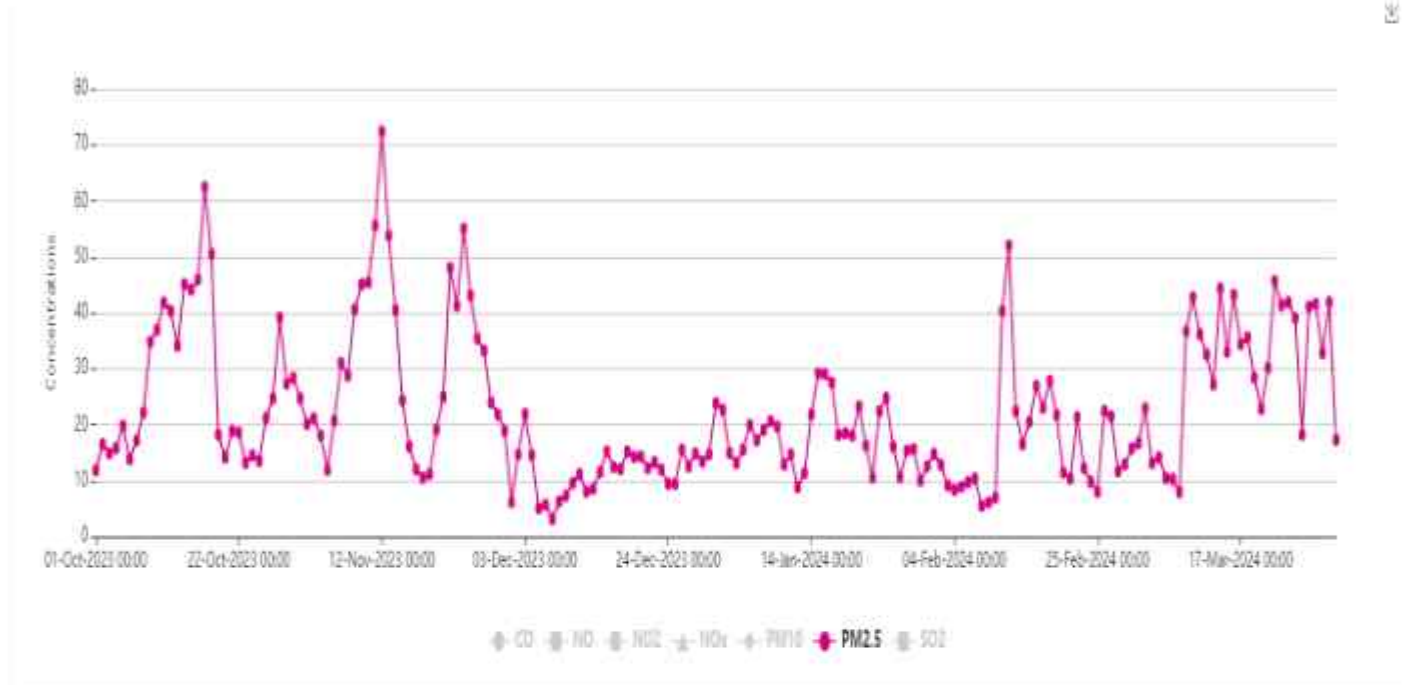
LOCATION : RAJOGGRAM

Parameters : NOx



LOCATION : BARKOLA

Parameters : PM2.5



LOCATION : BARKOLA

Parameters : SO2



LOCATION : BARKOLA

Parameters : NOx



LOCATION : BARKOLA

Parameters : CO



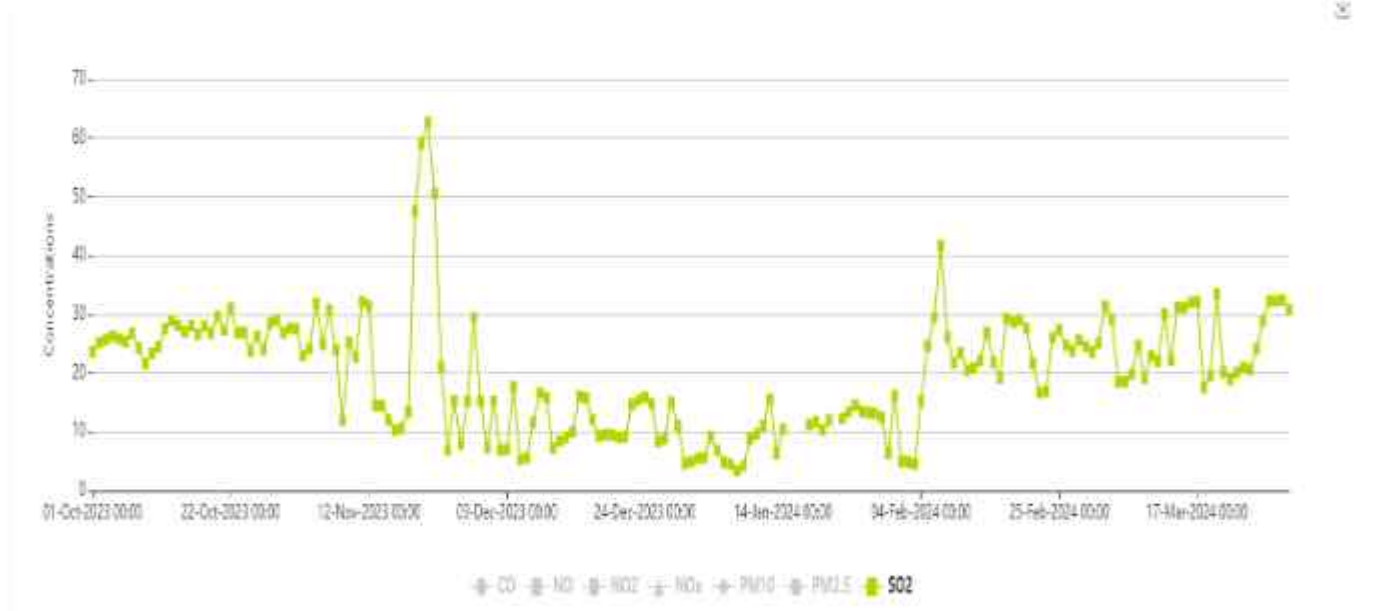
LOCATION : PANCHRULIA

Parameters : PM 2.5



LOCATION : PANCHRULIA

Parameters : SO2



LOCATION : PANCHRULIA

Parameters : NOx

10



LOCATION : PANCHRULIA

Parameters : CO

15





TEST REPORT

Name & Address Of the Customer : M/s. Orissa Alloy Steel Pvt Limited. Address: Vill- Gokulpur, P.O- Shyamraipur, P.S- Kharagpur (L), Paschim Medinipur- 721301, West Bengal.	Report No.	: QLS/P-29/23-24/C/22
	Date	: 15.04.2024
	Sample No.	: QLS/P-29/23-24/22
	Sample Description	: Ambient Air
	Date of performance	: 27.03.2024-30.03.2024
Ref No. & Dated	: A124379587, 26.03.2024	

Analysis Result

Location : Near Plant Main Gate		Date of sampling: 25.03.2024-26.03.2024		
Sampling Done by: C.Sahoo		Sampling done as per : CPCB Guidelines (Volume-1)		
Environmental Condition : Clear & Sunny				
Sl. No.	Pollutants	Result	LIMIT	Method of Test Reference
1	Particulate matter (<10µm) in µg/m ³	80	100	IS: 5182 (Part-23)-(RA-2017)
2	Particulate matter (<2.5µm) in µg/m ³	48	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO ₂) in µg/m ³	8.1	80	IS- 5182 (Part-2)-2001, (RA-2017)
4	Nitrogen dioxide (NO ₂) in µg/m ³	28.3	80	IS: 5182 (Part- 6)- (RA-2017)
5	Carbon Monoxide (CO) in µg/m ³	709	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:

Ranjan

for Qualissure Laboratory Services
Reviewed & Authorized By

Benimadhab Gorai
Benimadhab Gorai, Chemist
(Authorized Signatory)

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



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TEST REPORT

Name & Address Of the Customer : M/s. Orissa Alloy Steel Pvt Limited. Address: Vill- Gokulpur, P.O- Shyamraipur, P.S- Kharagpur (L), Paschim Medinipur- 721301, West Bengal.	Report No.	: QLS/P-29/23-24/C/23
	Date	: 15.04.2024
	Sample No.	: QLS/P-29/23-24/23
	Sample Description	: Ambient Air
	Date of performance	: 27.03.2024-30.03.2024
Ref No. & Dated	: A124379587, 26.03.2024	

Analysis Result

Location : Barkola Village		Date of sampling: 25.03.2024-26.03.2024		
Sampling Done by: C.Sahoo		Sampling done as per : CPCB Guidelines (Volume-1)		
Environmental Condition : Clear & Sunny				
Sl. No.	Pollutants	Result	LIMIT	Method of Test Reference
1	Particulate matter (<10µm) in µg/m ³	55	100	IS: 5182 (Part-23)-(RA-2017)
2	Particulate matter (<2.5µm) in µg/m ³	24	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO ₂) in µg/m ³	5.9	80	IS: 5182 (Part-2)-2001, (RA-2017)
4	Nitrogen dioxide (NO ₂) in µg/m ³	27.6	80	IS: 5182 (Part- 6) (RA-2017)
5	Carbon Monoxide (CO) in µg/m ³	481	2000	IS: 5182 (Part- 10)- (RA-2017)
NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.				

Report Prepared By:

R. Saha

for Qualissure Laboratory Services
Reviewed & Authorized By

Benimadhab Gorai
Benimadhab Gorai, Chemist
(Authorized Signatory)

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

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TEST REPORT

Name & Address Of the Customer : M/s. Orissa Alloy Steel Pvt Limited. Address: Vill- Gokulpur, P.O- Shyamraipur, P.S- Kharagpur (L), Paschim Medinipur- 721301, West Bengal.	Report No.	: QLS/P-29/23-24/C/24
	Date	: 15.04.2024
	Sample No.	: QLS/P-29/23-24/24
	Sample Description	: Ambient Air
	Date of performance	: 27.03.2024-30.03.2024
Ref No. & Dated	: A124379587, 26.03.2024	

Analysis Result

Location : Walipur Village		Date of sampling: 25.03.2024-26.03.2024		
Sampling Done by: C.Sahoo		Sampling done as per : CPCB Guidelines (Volume-1)		
Environmental Condition : Clear & Sunny				
Sl. No.	Pollutants	Result	LIMIT	Method of Test Reference
1	Particulate matter (<10µm) in µg/m ³	60	100	IS: 5182 (Part-23)-(RA-2017)
2	Particulate matter (<2.5µm) in µg/m ³	27	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	25.7	80	IS: 5182 (Part- 6)- (RA-2017)
5	Carbon Monoxide (CO) in µg/m ³	481	2000	IS: 5182 (Part- 10)- (RA-2017)
NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.				

Report Prepared By:

Bavikar

for Qualissure Laboratory Services
Reviewed & Authorized By

Benimadhab Gora
Benimadhab Gora, Chemist
(Authorized Signatory)

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TEST REPORT

Name & Address Of the Customer : M/s. Orissa Alloy Steel Pvt Limited. Address: Vill- Gokulpur, P.O- Shyamraipur, P.S- Kharagpur (L), Paschim Medinipur- 721301, West Bengal.	Report No.	: QLS/P-29/23-24/C/25
	Date	: 15.04.2024
	Sample No.	: QLS/P-29/23-24/25
	Sample Description	: Ambient Air
	Date of performance	: 28.03.2024- 30.03.2024
	Ref No.& Date	: A124379587, 26.03.2024

Analysis Result

Location : Jharia Village		Date of sampling: 26.03.2024-27.03.2024		
Sampling Done by: C.Sahoo		Sampling done as per : CPCB Guidelines (Volume-1)		
Environmental Condition : Clear & Sunny				
Sl. No.	Pollutants	Result	LIMIT	Method of Test Reference
1	Particulate matter (<10µm) in µg/m ³	64	100	IS: 5182 (Part-23)-(RA-2017)
2	Particulate matter (<2.5µm) in µg/m ³	30	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO ₂) in µg/m ³	6.1	80	IS: 5182 (Part-2)-2001, (RA-2017)
4	Nitrogen dioxide (NO ₂) in µg/m ³	27.4	80	IS: 5182 (Part- 6)- (RA-2017)
5	Carbon Monoxide (CO) in µg/m ³	446	2000	IS: 5182 (Part- 10)- (RA-2017)
NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.				

Report Prepared By:

Barakar

for Qualissure Laboratory Services
Reviewed & Authorized By

Benimadhab Gorai
Benimadhab Gorai, Chemist
(Authorized Signatory)

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TEST REPORT

Name & Address Of the Customer : M/s. Orissa Alloy Steel Pvt Limited. Address: Vill- Gokulpur, P.O- Shyamraipur, P.S- Kharagpur (L), Paschim Medinipur- 721301, West Bengal.	Report No.	: QLS/P-29/23-24/C/26
	Date	: 15.04.2024
	Sample No.	: QLS/P-29/23-24/26
	Sample Description	: Ambient Air
	Date of performance	: 28.03.2024-30.03.2024
Ref No. & Dated	: A124379587, 26.03.2024	

Analysis Result

Location : Truck Parking Area		Date of sampling: 26.03.2024-27.03.2024		
Sampling Done by: C.Sahoo		Sampling done as per : CPCB Guidelines (Volume-1)		
Environmental Condition : Clear & Sunny				
Sl. No.	Pollutants	Result	LIMIT	Method of Test Reference
1	Particulate matter (<10 μ m) in μ g/m ³	78	100	IS: 5182 (Part-23)-(RA-2017)
2	Particulate matter (<2.5 μ m) in μ g/m ³	40	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO ₂) in μ g/m ³	7.5	80	IS: 5182 (Part-2)-2001, (RA-2017)
4	Nitrogen dioxide (NO ₂) in μ g/m ³	29.6	80	IS: 5182 (Part- 6)- (RA-2017)
5	Carbon Monoxide (CO) in μ g/m ³	629	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:

Ban Kati

for Qualissure Laboratory Services
Reviewed & Authorized By

Ban Kati
Benimadhab Gorai, Chemist
(Authorized Signatory)

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



TC-11003

TEST REPORT OF FUGITIVE AIR ANALYSIS

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

U.L.R. No. : TC1100323000000585F

Sample is drawn by M/s. Greenvision

Report No. : GV/AR/23-24/334

Name of Customer : M/s. Orissa Alloy Steel Pvt. Ltd.

Address of Customer : Vill. : Gokulpur, P.O. : Shyamraipur,
P.S. : Kharagpur (L), Paschim Medinipur, 721301.

Sample Description : Fugitive Air

Sampling Location : Ferro Alloy Plant

Sample Condition : In GMF Filter Paper & Plastic Bottle

Location of Testing : At Laboratory

Sampling Method : CPCB, Emission Regulation (Part III)

Sample Ref. ID : AS-191-2023(1)

Report Date : 27.12.2023

Date of Sampling : 15.12.2023

Date of Receiving : 17.12.2023

Analysis Started On : 18.12.2023

Analysis Completed On : 19.12.2023

Time of Sampling : 08:15 am to
04:15 pm

A. METROLOGICAL INFORMATION

Average Temperature ($^{\circ}$ C) : 25.8

Barometric Pressure (mm of Hg) : 756.0

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of TSPM	$\mu\text{g}/\text{m}^3$	542.38	IS : 5182 (Part 4),1999
02.	Concentration of SO_2	$\mu\text{g}/\text{m}^3$	7.43	IS : 5182 (Part 2),2006
03.	Concentration of NO_2	$\mu\text{g}/\text{m}^3$	29.92	IS : 5182 (Part 6),2006

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

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

S. Roy Chowdhury

Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

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

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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



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

TEST REPORT OF FUGITIVE AIR ANALYSIS

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

Sample is drawn by M/s. Greenvision

Report No. : GV/AR/23-24/335
Name of Customer : M/s. Orissa Alloy Steel Pvt. Ltd.
Address of Customer : Vill. : Gokulpur, P.O. : Shyamraipur,
P.S. : Kharagpur (L), Paschim Medinipur, 721301.
Sample Description : Fugitive Air
Sampling Location : Raw Material Handling Yard
Sample Condition : In GMF Filter Paper & Plastic Bottle
Location of Testing : At Laboratory
Sampling Method : CPCB, Emission Regulation (Part III)

U.L.R. No. : TC1100323000000586F

Sample Ref. ID : AS-191-2023(2)
Report Date : 27.12.2023
Date of Sampling : 15.12.2023
Date of Receiving : 17.12.2023
Analysis Started On : 18.12.2023
Analysis Completed On : 19.12.2023
Time of Sampling : 08:40 am to
04:40 pm

A. METROLOGICAL INFORMATION

Average Temperature (°C) : 25.8
Barometric Pressure (mm of Hg) : 756.0

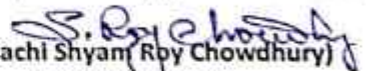
B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of TSPM	µg/m ³	691.25	IS : 5182 (Part 4),1999
02.	Concentration of SO ₂	µg/m ³	7.16	IS : 5182 (Part 2),2006
03.	Concentration of NO ₂	µg/m ³	29.54	IS : 5182 (Part 6),2006

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

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


Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager


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

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TC-11003

TEST REPORT OF FUGITIVE AIR ANALYSIS

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

Sample is drawn by M/s. Greenvision

U.L.R. No. : TC110032300000587F

Report No. : GV/AR/23-24/336
Name of Customer : M/s. Orissa Alloy Steel Pvt. Ltd.
Address of Customer : Vill. : Gokulpur, P.O. : Shyamraipur,
P.S. : Kharagpur (L), Paschim Medinipur, 721301.
Sample Description : Fugitive Air
Sampling Location : Railway Siding
Sample Condition : In GMF Filter Paper & Plastic Bottle
Location of Testing : At Laboratory
Sampling Method : CPCB, Emission Regulation (Part III)

Sample Ref. ID : AS-191-2023(3)
Report Date : 27.12.2023
Date of Sampling : 15.12.2023
Date of Receiving : 17.12.2023
Analysis Started On : 18.12.2023
Analysis Completed On : 19.12.2023
Time of Sampling : 09:15 am to
05:15 pm

A. METROLOGICAL INFORMATION

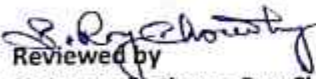
Average Temperature (°C) : 25.8
Barometric Pressure (mm of Hg) : 756.0

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of TSPM	µg/m ³	445.26	IS : 5182 (Part 4),1999
02.	Concentration of SO ₂	µg/m ³	8.24	IS : 5182 (Part 2),2006
03.	Concentration of NO ₂	µg/m ³	30.24	IS : 5182 (Part 6),2006

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

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


Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager


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

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



TC-11003

TEST REPORT OF FUGITIVE AIR ANALYSIS

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

Sample is drawn by M/s. Greenvision

Report No. : GV/AR/23-24/337

Name of Customer : M/s. Orissa Alloy Steel Pvt. Ltd.

Address of Customer : Vill. : Gokulpur, P.O. : Shyamraipur,
P.S. : Kharagpur (L), Paschim Medinipur, 721301.

Sample Description : Fugitive Air

Sampling Location : DIP Plant Area

Sample Condition : In GMF Filter Paper & Plastic Bottle

Location of Testing : At Laboratory

Sampling Method : CPCB, Emission Regulation (Part III)

U.L.R. No. : TC1100323000000588F

Sample Ref. ID : AS-191-2023(4)

Report Date : 27.12.2023

Date of Sampling : 15.12.2023

Date of Receiving : 17.12.2023

Analysis Started On : 18.12.2023

Analysis Completed On : 19.12.2023

Time of Sampling : 09:50 am to
05:50 pm

A. METROLOGICAL INFORMATION

Average Temperature ($^{\circ}\text{C}$) : 25.8

Barometric Pressure (mm of Hg) : 756.0

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of TSPM	$\mu\text{g}/\text{m}^3$	538.72	IS : 5182 (Part 4),1999
02.	Concentration of SO_2	$\mu\text{g}/\text{m}^3$	7.96	IS : 5182 (Part 2),2006
03.	Concentration of NO_2	$\mu\text{g}/\text{m}^3$	29.82	IS : 5182 (Part 6),2006

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

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

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

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

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TC-11003

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TEST REPORT OF FUGITIVE AIR ANALYSIS

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

U.L.R. No. : TC1100323000000589F

Sample is drawn by M/s. Greenvision

Report No. : GV/AR/23-24/338

Name of Customer : M/s. Orissa Alloy Steel Pvt. Ltd.

Address of Customer : Vill. : Gokulpur, P.O. : Shyamraipur,
P.S. : Kharagpur (L), Paschim Medinipur, 721301.

Sample Description : Fugitive Air

Sampling Location : SMS Area

Sample Condition : In GMF Filter Paper & Plastic Bottle

Location of Testing : At Laboratory

Sampling Method : CPCB, Emission Regulation (Part III)

Sample Ref. ID : AS-191-2023(5)

Report Date : 27.12.2023

Date of Sampling : 15.12.2023 to
16.12.2023

Date of Receiving : 17.12.2023

Analysis Started On : 18.12.2023

Analysis Completed On : 19.12.2023

Time of Sampling : 04:35 pm to
12:35 am

A. METROLOGICAL INFORMATION

Average Temperature ($^{\circ}$ C) : 22.3

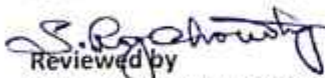
Barometric Pressure (mm of Hg) : 756.0

B. RESULT OF ANALYSIS


Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of TSPM	$\mu\text{g}/\text{m}^3$	516.37	IS : 5182 (Part 4),1999
02.	Concentration of SO_2	$\mu\text{g}/\text{m}^3$	7.53	IS : 5182 (Part 2),2006
03.	Concentration of NO_2	$\mu\text{g}/\text{m}^3$	29.76	IS : 5182 (Part 6),2006

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

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



Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager


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

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TC-11003

TEST REPORT OF FUGITIVE AIR ANALYSIS

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

U.L.R. No. : TC1100323000000590F

Sample is drawn by M/s. Greenvision

Report No. : GV/AR/23-24/339
Name of Customer : M/s. Orissa Alloy Steel Pvt. Ltd.
Address of Customer : Vill. : Gokulpur, P.O. : Shyamraipur,
P.S. : Kharagpur (L), Paschim Medinipur, 721301.
Sample Description : Fugitive Air
Sampling Location : Coke Oven Site

Sample Ref. ID : AS-191-2023(6)
Report Date : 27.12.2023
Date of Sampling : 15.12.2023 to
16.12.2023
Date of Receiving : 17.12.2023
Analysis Started On : 18.12.2023
Analysis Completed On : 19.12.2023
Time of Sampling : 05:05 pm to
01:05 am

Sample Condition : In GMF Filter Paper & Plastic Bottle
Location of Testing : At Laboratory
Sampling Method : CPCB, Emission Regulation (Part III)

A. METROLOGICAL INFORMATION

Average Temperature (°C) : 22.3
Barometric Pressure (mm of Hg) : 756.0

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of TSPM	µg/m ³	496.85	IS : 5182 (Part 4),1999
02.	Concentration of SO ₂	µg/m ³	7.89	IS : 5182 (Part 2),2006
03.	Concentration of NO ₂	µg/m ³	30.04	IS : 5182 (Part 6),2006

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

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

Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

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

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3. Retention period of tested sample (Filter Paper) is 6 months from the date of issue test report unless otherwise specified.



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TEST REPORT OF FUGITIVE AIR ANALYSIS

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

Sample is drawn by M/s. Greenvision

U.L.R. No. : TC110032300000591F

Report No. : GV/AR/23-24/340
Name of Customer : M/s. Orissa Alloy Steel Pvt. Ltd.
Address of Customer : Vill. : Gokulpur, P.O. : Shyamraipur,
P.S. : Kharagpur (L), Paschim Medinipur, 721301.
Sample Description : Fugitive Air
Sampling Location : DRI & CPP Plant Area

Sample Ref. ID : AS-191-2023(7)
Report Date : 27.12.2023
Date of Sampling : 15.12.2023 to
16.12.2023
Date of Receiving : 17.12.2023
Analysis Started On : 18.12.2023
Analysis Completed On : 19.12.2023
Time of Sampling : 05:40 pm to
01:40 am

Sample Condition : In GMF Filter Paper & Plastic Bottle
Location of Testing : At Laboratory
Sampling Method : CPCB, Emission Regulation (Part III)

A. METROLOGICAL INFORMATION

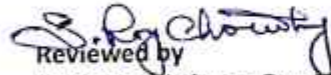
Average Temperature (°C) : 22.3
Barometric Pressure (mm of Hg) : 756.0

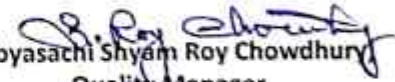
B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of TSPM	µg/m ³	741.28	IS : 5182 (Part 4),1999
02.	Concentration of SO ₂	µg/m ³	8.12	IS : 5182 (Part 2),2006
03.	Concentration of NO ₂	µg/m ³	30.68	IS : 5182 (Part 6),2006

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

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


Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager


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

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GREENVISION

(A leading environmental research laboratory)

Recognized by West Bengal Pollution Control Board

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

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



TEST REPORT OF FUGITIVE AIR ANALYSIS

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

Sample is drawn by M/s. Greenvision	U.L.R. No. : TC1100323000000592F
Report No. : GV/AR/23-24/341	Sample Ref. ID : AS-191-2023(8)
Name of Customer : M/s. Orissa Alloy Steel Pvt. Ltd.	Report Date : 27.12.2023
Address of Customer : Vill. : Gokulpur, P.O. : Shyamraipur, P.S. : Kharagpur (L), Paschim Medinipur, 721301.	Date of Sampling : 15.12.2023 to 16.12.2023
Sample Description : Fugitive Air	Date of Receiving : 17.12.2023
Sampling Location : Pellet Plant Area	Analysis Started On : 18.12.2023
	Analysis Completed On : 19.12.2023
	Time of Sampling : 06:15 pm to 02:15 am
Sample Condition : In GMF Filter Paper & Plastic Bottle	
Location of Testing : At Laboratory	
Sampling Method : CPCB, Emission Regulation (Part III)	

A. METROLOGICAL INFORMATION

Average Temperature ($^{\circ}$ C) : 22.3

Barometric Pressure (mm of Hg) : 756.0

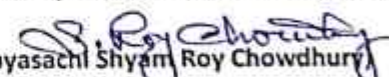
B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of TSPM	$\mu\text{g}/\text{m}^3$	622.54	IS : 5182 (Part 4),1999
02.	Concentration of SO_2	$\mu\text{g}/\text{m}^3$	7.6	IS : 5182 (Part 2),2006
03.	Concentration of NO_2	$\mu\text{g}/\text{m}^3$	29.64	IS : 5182 (Part 6),2006

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

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


Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager


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

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Urvashi Malhar, Phase II, MEAV-25, Bengal Ambuja Housing Complex, City Centre, Durgapur-713216
Contact : 0343-2543019, 9732580459, 9433158173, email : greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com

TEST REPORT OF FUGITIVE AIR ANALYSIS

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

U.L.R. No. : TC110032300000593F

Sample is drawn by M/s. Greenvision

Report No. : GV/AR/23-24/342
Name of Customer : M/s. Orissa Alloy Steel Pvt. Ltd.
Address of Customer : Vill. : Gokulpur, P.O. : Shyamraipur,
P.S. : Kharagpur (L), Paschim Medinipur, 721301.
Sample Description : Fugitive Air
Sampling Location : Construction Site
Sample Condition : In GMF Filter Paper & Plastic Bottle
Location of Testing : At Laboratory
Sampling Method : CPCB, Emission Regulation (Part III)

Sample Ref. ID : AS-191-2023(9)
Report Date : 27.12.2023
Date of Sampling : 16.12.2023
Date of Receiving : 17.12.2023
Analysis Started On : 18.12.2023
Analysis Completed On : 19.12.2023
Time of Sampling : 09:25 am to
05:25 pm

A. METROLOGICAL INFORMATION

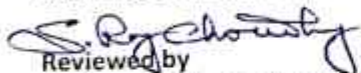
Average Temperature ($^{\circ}\text{C}$) : 25.5
Barometric Pressure (mm of Hg) : 756.0

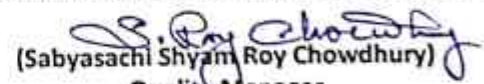
B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of TSPM	$\mu\text{g}/\text{m}^3$	504.28	IS : 5182 (Part 4),1999
02.	Concentration of SO_2	$\mu\text{g}/\text{m}^3$	8.1	IS : 5182 (Part 2),2006
03.	Concentration of NO_2	$\mu\text{g}/\text{m}^3$	30.26	IS : 5182 (Part 6),2006

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

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


Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager


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

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DOC No. -QLS/SAMP/01-A/00

TEST REPORT

Name & Address Of the Customer : M/s. Orissa Alloy Steel Pvt Limited. Address: VIII- Gokulpur, P.O- Shyamraipur, P.S- Kharagpur (I), Paschim Medinipur- 721301, West Bengal.	Report No. : QLS/P-29/23-24/C/27 Date : 15.04.2024 Sample No. : QLS/P-29/23-24/27-35 Date of Performance : 27.03.2024-30.03.2024 Sample Description : Fugitive Air Ref No.& Dated : A124379587, 26.03.2024
--	---

Analysis Result of Fugitive Air

Sampling Done by: C.Sahoo		Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Clear & Sunny			
Sample No.	Location	Date of Sampling	(SPM) in $\mu\text{g}/\text{m}^3$
27	Ferro Alloy Plant	25.03.2024	276
28	Raw Material Yard	25.03.2024	412
29	Railway Siding	26.03.2024	188
30	DIP Plant Area	26.03.2024	214
31	SMS Area	26.03.2024	236
32	Coke Oven Site	26.03.2024	220
33	Construction Site	26.03.2024	233
34	DRI & CPP Plant Area	26.03.2024	411
35	Pellet Plant Area	26.03.2024	314
NOTE: Fugitive emission Standard - 4000 $\mu\text{g}/\text{m}^3$ as per Environment (Protection) rules, 1986			

Report Prepared By:

Ranjan

for Qualissure Laboratory Services
Reviewed & Authorized By

Benimadhab Gorai
Benimadhab Gorai, Chemist
(Authorized Signatory)

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ANNEXURE-VIII

361, Prantick Pally,
45/361, Bose Pukur Road,
Kolkata - 700107
Email : qualissure@gmail.com
Mob. No. : 9831287086
9830093976

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

TEST REPORT

Name & Address Of the Customer : M/s. Orissa Alloy Steel Pvt Limited., Address: Vill- Gokulpur, P.O- Shyamraipur, P.S- Kharapur (L), Paschim Medinipur- 721301, West Bengal.	Report No. : QLS/P-185/23-24/C/09 Date : 27.04.2024 Sample No. : QLS/P-185/23-24/09 Sample Description : Slag Sample Mark : Ferro Alloy Slag Date of Performance : 29.03.2024-08.04.2024 Sample Drawn On : 28.03.2024 Ref No.& Date : A124379588 On 26.02.2024
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Analysis Result

Sl. No.	Parameters	Test Method	TCLP Test Result	Limit as per Hazardous & Other waste (management and Transboundary Movement Rules) Schedule-2
1.	Zinc (as Zn) in mg/l	EPA 3050 B	0.49	250
2.	Lead (as Pb) in mg/l	EPA 3050 B	0.22	5.0
3.	Copper (as Cu) in mg/l	EPA 3050 B	0.51	25.0
4.	Cobalt (as Co) in mg/l	EPA 3050 B	0.36	80.0
5.	Nickel (as Ni) in mg/l	EPA 3050 B	0.49	20.0
6.	Arsenic (as As) in mg/l	EPA 3050 B	<0.01	5.0
7.	Mercury (as Hg) in mg/l	EPA 3050 B	<0.001	0.2
8.	Total Chromium (as Cr) in mg/l	EPA 3050 B	0.28	5.0
9.	Manganese (as Mn) in mg/l	EPA 3050 B	0.95	10.0

Report Prepared By:

for Qualissure Laboratory Services
Reviewed & Authorized By

Bishnupriya Banerjee, Chemist
(Authorized Signatory)

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361, Prantick Pally,
45/361, Bose Pukur Road,
Kolkata - 700107
Email : qualissure@gmail.com
Mob. No. : 9831287086
9830093976

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

TEST REPORT

Name & Address Of the Customer : M/s. Orissa Alloy Steel Pvt Limited. Address: Vill- Gokulpur, P.O- Shyamraipur, P.S- Kharagpur (L), Paschim Medinipur- 721301, West Bengal.	Report No. : QLS/P-29/23-24/C/45 Date : 22.04.2024 Sample No. : QLS/P-29/23-24/45 Sample Description : Slag Sample Mark : SMS Sludge Date of Performance : 27.03.2024-08.04.2024 Sample Drawn On : 26.03.2024 Ref No.& Date : A124379587 On 26.03.2024
---	---

Analysis Result

Sl. No.	Parameters	Test Method	TCLP Test Result	Limit as per Hazardous & Other waste (management and Transboundary Movement Rules) Schedule-2
1.	Zinc (as Zn) in mg/l	EPA 3050 B	0.85	250
2.	Lead (as Pb) in mg/l	EPA 3050 B	0.36	5.0
3.	Copper (as Cu) in mg/l	EPA 3050 B	0.39	25.0
4.	Cobalt (as Co) in mg/l	EPA 3050 B	0.2	80.0
5.	Nickel (as Ni) in mg/l	EPA 3050 B	0.61	20.0
6.	Arsenic (as As) in mg/l	EPA 3050 B	<0.01	5.0
7.	Mercury (as Hg) in mg/l	EPA 3050 B	<0.001	0.2
8.	Total Chromium (as Cr) in mg/l	EPA 3050 B	0.23	5.0
9.	Manganese (as Mn) in mg/l	EPA 3050 B	0.91	10.0

Report Prepared By:

for Qualissure Laboratory Services
Reviewed & Authorized By

Bishnupriya Banerjee, Chemist
(Authorized Signatory)

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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 Alloy Steel Pvt Limited. Address: Vill- Gokulpur, P.O- Shyamraipur, P.S- Kharagpur (L), Paschim Medinipur- 721301, West Bengal.	Report No.	: QLS/P-29/23-24/C/46
	Date	: 22.04.2024
	Sample No.	: QLS/P-29/23-24/C/46
	Sample Description	: Leachate
	Sample Location	: Dolochar
	Period Of Analysis	: 26.03.2024
	Sample Drawn On	: 28.03.2024-08.04.2024
	Ref No. Date	: A124379587 On 26.03.2024

Analysis Result

Sl. No.	Parameters	Test Method	Result	Limit as per Hazardous & Other waste (management and Transboundary Movement Rules) Schedule-2
1.	Zinc (as Zn) in mg/l	APHA 24th Edition-2023, 3111 B	1.22	250
2.	Lead (as Pb) in mg/l	APHA 24th Edition-2023, 3111 B	0.4	5.0
3.	Copper (as Cu) in mg/l	APHA 24th Edition-2023, 3111 B	0.28	25.0
4.	Cobalt (as Co) in mg/l	APHA 24th Edition-2023, 3111 B	0.32	80.0
5.	Nickel (as Ni) in mg/l	APHA 24th Edition-2023, 3111 B	0.73	20.0
6.	Arsenic (as As) in mg/l	APHA 24th Edition-2023, 3114 B	0.03	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	0.45	5.0
9.	Manganese (as Mn) in mg/l	APHA 24th Edition-2023, 3111 B	1.31	10.0

Report Prepared By:

for Qualissure Laboratory Services
Reviewed & Authorized By

Bishnupriya Banerjee, Chemist
(Authorized Signatory)

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TEST REPORT

Name & Address Of the Customer : M/s. Orissa Alloy Steel Pvt Limited. Address: Vill- Gokulpur, P.O- Shyamraipur, P.S- Kharagpur (L), Paschim Medinipur- 721301, West Bengal.	Report No. : QLS/P-29/23-24/C/38 Date : 22.04.2024 Sample No. : QLS/P-29/23-24/38 Sample Description : Effluent Sample Mark : STP Outlet Sample Drawn On : 26.03.2024 Date of Performance : 27.03.2024-04.04.2024 Ref No. & Dated : A124379587, 26.03.2024
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Analysis Result

Sl. No.	Parameter	TEST METHOD	Result	Limit as per CPCB for discharge of effluents	
				Inland Surface Water	Public Sewers
1.	pH at 25° C	APHA 24 th Edition-2023, 4500 H+	7.81	5.5 to 9.0	5.5 to 9.0
2.	Total Suspended Solid (as TSS) in mg/l	APHA 24 th Edition-2023, 2540 D	34	100	600
3.	Chemical Oxygen Demand (as COD) mg/l	APHA 24 th Edition-2023, 5220B	78	250	---
4.	Biochemical Oxygen Demand (as BOD) mg/l	IS 3025 (Part 44)-1993, RA:2019	22	30	350
5.	Oil & Grease in mg/l	APHA 24 th Edition-2023, 5520B	4.7	10	20

Report Prepared By:

for Qualissure Laboratory Services
Reviewed & Authorized By

Bishnupriya Banerjee, Chemist
(Authorized Signatory)



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TEST REPORT

Name & Address Of the Customer : M/s. Orissa Alloy Steel Pvt Limited. Address: Vill- Gokulpur, P.O- Shyamraipur, P.S- Kharagpur (L), Paschim Medinipur- 721301, West Bengal.	Report No.	: QLS/P-29/23-24/C/39
	Date	: 22.04.2024
	Sample No.	: QLS/P-29/23-24/39
	Sample Description	: Effluent
	Sample Mark	: ETP Inlet
	Sample Drawn On	: 26.03.2024
	Date of Performance	: 27.03.2024-04.04.2024
Ref No. & Dated	: A124379587, 26.03.2024	

Analysis Result

Sl. No.	Parameter	TEST METHOD	Result	Limit as per CPCB for discharge of effluents	
				Inland Surface Water	Public Sewers
1.	pH at 25° C	APHA 24 th Edition-2023, 4500 H+	6.84	5.5 to 9.0	5.5 to 9.0
2.	Total Suspended Solid(as TSS) In mg/l	APHA 24 th Edition-2023, 2540 D	78	100	600
3.	Chemical Oxygen Demand (as COD) mg/l	APHA 24 th Edition-2023, 5220B	369	250	—
4.	Biochemical Oxygen Demand (as BOD) mg/l	IS:3025 (Part 44)-1993, RA:2014	72	30	350
5.	Oil & Grease in mg/l	APHA 24 th Edition-2023, 5520B	5.7	10	20

Report Prepared By:

for Qualissure Laboratory Services
Reviewed & Authorized By

Bishnupriya Banerjee, Chemist
(Authorized Signatory)



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TEST REPORT

Name & Address Of the Customer : M/s. Orissa Alloy Steel Pvt Limited. Address: Vill- Gokulpur, P.O- Shyamraipur, P.S- Kharagpur (L), Paschim Medinipur- 721301, West Bengal.	Report No. : QLS/P-29/23-24/C/40 Date : 22.04.2024 Sample No. : QLS/P-29/23-24/40 Sample Description : Effluent Sample Mark : ETP Outlet Sample Drawn On : 26.03.2024 Date of Performance : 27.03.2024-04.04.2024 Ref No. & Date : A124379587, 26.03.2024
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Analysis Result

Sl. No.	Parameter	TEST METHOD	Result	Limit as per CPCB for discharge of effluents	
				Inland Surface Water	Public Sewers
1.	pH at 25 ^o C	APHA 24 th Edition-2023, 4500 H+	7.31	5.5 to 9.0	5.5 to 9.0
2.	Total Suspended Solid (as TSS) in mg/l	APHA 24 th Edition-2023, 2540 D	24	100	600
3.	Chemical Oxygen Demand (as COD) mg/l	APHA 24 th Edition-2023, 5220B	58	250	---
4.	Biochemical Oxygen Demand (as BOD) mg/l	IS 3025 (Part 44)-1993, RA:2014	17	30	350
5.	Oil & Grease in mg/l	APHA 24 th Edition-2023, 5520B	<1.4	10	20

Report Prepared By:

for Qualissure Laboratory Services
Reviewed & Authorized By

Bishnupriya Banerjee, Chemist
(Authorized Signatory)



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TEST REPORT

Name & Address Of the Customer : M/s. Orissa Alloy Steel Pvt Limited. Address: Vill- Gokulpur, P.O- Shyamraipur, P.S- Kharagpur (L), Paschim Medinipur- 721301, West Bengal.	ULR No.	: TC627124000000512F
	Report No.	: QLS/P-29/23-24/C/41
	Date	: 22.04.2024
	Sample No.	: QLS/P-29/23-24/41
	Sample Description	: Drinking Water
	Sample Mark	: Borkoia Village
	Sample Drawn On	: 26.03.2024
	Date of performance	: 27.03.2024-08.04.2024
	Ref No. & Date	: A124379587 On 26.03.2024

Analysis Result

(A) Microbiological Analysis

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

(B) Chemical Analysis

Sl. No.	Test Parameter	Test Method	IS 10500:2012 Amd. No. 1 & 2		Result
			Acceptable Limit	Permissible Limit	
1.	Colour in Hazen Units	IS 3025 (Part 4): 2021	5	15	<5
2.	Odour	IS 3025 (Part 5): 2022	Agreeable	Agreeable	Agreeable
3.	pH Value at 25°C	IS 3025 (Part 11): 2022	6.5-8.5	No Relaxation	7.29
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	388
6.	Aluminium (as Al) in mg/l	IS 3025 (Part 55): 2003 (RA 2019)	0.03	0.2	<0.01
7.	Ammonia (as NH ₃) in mg/l	IS 3025 (Part 34): 1988(RA 2019)	0.5	No Relaxation	<0.5
8.	Calcium (as Ca) in mg/l	IS 3025 (Part 40): 2023	75	200	29.5
9.	Chloride (as Cl) in mg/l	IS 3025 (Part 32): 1988 (RA 2019)	250	1000	93.9
10.	Copper (as Cu) in mg/l	IS 3025 (Part 42): 1992(RA 2019)	0.05	1.5	<0.02
11.	Fluoride (as F) in mg/l	APHA 24 th Edition 2023, 4500 F D	1.0	1.5	0.24
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	0.38
14.	Magnesium (as Mg) in mg/l	APHA 24 th Edition 2023, 3500 Mg B	30	100	12.1
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	0.8
17.	Sulphate (as SO ₄) in mg/l	IS 3025 (Part 24): Sec1, 2022	200	400	37.8
18.	Alkalinity (as CaCO ₃) in mg/l	IS 3025 (Part 23): 2023	200	600	117.6
19.	Total Hardness (as CaCO ₃) in mg/l	IS 3025 (Part 21): 2009 (RA 2019)	200	600	124.2
20.	Cadmium (as Cd) in mg/l	IS 3025 (Part 41): 2023	0.003	No Relaxation	<0.002
21.	Cyanide (as Cn) in mg/l	IS 3025 (Part 27): 1986(RA 2019)	0.05	No Relaxation	<0.02
22.	Lead (as Pb) in mg/l	IS 3025 (Part 47): 1994 (RA 2019)	0.01	No Relaxation	<0.01
23.	Mercury (as Hg) in mg/l	IS 3025 (Part 48): 1994(RA 2019)	0.001	No Relaxation	<0.001
24.	Arsenic (as As) in mg/l	IS 3025 (Part 37): 2022	0.01	No Relaxation	<0.01
25.	Zinc (as Zn) in mg/l	IS 3025 (Part 49): 1994 (RA 2019)	5	15	0.12
26.	Total Chromium (as Cr) in mg/l	IS 3025 (Part 52): 2014(RA 2019)	0.05	No Relaxation	<0.05

Report Prepared By:

for Qualissure Laboratory Services
 Reviewed & Authorized By

S. Chakraborty
 Soumy Chakraborty, Microbiologist
 (Authorized Signatory)

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

for Qualissure Laboratory Services
 Reviewed & Authorized By

Bishnupriya Banerjee
 Bishnupriya Banerjee, Chemist
 (Authorized Signatory)



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TEST REPORT

Name & Address Of the Customer :	ULR No.	: TC6271240000000513F
	Report No.	: QLS/P-29/23-24/C/42
M/s. Orissa Alloy Steel Pvt Limited.	Date	: 22.04.2024
	Sample No.	: QLS/P-29/23-24/42
Address: Vill- Gokulpur,	Sample Description	: Drinking Water
P.O- Shyamraipur, P.S- Kharagpur (L),	Sample Mark	: Jharia Village
Paschim Medinipur- 721301,	Sample Drawn On	: 26.03.2024
West Bengal.	Date of performance	: 27.03.2024 - 08.04.2024
	Ref No. & Date	: A124379587 On 26.03.2024

Analysis Result

(A) Microbiological Analysis

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

(B) Chemical Analysis

Sl. No.	Test Parameter	Test Method	IS 10500:2012 Amd. No. 1 & 2		Result
			Acceptable Limit	Permissible Limit	
1.	Colour in Hazen Units	IS 3025 (Part 4): 2021	5	15	<5
2.	Odour	IS 3025 (Part 5): 2022	Agreeable	Agreeable	Agreeable
3.	pH Value at 25°C	IS 3025 (Part 11): 2022	6.5-8.5	No Relaxation	7.37
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	398
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	27.9
9.	Chloride(as Cl) in mg/l	IS 3025 (Part 32): 1988(RA 2019)	250	1000	80.2
10.	Copper(as Cu) in mg/l	IS 3025 (Part 42): 1992(RA 2019)	0.05	1.5	<0.02
11.	Fluoride(as F) in mg/l	APHA 24 th Edition 2023, 4500 F.D.	1.0	1.5	0.13
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	0.41
14.	Magnesium (as Mg) in mg/l	APHA 24 th Edition 2023, 3500 Mg B	30	100	10.7
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	0.64
17.	Sulphate (as SO ₄) in mg/l	IS 3025 (Part 24): Sec1, 2022	200	400	29.8
18.	Alkalinity(as CaCO ₃) in mg/l	IS 3025 (Part 23): 2023	200	600	109.2
19.	Total Hardness (as CaCO ₃) in mg/l	IS 3025 (Part 21): 2009 (RA 2019)	200	600	116.4
20.	Cadmium(as Cd) in mg/l	IS 3025 (Part 41): 2023	0.003	No Relaxation	<0.002
21.	Cyanide(as Cn) in mg/l	IS 3025 (Part 27): 1986(RA 2019)	0.05	No Relaxation	<0.02
22.	Lead(as Pb) in mg/l	IS 3025 (Part 47): 1994 (RA 2019)	0.01	No Relaxation	<0.01
23.	Mercury(as Hg) in mg/l	IS 3025 (Part 48): 1994(RA 2019)	0.001	No Relaxation	<0.001
24.	Arsenic(as As) in mg/l	IS 3025 (Part 37): 2022	0.01	No Relaxation	<0.01
25.	Zinc(as Zn) in mg/l	IS 3025 (Part 49): 1994 (RA 2019)	5	15	0.07
26.	Total Chromium (as Cr) in mg/l	IS 3025 (Part 52): 2014(RA 2019)	0.05	No Relaxation	<0.05

Report Prepared By:

for Qualissure Laboratory Services
Reviewed & Authorized By

S. Chakraborty
Soumy Chakraborty, Microbiologist
(Authorized Signatory)

for Qualissure Laboratory Services
Reviewed & Authorized By

Bishnupriya Banerjee
Bishnupriya Banerjee, Chemist
(Authorized Signatory)

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

TEST REPORT

Name & Address Of the Customer : M/s. Orissa Alloy Steel Pvt Limited. Address: Vill- Gokulpur, P.O- Shyamraipur, P.S- Kharagpur (L), Paschim Medinipur- 721301, West Bengal.	ULR No.	: TC6271240000000514F
	Report No.	: QLS/P-29/23-24/C/43
	Date	: 22.04.2024
	Sample No.	: QLS/P-29/23-24/43
	Sample Description	: Drinking Water
	Sample Mark	: Benasole Village
	Sample Drawn On	: 26.03.2024
	Date of performance	: 27.03.2024 - 08.04.2024
	Ref No. & Date	: A124379587 On 26.03.2024

Analysis Result

(A) Microbiological Analysis

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

(B) Chemical Analysis

Sl. No.	Test Parameter	Test Method	IS 10500:2012 Amd. No. 1 & 2		Result
			Acceptable Limit	Permissible Limit	
1.	Colour in Hazen Units	IS 3025 (Part 4): 2021	5	15	<5
2.	Odour	IS 3025 (Part 5): 2022	Agreeable	Agreeable	Agreeable
3.	pH Value at 25°C	IS 3025 (Part 11): 2022	6.5-8.5	No Relaxation	7.42
4.	Turbidity in NTU	IS 3025 (Part 10): 2023	1	5	<1.0
5.	Total Dissolved Solids (as TDS) in mg/l	IS 3025 (Part 16): 2023	500	2000	392
6.	Aluminium (as Al) in mg/l	IS 3025 (Part 55): 2003 (RA 2019)	0.03	0.2	<0.01
7.	Aminonia 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	23.2
9.	Chloride(as Cl) in mg/l	IS 3025 (Part 32): 1988 (RA 2019)	250	1000	90.0
10.	Copper(as Cu) in mg/l	IS 3025 (Part 42): 1992(RA 2019)	0.05	1.5	<0.02
11.	Fluoride(as F) in mg/l	APHA 24 th Edition 2023, 4500 F D	1.0	1.5	0.31
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	0.46
14.	Magnesium(as Mg) in mg/l	APHA 24 th Edition 2023, 3500 Mg B	30	100	9.5
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	0.72
17.	Sulphate (as SO ₄) in mg/l	IS 3025 (Part 24): Sec1, 2022	200	400	34.7
18.	Alkalinity(as CaCO ₃) in mg/l	IS 3025 (Part 23): 2023	200	600	113.4
19.	Total Hardness (as CaCO ₃) in mg/l	IS 3025 (Part 21): 2009 (RA 2019)	200	600	100.9
20.	Cadmium(as Cd) in mg/l	IS 3025 (Part 41): 2023	0.003	No Relaxation	<0.002
21.	Cyanide(as Cn) in mg/l	IS 3025 (Part 27): 1986(RA 2019)	0.05	No Relaxation	<0.02
22.	Lead(as Pb) in mg/l	IS 3025 (Part 47): 1994 (RA 2019)	0.01	No Relaxation	<0.01
23.	Mercury(as Hg) in mg/l	IS 3025 (Part 48): 1994(RA 2019)	0.001	No Relaxation	<0.001
24.	Arsenic(as As) in mg/l	IS 3025 (Part 37): 2022	0.01	No Relaxation	<0.01
25.	Zinc(as Zn) in mg/l	IS 3025 (Part 49): 1994 (RA 2019)	5	15	0.05
26.	Total Chromium (as Cr) in mg/l	IS 3025 (Part 52): 2014(RA 2019)	0.05	No Relaxation	<0.05

Report Prepared By:

for Qualissure Laboratory Services
 Reviewed & Authorized By

S. Chakraborty
 Soumy Chakraborty, Microbiologist
 (Authorized Signatory)

for Qualissure Laboratory Services
 Reviewed & Authorized By

Bishnupriya Banerjee
 Bishnupriya Banerjee, Chemist
 (Authorized Signatory)

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

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TEST REPORT

Name & Address Of the Customer : M/s. Orissa Alloy Steel Pvt Limited. Address: Vill- Gokulpur, P.O- Shyamraipur, P.S- Kharagpur (L), Paschim Medinipur- 721301, West Bengal.	ULR No.	: TC6271240000000515F
	Report No.	: QLS/P-29/23-24/C/44
	Date	: 22.04.2024
	Sample No.	: QLS/P-29/23-24/44
	Sample Description	: Drinking Water
	Sample Mark	: Tap near Ferro Plant
	Sample Drawn On	: 26.03.2024
	Date of performance	: 27.03.2024-08.04.2024
	Ref No. & Date	: A124379587 On 26.03.2024

Analysis Result

(A) Microbiological Analysis

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

(B) Chemical Analysis

Sl. No.	Test Parameter	Test Method	IS 10500:2012 Amd. No. 1 & 2		Result
			Acceptable Limit	Permissible Limit	
1.	Colour in Hazen Units	IS 3025 (Part 4): 2021	5	15	<5
2.	Odour	IS 3025 (Part 5): 2022	Agreeable	Agreeable	Agreeable
3.	pH Value at 25°C	IS 3025 (Part 11): 2022	6.5-8.5	No Relaxation	7.17
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	316
6.	Aluminium (as Al) in mg/l	IS 3025 (Part 55): 2003 (RA 2019)	0.09	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	24.8
9.	Chloride (as Cl) in mg/l	IS 3025 (Part 32): 1988 (RA 2019)	250	1000	74.4
10.	Copper (as Cu) in mg/l	IS 3025 (Part 42): 1992 (RA 2019)	0.05	1.5	<0.02
11.	Fluoride (as F) in mg/l	APHA 24 th Edition 2023, 4500 F D	1.0	1.5	0.19
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	0.52
14.	Magnesium (as Mg) in mg/l	APHA 24 th Edition 2023, 3500 Mg B	30	100	10.8
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	0.62
17.	Sulphate (as SO ₄) in mg/l	IS 3025 (Part 24): Sec1, 2022	200	400	38.2
18.	Alkalinity (as CaCO ₃) in mg/l	IS 3025 (Part 23): 2023	200	600	96.6
19.	Total Hardness (as CaCO ₃) in mg/l	IS 3025 (Part 21): 2009 (RA 2019)	200	600	112.5
20.	Cadmium (as Cd) in mg/l	IS 3025 (Part 41): 2023	0.003	No Relaxation	<0.002
21.	Cyanide (as Cn) in mg/l	IS 3025 (Part 27): 1986 (RA 2019)	0.05	No Relaxation	<0.02
22.	Lead (as Pb) in mg/l	IS 3025 (Part 47): 1994 (RA 2019)	0.01	No Relaxation	<0.01
23.	Mercury (as Hg) in mg/l	IS 3025 (Part 48): 1994 (RA 2019)	0.001	No Relaxation	<0.001
24.	Arsenic (as As) in mg/l	IS 3025 (Part 37): 2022	0.01	No Relaxation	<0.01
25.	Zinc (as Zn) in mg/l	IS 3025 (Part 49): 1994 (RA 2019)	5	15	<0.02
26.	Total Chromium (as Cr) in mg/l	IS 3025 (Part 52): 2014 (RA 2019)	0.05	No Relaxation	<0.05

Report Prepared By:

for Qualissure Laboratory Services
Reviewed & Authorized By

S. Chakraborty
Soumy Chakraborty, Microbiologist
(Authorized Signatory)

for Qualissure Laboratory Services
Reviewed & Authorized By

Bishnupriya Banerjee, Chemist
(Authorized Signatory)

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Qualissure Laboratory Services

ANNEXURE-XI

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



TC-6271

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

TEST REPORT

Name & Address Of the Customer : M/s. Orrisa Alloy Steel Pvt Limited. NH-6, Shyamraipur, Gokulpur , Kharagpur West Medinipur -721304	Report No.	: QLS/P-29/23-24/C/36D
	Date	: 15.04.2024
	Sample No.	: QLS/P-29/23-24/36D
	Date Of Performance	: 27.03.2024-30.03.2024
	Sample Description	: Noise Monitoring
	Ref No. & Dated	: A124379587, 26.03.2024

Monitoring Result of Noise

Sampling Done By: C.Sahoo			
Sampling Guideline : As per IS: 9876: 1981 (RA-2001)			
Location : Construction Site CP#			
Date of Monitoring : 25.03.2024			
Time	Lmax dB (A)	Lmin dB (A)	Avg. dB (A)
06.00-07.00	55.6	50.4	52.8
07.00-08.00	59.8	53.6	57.0
08.00-09.00	63.8	58.9	61.2
09.00-10.00	64.8	60.3	62.3
10.00-11.00	65.8	56.8	62.8
11.00-12.00	60.2	50.2	55.6
12.00-13.00	64.2	51.2	59.3
13.00-14.00	64.5	53.2	60.8
14.00-15.00	62.9	51.3	59.7
15.00-16.00	64.5	60.8	62.7
16.00-17.00	63.5	52.3	58.6
17.00-18.00	64.1	52.3	55.7
18.00-19.00	62.3	48.9	53.5
19.00-20.00	64.0	49.0	57.9
20.00-21.00	63.4	58.6	60.5
21.00-22.00	63.5	51.2	58.7
22.00-23.00	58.9	48.6	53.6
23.00-00.00	59.6	50.3	53.6
00.00-01.00	61.8	48.9	52.7
01.00-02.00	59.8	47.9	52.1
02.00-03.00	53.2	46.7	49.4
03.00-04.00	51.8	47.8	49.7
04.00-05.00	53.8	48.5	50.5
05.00-06.00	54.2	47.6	51.8

Leq dB Day Time	Leq dB Night Time	Average dB
60.7	53.6	56.3

Report Prepared By:

C.Sahoo

for Qualissure Laboratory Services
Reviewed & Authorized By

Benimadhab Gorai, Chemist
(Authorized Signatory)



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TEST REPORT

Name & Address Of the Customer :	Report No. : QLS/P-29/23-24/C/36A
M/s. Orrisa Alloy Steel Pvt Limited.	Date : 15.04.2024
NH-6, Shyampur,	Sample No. : QLS/P-29/23-24/36A
Gokulpur , Kharagpur	Date Of Performance : 27.03.2024-30.03.2024
West Medinipur -721304	Sample Description : Noise Monitoring
	Ref No. & Dated : A124379587. 26.03.2024

Monitoring Result of Noise

Sampling Done By: C.Sahoo			
Sampling Guideline : As per IS: 9876: 1981 (RA-2001)			
Location : Ferro Alloy Plant Area			
Date of Monitoring : 25.03.2024			
Time	Lmax dB (A)	Lmin dB (A)	Avg. dB (A)
06.00-07.00	52.5	50.5	51.5
07.00-08.00	57.5	51.7	54.6
08.00-09.00	57.5	54.6	56.4
09.00-10.00	60.1	50.2	56.7
10.00-11.00	65.2	51.3	60.5
11.00-12.00	62.5	49.8	58.5
12.00-13.00	63.8	52.3	56.7
13.00-14.00	62.3	50.2	56.6
14.00-15.00	57.8	50.3	54.2
15.00-16.00	62.3	56.2	58.9
16.00-17.00	64.5	55.2	61.4
17.00-18.00	63.5	50.2	57.1
18.00-19.00	63.2	53.0	59.9
19.00-20.00	58.9	50.2	54.7
20.00-21.00	59.5	50.2	54.2
21.00-22.00	59.8	56.5	57.9
22.00-23.00	58.7	52.5	55.7
23.00-00.00	57.6	51.2	54.4
00.00-01.00	55.0	49.8	52.5
01.00-02.00	54.2	50.7	51.8
02.00-03.00	49.6	42.1	47.7
03.00-04.00	50.8	47.0	48.8
04.00-05.00	52.8	47.5	49.2
05.00-06.00	51.2	44.7	47.1

Leq dB Day Time	Leq dB Night Time	Average dB
59.0	51.4	54.9

Report Prepared By:

Raidkar

for Qualissure Laboratory Services
 Reviewed & Authorized By

Benimadhab Gorai, Chemist
 (Authorized Signatory)



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

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TEST REPORT

Name & Address Of the Customer : M/s. Orrisa Alloy Steel Pvt Limited. NH-6, Shyamraipur, Gokulpur , Kharagpur West Medinipur -721304	Report No.	: QLS/P-29/23-24/C/36B
	Date	: 15.04.2024
	Sample No.	: QLS/P-29/23-24/36B
	Date Of Performance	: 27.03.2024-30.03.2024
	Sample Description	: Noise Monitoring
	Ref No.& Dated	: A124379587, 26.03.2024

Monitoring Result of Noise

Sampling Done By: C.Sahoo			
Sampling Guideline : As per IS: 9876: 1981 (RA-2001)			
Location : DRI & Pellet Plant			
Date of Monitoring : 25.03.2024			
Time	Lmax dB (A)	Lmin dB (A)	Avg. dB (A)
06.00-07.00	54.1	50.2	51.7
07.00-08.00	57.6	52.9	55.2
08.00-09.00	59.2	55.0	57.8
09.00-10.00	63.0	50.4	58.2
10.00-11.00	65.7	55.2	61.6
11.00-12.00	69.0	50.2	60.1
12.00-13.00	63.2	53.6	60.6
13.00-14.00	62.5	51.2	57.8
14.00-15.00	62.3	51.2	56.5
15.00-16.00	61.2	50.2	54.0
16.00-17.00	63.2	50.2	54.5
17.00-18.00	60.2	49.5	53.1
18.00-19.00	61.2	50.2	54.0
19.00-20.00	55.3	50.3	53.0
20.00-21.00	53.2	51.2	52.3
21.00-22.00	53.2	48.9	51.2
22.00-23.00	55.0	48.5	51.2
23.00-00.00	54.2	48.5	51.5
00.00-01.00	51.6	49.6	50.3
01.00-02.00	52.0	47.5	49.7
02.00-03.00	50.5	48.5	49.7
03.00-04.00	51.0	46.6	48.3
04.00-05.00	48.5	45.5	46.8
05.00-06.00	47.6	43.0	45.3

Leq dB Day Time	Leq dB Night Time	Average dB
58.7	49.5	53.5

Report Prepared By:

C.Sahoo

for Qualissure Laboratory Services
 Reviewed & Authorized By

Benimadhab Gorai, Chemist
 (Authorized Signatory)



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

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TEST REPORT

Name & Address Of the Customer : M/s. Orrisa Alloy Steel Pvt Limited. NH-6, Shyamraipur, Gokulpur , Kharagpur West Medinipur -721304	Report No.	: QLS/P-29/23-24/C/36C
	Date	: 15.04.2024
	Sample No.	: QLS/P-29/23-24/36C
	Date Of Performance	: 27.03.2024-30.03.2024
	Sample Description	: Noise Monitoring
	Ref No. & Dated	: A124379587, 26.03.2024

Monitoring Result of Noise

Sampling Done By: C.Sahoo			
Sampling Guideline : As per IS: 9876: 1981 (RA-2001)			
Location : Railway Siding			
Date of Monitoring : 25.03.2024			
Time	Lmax dB (A)	Lmin dB (A)	Avg. dB (A)
06.00-07.00	51.8	49.0	50.2
07.00-08.00	56.0	49.8	53.6
08.00-09.00	59.8	50.2	56.9
09.00-10.00	64.5	51.2	60.4
10.00-11.00	67.2	50.3	61.1
11.00-12.00	67.5	50.2	60.4
12.00-13.00	59.8	51.2	57.2
13.00-14.00	63.0	50.3	55.9
14.00-15.00	65.7	52.3	59.7
15.00-16.00	64.2	48.9	56.9
16.00-17.00	65.5	51.2	60.6
17.00-18.00	64.5	52.3	57.9
18.00-19.00	65.3	53.0	61.0
19.00-20.00	63.3	51.2	59.5
20.00-21.00	61.3	50.3	58.3
21.00-22.00	63.3	48.9	57.7
22.00-23.00	60.2	49.5	55.6
23.00-00.00	61.2	50.3	55.7
00.00-01.00	60.2	49.8	54.8
01.00-02.00	58.6	47.8	51.7
02.00-03.00	53.0	48.0	50.3
03.00-04.00	55.2	48.5	50.9
04.00-05.00	50.7	47.6	48.6
05.00-06.00	54.2	46.5	49.3

Leq dB Day Time	Leq dB Night Time	Average dB
61.0	54.0	56.0

Report Prepared By:

Signature

for Qualissure Laboratory Services
Reviewed & Authorized By

Benimadhab Gorai, Chemist
(Authorized Signatory)



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

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TEST REPORT

Name & Address Of the Customer : M/s. Orrisa Alloy Steel Pvt Limited. NH-6, Shyamraipur, Gokulpur , Kharagpur West Medinipur -721304	Report No.	: QLS/P-29/23-24/C/36E
	Date	: 15.04.2024
	Sample No.	: QLS/P-29/23-24/36E
	Date Of Performance	: 27.03.2024-30.03.2024
	Sample Description	: Noise Monitoring
	Ref No. & Dated	: A124379587, 26.03.2024

Monitoring Result of Noise

Sampling Done By: C.Sahoo			
Sampling Guideline : As per IS: 9876: 1981 (RA-2001)			
Location : Coke Oven Plant Area			
Date of Monitoring : 25.03.2024			
Time	Lmax dB (A)	Lmin dB (A)	Avg. dB (A)
06.00-07.00	49.5	48.1	49.1
07.00-08.00	54.5	49.5	51.9
08.00-09.00	59.2	48.9	55.3
09.00-10.00	63.2	51.2	58.3
10.00-11.00	65.7	52.3	61.1
11.00-12.00	62.3	52.3	56.8
12.00-13.00	64.5	51.2	57.9
13.00-14.00	66.1	53.2	60.9
14.00-15.00	64.8	52.3	58.0
15.00-16.00	64.1	59.6	61.1
16.00-17.00	60.3	51.2	57.6
17.00-18.00	64.5	55.4	59.8
18.00-19.00	58.2	50.3	53.0
19.00-20.00	60.5	54.2	57.6
20.00-21.00	62.3	50.2	55.3
21.00-22.00	61.2	48.9	55.9
22.00-23.00	64.0	49.0	56.6
23.00-00.00	55.1	49.8	52.5
00.00-01.00	58.9	47.9	52.9
01.00-02.00	51.7	46.8	50.1
02.00-03.00	50.6	47.8	49.5
03.00-04.00	53.2	48.6	50.3
04.00-05.00	50.2	40.5	47.0
05.00-06.00	54.6	47.8	50.0

Leq dB Day Time	Leq dB Night Time	Average dB
59.7	51.6	54.9

Report Prepared By:

Basit

for Qualissure Laboratory Services

Reviewed & Authorized By

Benimadhab Gorai, Chemist
(Authorized Signatory)



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TEST REPORT

Name & Address Of the Customer : M/s. Orrisa Alloy Steel Pvt Limited. NH-6, Shyamraipur, Gokulpur , Kharagpur West Medinipur -721304	Report No.	: QLS/P-29/23-24/C/36F
	Date	: 15.04.2024
	Sample No.	: QLS/P-29/23-24/36F
	Date Of Performance	: 27.03.2024-30.03.2024
	Sample Description	: Noise Monitoring
	Ref No. & Dated	: A124379587, 26.03.2024

Monitoring Result of Noise

Sampling Done By: C.Sahoo			
Sampling Guideline : As per IS: 9876: 1981 (RA-2001)			
Location : SMS Area			
Date of Monitoring : 25.03.2024			
Time	Lmax dB (A)	Lmin dB (A)	Avg. dB (A)
06.00-07.00	51.0	47.2	49.2
07.00-08.00	53.9	48.7	52.2
08.00-09.00	59.2	51.2	55.9
09.00-10.00	63.2	48.9	57.8
10.00-11.00	65.7	50.2	60.6
11.00-12.00	69.5	51.2	61.9
12.00-13.00	62.3	53.2	59.8
13.00-14.00	61.8	51.2	57.4
14.00-15.00	64.8	52.3	59.0
15.00-16.00	64.1	51.2	57.5
16.00-17.00	64.2	53.6	58.7
17.00-18.00	62.3	50.2	58.4
18.00-19.00	59.7	54.6	56.9
19.00-20.00	60.5	49.8	55.3
20.00-21.00	60.3	51.2	56.1
21.00-22.00	62.8	51.2	56.5
22.00-23.00	62.3	50.2	56.2
23.00-00.00	55.1	48.9	52.0
00.00-01.00	58.9	49.0	53.7
01.00-02.00	51.7	47.5	50.3
02.00-03.00	50.6	46.5	48.9
03.00-04.00	49.9	45.6	48.4
04.00-05.00	48.9	45.5	47.1
05.00-06.00	52.3	47.5	49.3

Leq dB Day Time	Leq dB Night Time	Average dB
60.2	51.2	55.0

Report Prepared By:

for Qualissure Laboratory Services
Reviewed & Authorized By

Benimadhab Gorai, Chemist
(Authorized Signatory)



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TEST REPORT

Name & Address Of the Customer: M/s. Orissa Alloy Steel Pvt Limited. Address: Vill- Gokulpur, P.O- Shyamraipur, P.S- Kharagpur (L), Paschim Medinipur- 721301, West Bengal.	Report No.	: QLS/P-29/23-24/C/37
	Date	: 15.04.2024
	Sample No.	: QLS/P-29/23-24/C/37(A-D)
	Date of Performance	: 22.03.2023-27.03.2024
	Sample Description	: Noise Monitoring
	Ref No. & Dated	: A124379587, 26.03.2024

Analysis Result of Ambient Noise

Sampling Guideline : As per IS: 9876: 1981 (RA-2001)			
Sampling done by: C.Sahoo			
Date of Sampling : 25.03.2023-26.03.2023			
Sl. No	Sample location	Leq dB Day Time	Leq dB Night Time
37A	Near Plant Main Gate	62.2	47.6
37B	Barkola Village	54.1	43.8
37C	Jharia Village	54.4	43.5
37D	Dangar Para	54.0	42.9

Report Prepared By:

Baekkan

for Qualissure Laboratory Services
Reviewed & Authorized By

Baekkan
Benimadhab Gorai, Chemist
(Authorized Signatory)

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

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