

RASHMI GREEN HYDROGEN STEEL PRIVATE LIMITED

Address : 9, AJC Bose Road, 1st Floor, Ideal Centre, Kolkata, West Bengal, 700017

CIN : U27100WB2021PTC246718 | **PAN :** AALCR1619N | **TAN :** CALR19495A | **GSTIN :** 19AALCR1619N1ZT

Website : www.rashmigroup.com | **Email Id :** projectseamless@rashmigroup.com

Ref: RGHSPL/EC_Compliance/JUNE 24

Date: 24 .05.2024

To,

a) Regional Office,

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

b) Sub Office, Kolkata

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

Sub.: **Six Monthly (June 2024)** Compliance status report of the conditions stipulated in environmental clearance for the period of **October 2023 to March 2024** for "Proposed an Integrated Steel Plant of 3.1 million Ton per annum (Finished Steel) along with 230 MW (80 MW WHRB/TRT based + 150 MW coal based) Captive Power Plant by **M/s Rashmi Green Hydrogen Steel Private Limited**, located at Mouza – Changual (J.L. No. 360), Jethia (J.L. No. 361), Khatranga (J.L. No. 362), Gopinathpur (J.L. No. 359) and Goyalara (J.L. No. 391), P.S. – Kharagpur (Local), Dist. – Paschim Medinipur, West Bengal

Ref.: EC Identification No. EC23A008WB113189, File No. IA-J-11011/102/2022-IA-II(IND-I) dated: 07.03.2023.

Dear Sir,

With reference to the above mentioned subject, we are submitting herewith six monthly compliance status report of the conditions stipulated in Environmental clearance having EC Identification No. EC23A008WB113189 accorded vide File No. 11011/102/2022-IA-II(IND-I) dated: 07.03.2023 for "Proposed an Integrated Steel Plant of 3.1 million Ton per annum (Finished Steel) along with 230 MW (80 MW WHRB/TRT based +150 MW coal based) Captive Power Plant by M/s Rashmi Green Hydrogen Steel Private Limited., located at Mouza – Changual (J.L. No. 360), Jethia (J.L. No. 361), Khatranga (J.L. No. 362), Gopinathpur (J.L. No. 359) and Goyalara (J.L. No. 391), P.S. – Kharagpur (Local), Dist. – Paschim Medinipur, West Bengal for the period

Rashmi Green Hydrogen Steel Pvt. Ltd.

Abhishek

Director

of October 2023 to March 2024. The same have also been uploaded on parivesh portal (copy 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- RGHSPL/EC_SMC/DEC23/2023-24/01 dated 27.11.2023 on parivesh portal vide Compliance ID: 15040522 dated 27.11.2023.

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.

Hope you will find the same in order.

Thanking you.

Yours Faithfully,

For, **M/s Rashmi Green Hydrogen Steel Pvt Ltd**

Director

Authorized Signatory

CC: **The Member Secretary**, West Bengal Pollution Control Board, Parivesh Bhawan, 10A Block-LA, Sector-III, Salt Lake City, Kolkata - 700098.

Enclosures: -

1. Compliance Report for EC
2. Stack Monitoring report as Annexure-II.
3. Green Belt Development Detail as Annexure-II.
4. Copy of Ambient Air Monitoring Report as Annexure-III.
5. Copy of Fugitive Emission Report as Annexure-IV.
6. Effluent water sampling Report is enclosed as Annexure-V.
7. Ground water sampling Report is enclosed as Annexure-VI.
8. Copy of Ambient & Work Noise Monitoring Report Annexure-VII.
9. Illumination intensity monitoring report as Annexure-VIII.
10. OHS Record is enclosed as Annexure-IX.

**SIX MONTHLY COMPLIANCE STATUS REPORT OF THE
CONDITIONS STIPULATED IN ENVIRONMENTAL
CLEARANCE FOR THE PERIOD OF OCTOBER 2023 TO
MARCH 2024**

(June 1st 2024)

Project Details:

Proposed an Integrated Steel Plant of 3.1 million Ton per annum (Finished Steel) along with 230 MW (80 MW WHRB/TRT based + 150 MW coal based) Captive Power Plant at Mouza - Changual (J.L. No. 360), Jethia (J.L. No. 361), Khatranga (J.L. No. 362), Gopinathpur (J.L. No. 359) and Goyalara (J.L. No. 391), P.S. - Kharagpur (Local), Dist. - Paschim Medinipur, West Bengal

EC Details:

EC Identification No. EC23A008WB113189, File No. IA-J-11011/102/2022-IA-II(IND-I) dated: 07.03.2023

Rashmi Green Hydrogen Steel Pvt. Ltd.



Director

SUBMITTED BY

M/s RASHMI GREEN HYDROGEN STEEL PRIVATE LIMITED

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

Proposal No	IA/WB/IND1/414629/2023
Compliance ID	70075854
Compliance Number(For Tracking)	EC/COMPLIANCE/70075854/2024
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.	


Name of the Project : Proposed an Integrated Steel Plant of 3.1 million Ton per annum (Finished Steel) along with 230 MW (80MW WHRB/TRT based +150 MW coal based) Captive Power Plant by M/s Rashmi Green Hydrogen Steel Private Limited., located at Mouza – Changual (J.L. No-360), Jethia (J.L. No- 361),Khatranga (J.L. No-362), Gopinathpur (J.L. No. 359) and Goyalara (J.L. No. 391), P.S. – Kharagpur (Local), Dist. – Paschim Medinipur ,West Bengal

Clearance Letters No. Date : EC No. EC23A008WB113189; File No. IA-J-11011/102/2022-IA-II(IND-I); dated 07.03.2023

Period of Compliance Report : October 2023 to March 2024


S. No.	Specific conditions	Compliance Status
i.	The PP shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.	Agreed and noted for compliance. The project is still in construction phase. Only Seamless pipe/tube plant of capacity 3,20,000 Ton/year and Coal gasifier plant of 31,500 Cum/Hr are in operation after obtain valid CTO from WBPCB.
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.	All the environmental protection measures and safeguards proposed during construction phase & operational phase (i.e. use of movable water tanker, sweeping machine, installation of APCD etc.) are being complied.
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	The project is still in construction phase. Only Seamless pipe/tube plant of capacity 3,20,000 Ton/year and Coal gasifier plant of 31,500 Cum/Hr are in operation after obtaining valid CTO from WBPCB. Rest of the EC accorded


	<p>report shall be submitted to the IRO, MoEF&CC in this regard.</p>	<p>facilities are yet to be implemented.</p> <p>The flue gas generated from balance EC accorded project i.e. Blast Furnace, Coke Oven Plant, Sinter, ferro alloy plant will be utilized in various units like in BF, Sinter, Coke Oven Plant, Ferro Plant, power generation etc up to extent possible as proposed in EIA/EMP report. Plantation is a suitable method to sequester carbon and 33% of the plant area shall be developed under greenbelt.</p> <p>Details of carbon foot prints and carbon sequestration is already submitted to the IRO, MoEF&CC with Six Monthly EC compliance Dec-2023 issued vide file no-RGHSPL/EC_SMC/DEC23/2023-24/1 dated 27.11.2023</p>
<p>iv.</p>	<p>The nearest human settlement from the project site are Khatranga (Adjacent to plant boundary, W), Gopinathpur (2.5 km, SE), Goalara (1.2 km, NE), Radhanagar (2.5 km, NNW) and Kharagpur (7.5 km, W). Project Proponent shall prepare and implement an action plan for environmental safeguard measures to minimise the impact on the habitation of the locals. The company shall also include some of these locations in its environmental monitoring programme.</p>	<p>Agreed and noted for compliance.</p> <p>In compliance to the said condition, details are already submitted with the Half Yearly Compliance December 2023 vide ref no. RGHSPL/EC-SMC/DEC23/2023-24/01 dated 27.11.2023</p> <p>To ensure the environmental safeguards are implemented effectively regular environmental monitoring like ambient air quality, water, noise carried out on regular basis of these villages.</p>
<p>v.</p>	<p>Digra Pond (3.30 km, W), Kajla Pond (1.85 km, NW), Paiknagari pond (3.25 km, E), Changual Pond (1.45 Km, SW), Midnapore High Level Canal (4.0 km, N), Kapaleshwari Khal (4.5 Km, SE), Kangsabati River (5.0 Km, N) and Jakala Nalla (2.5 Km, NW) exists within the study area of 10 km from the project site. A robust and full proof Drainage Conservation</p>	<p>In compliance to the said condition, details are already submitted and emailed along with the Half Yearly Compliance December 2023 vide ref no. RGHSPL/EC-SMC/DEC23/2023-24/01 dated 27.11.2023</p>


	<p>scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.</p>	 <p>Photograph of drain constructed in plant The excavated top soil stacked with grass turf and used for backfilling/plantation. Topsoil used for greenbelt strengthening within the plant and its periphery, would help in restricting the impacts due to the construction activities by creating a physical barrier. The waste disposal area to be lined by impervious material. The raw material stack yard is having concrete impervious base to protect the soil below it. All stock piles will have a stable liner to avoid leaching of materials to ground water. The runoff and leachates from the raw materials stock yard and solid waste disposal yard respectively shall not be allowed to mix with storm water drainage. Provisions for garland drain around raw materials stock yard & solid waste disposal yard and catch pit is being provided to trap run off material.</p>
<p>vi.</p>	<p>ESA's such as Griffins International School – 0.45 km & Khatranga School – 0.46 are in close proximity to the project site. Environmental safeguards as per the submitted EMP Plan for environmental sensitivity area shall be implemented.</p>	<p>Agreed & noted for compliance.</p> <p>The project is still under construction phase. The details of nearby schools, villages, habitations and other environmental sensitivity area and its impact due to the proposed activities and details mitigation measures are submitted along with the Half Yearly Compliance December 2023 vide ref no. RGHSPL/EC-SMC/DEC23/2023-24/01 dated 27.11.2023</p>
<p>vii.</p>	<p>The water requirement of 11,000 m³/day, shall be met from the Surface Water (Kangsabati River) & Rainwater Harvesting Structure.</p>	<p>The industrial water requirement will be sourced from surface water (Kangsabati river), rain water harvesting pond and ground water</p>

	<p>Necessary permission from the Competent Authorities shall be obtained. PP shall explore the possibility of shifting to alternate source of water to reduce dependency on groundwater.</p>	<p>(domestic water requirement only).</p> <ul style="list-style-type: none"> ➤ Permission obtained from SWID, West Bengal for 150 KLD vides. ➤ Permission obtained by Irrigation & water Department, Govt. of W.B. for 5000 KLD surface water from Kangsabati River. ➤ Permission obtained by West Bengal Industrial Development Corporation Limited, Govt. of W.B. for 2.0 MGD surface water from Kansabati River. <p>Water Permission from Irrigation & water Department, West Bengal from Kangsabati River, and SWID, West Bengal. Permission copies submitted with the Half Yearly Compliance December 2023 vide ref no. RGHSPL/EC-SMC/DEC23/2023-24/01 dated 27.11.2023</p>
<p>viii.</p>	<p>As committed, PP shall adopt 08 nos. of Villages namely Khatranga, Chakmakrampur, Jethia, Gopinathpur, Goyalara, Kajala, Changual & Radhanagar. PP shall formulate robust village Adoption program consisting of need-based community development activities, to develop them into model villages.</p>	<p>Agreed and Will be Complied With</p> <p>M/s. Rashmi Green Hydrogen Steel Private Limited is also proposing to adopt the below mentioned 08 nos. of Villages as a part of Social welfare development based on need base assessment carried. The detail of villages are:</p> <ol style="list-style-type: none"> 1) Khatranga 2) Chakmakrampur 3) Jethia 4) Gopinathpur 5) Goyalara 6) Kajala 7) Changual & 8) Radhanagar <p>₹ 45.0 crores under the head of EMP for Social & Infrastructure development activities for implementation of the commitments made during Public Hearing & fulfilling the Need based activities as per MoEF&CC OM dated 30.09.2020 is being earmarked which</p>



		will be spent in 03 years.
ix.	Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEF&CC.	Agreed and being complied. The project is still in construction phase. Only Seamless pipe/tube plant of capacity 3,20,000 Ton/year and Coal gasifier plant of 31,500 Cum/Hr are in operation after obtain valid CTO from WBPCB. Rest of the EC accorded facilities are yet to be implemented. Latest stack emission report carried by NABL accredited laboratory for operation plant is enclosed as Annexure-I.
x.	Three tier Green Belt shall be developed in a at least 33% of total project area as per the submitted action plan 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. PP shall develop greenbelt in the form of shelter belt comprising of total of 6 rows of 2x2 m plantation with tall trees & broad leaves with thick canopy along with windshield inside the plant premises towards Khatranga (Adjacent to plant boundary, W), Gopinathpur (2.5 km, SE), Goalara (1.2 km, NE), Radhanagar (2.5 km, NNW) and Kharagpur (7.5 km, W) villages and other ESA's to act as green barrier for air pollution & noise levels. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.	Agreed and is being complied with. Thick Green belt to a width of 30 meters with a tree density of about 2500 trees/ha consisting of at least 3 tiers consisting of large trees, smaller trees and shrubs, whereas some grasses and flowering plants are grown on lawns and garden. The short trees will be planted in the first rows and the tall trees in the outer rows around the purview of the project site. Greenbelt will be developed as a green buffer for mitigating the impact towards the villages namely Khatranga towards West direction and towards North East direction of project site. The greenbelt development will be covered 35% of the project area. Around 92,075 numbers of trees which are resistant to pollutants, will be planted as per CPCB/MoEFCC, New Delhi guidelines. Till March 2024, About 85,000 numbers of trees have been planted. Details of Greenbelt are annexed as Annexure II.
xi.	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.	Agreed and being complied. Greening and paving is being carried out in parallel with implementation of

		<p>proposed project.</p>  <p>Paving of internal road and working area</p>
xii.	Solid waste utilization	
	<p>a. PP shall install a slag crusher to convert steel slag into aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in cement making.</p>	<p>Noted Project is still in construction phase. The plant will be designed to comply with the condition mentioned.</p>
	<p>b. PP shall recycle/reuse solid waste generated in the plant as far as possible.</p>	<p>Agreed and Will be complied</p>
	<p>c. Used refractories shall be recycled as far as possible.</p>	<p>Agreed and will be complied once the project comes in operation.</p>

xiii.	Sinter Plant shall be equipped with Sinter cooler waste recovery system and suitable technology for control of dioxins and furans emissions from the plant.	Agreed and will be complied Project is still in construction phase. Civil foundation erection work is in progress. Once the project comes in operation required conditions will be complied.
xiv.	Coke oven plant shall be equipped with modified wet quenching system.	Agreed & will be complied.
lxv.	Tar shall be recovered from producer gas and shall be sold to registered processors.	Agreed and will be complied once the project comes in operation.
xvi.	Following additional arrangements to control fugitive dust shall be provided:	
	a. Fog/Mist Sprinklers at all on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas.	Noted and Will be Complied. Project is still in construction phase. Bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas are yet to be implemented.
	b. Proper covered vehicle shall be used while transport of materials.	Agreed. Project proponent is following necessary precautionary step to control emission during transportation/movement of vehicles. <ul style="list-style-type: none"> • Trucks movement for transporting in fully covered way to avoid dust pollution. • Speed of the vehicles to be regulated (20 km/hr) to control the fugitive dust emission from the roads.  <p>Trucks covered with industrial grade tarpaulin during movement</p>
	c. Wheel washing mechanism shall	Agreed and Will be complied.

	be provided in entry and exit gates with complete recirculation system.	
xvii.	Blast Furnaces shall be equipped with Top Recovery Turbine (capacity more than 450 m ³), dry gas cleaning plant, stove waste heat recovery, cast house and stock house ventilation system and slag granulation facility.	Agreed and noted for compliance. Project is still in construction phase. Civil foundation erection work is in progress. Blast furnace will be equipped with Top Recovery Turbine and all other mentioned parameter will be complied.
xviii.	Secondary fume extraction system shall be installed on converters of Steel Melting Shop.	Not applicable, as no Steel melting shop (Induction furnace) is proposed to be installed.
xix.	Basic Oxygen Furnace (BOF) gas shall be cleaned dry	Agreed and will be complied. Project is under construction phase. The plant will be designed to comply with the condition mentioned. The said condition will be complied once the project comes in operation.
xx.	Electric Arc Furnace shall be closed type with 4 th hole extraction system.	Agreed and noted for compliance. Project is under construction phase. The plant will be designed to comply with the condition mentioned.
xxi.	85-90 % of billets shall be rolled directly in hot stage. RHF shall operate using only Light Diesel Oil or Mixed BF/CO gas/Producer gas.	Agreed and will be complied once the project comes in operation.
xxii.	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.	<p>Agreed and will be complied once the project comes in operation.</p> <p>Effluent from Process is getting treated in ETP plant and treated water is getting reused in plant process.</p>  <p style="text-align: center;">Effluent Treatment Plant</p> <p>Acid recovery plant will be installed to recover acid.</p>

xxiii.	Dust emission from all the stacks shall be less than 30 mg/Nm ³ .	Agreed and will be complied. As stated in S. No. i & ii, only Seamless pipe/tube plant of capacity 3,20,000 Ton/year and Coal gasifier plant of 31,500 Cum/Hr are in operation after obtaining valid CTO from WBPCB. Latest stack emission report carried by NABL accredited laboratory for operation plant is already enclosed as Annexure-I.
xxiv.	Air Cooled condensers shall be used in the captive power plant.	Agreed and noted for compliance. The said condition will be taken care of at the time of finalizing the plant/process design.
xxv.	During operational phase at Captive Power Plant, PP shall measure coal dust exposures and to maintain coal dust exposures within stipulated standards at coal handling areas. 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.	Agreed and will be complied once the project comes in operation.
xxvi.	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.	Agreed and noted for compliance. Construction of DIP plant not yet started. The said condition will be taken care of at the time of finalizing the plant/process design.
xxvii.	Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.	Agreed and being complied. A network of drainage system having size 0.5 m Depth x 0.5 m width will be provided to collect storm water and diverted to surface Ponds of Dimension 110 m x 205 m, 120 m X 170 m, 105 m X 85 m, 130m X 70 m, 50 m X 115 m & 20 m X 30 m . The drainage is

		<p>being constructed in the proposed plant area and connected to the rainwater harvesting pond. Rainwater harvesting structure is already implemented.</p>   <p>Photographs of the rainwater harvesting pond developed inside plant premises</p>
<p>xxviii.</p>	<p>The proposed project shall be designed as "Zero Liquid Discharge" Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. MSW waste shall be treated in digester and recovered gas shall be used in the canteen.</p>	<p>Agreed and noted for compliance.</p> <p>The project is still in construction phase. The plant is being designed as zero liquid discharge (ZLD). Treated domestic wastewater will be used for greenbelt development and dust suppression. ETP has been installed for operation seamless tube/pipe plant.</p>


Rashmi Green Hydrogen Steel Pvt. Ltd.
Abhish *8/4*

Director

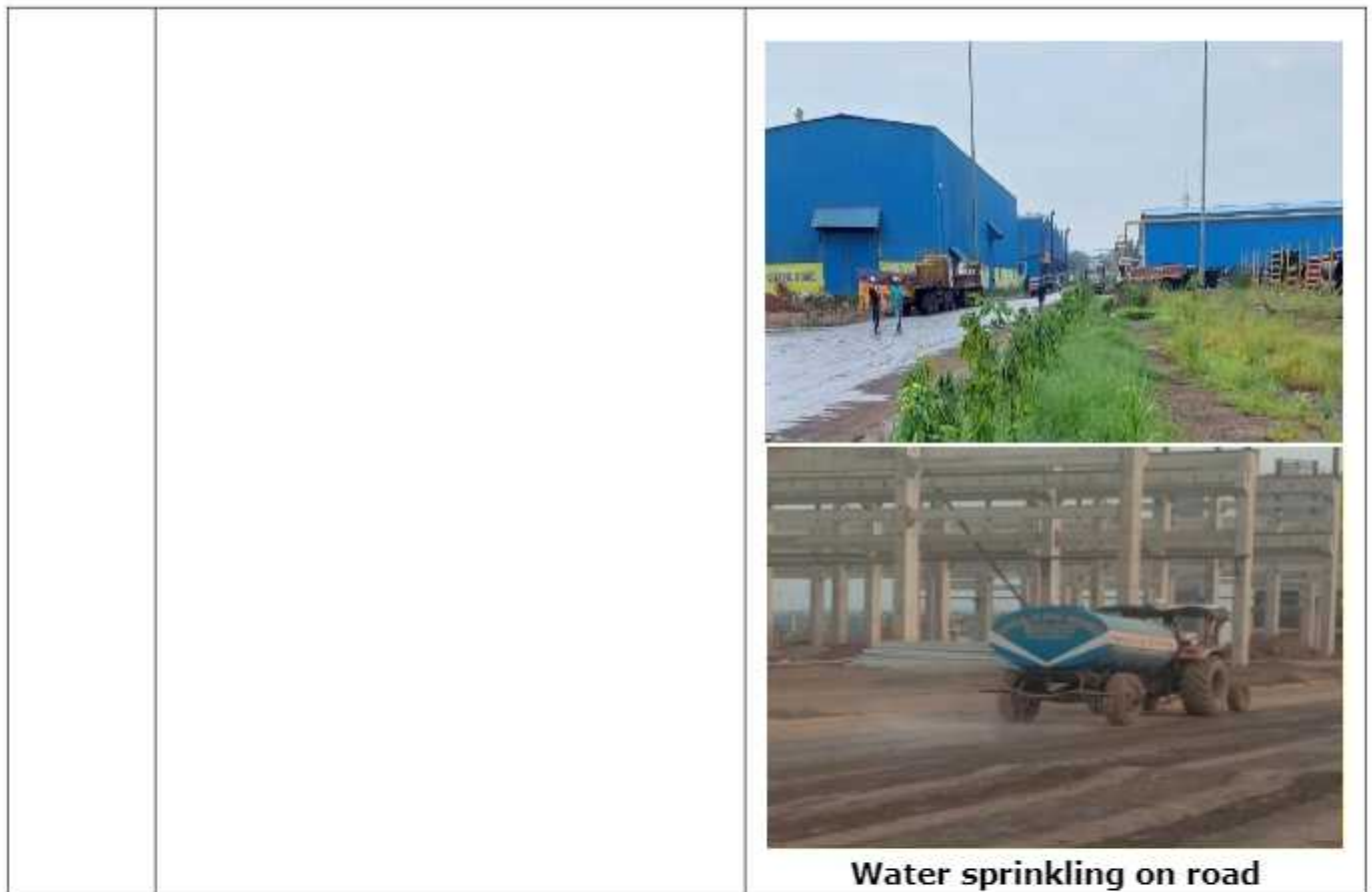
		
<p>xxix.</p>	<p>Action Plan for fire fighting system including provision for flame detectors, temperature actuated heat detectors with alarms, automatic sprinkler system, fixing the location of fire water tanks, separate power system for fire fighting, involvement of qualified and trained fire personnel, nearest fire station & time required to reach the proposed site shall be prepared and implemented.</p>	<p style="text-align: center;">Photographs of ETP</p> <p>Agreed and noted for compliance. Action plan submitted to the Fire and Emergency Services, Government of West Bengal. Office of The Director General, West Bengal Fire & Emergency Services, Government of West Bengal vide Memo no. :FSR/0125186231500106 Date: 07-09-2023 has approved the action plan.</p> <p>The same shall be implemented as per recommendation of Office Of The Director General, West Bengal Fire & Emergency Services, Government Of West Bengal.</p> 

Rashmi Green Hydrogen Steel Pvt. Ltd.
Abhishek

Director



		 <p>Fire extinguishers installed in plant</p>
xxx.	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.	<p>Agreed and noted for compliance. Electronic wastes will be collected and given to authorized recyclers/ refurbished. Management of e-waste shall be done in line with the E-Waste (Management) Rules, 2016.</p>
xxxii.	All the commitments made to the public during the Public Hearing/Public Consultation shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.	<p>Is being complied with. All the commitments made to the public during the Public Hearing/Public Consultation and based on the social impact assessment study of the project as per the EMP is being implemented as per action plan submitted to the ministry. We had proposed ₹ 16.29 crores for the FY 2023-24 (1st Year) under EMP for social and infrastructure development. We have spent ₹ 1.1 Crores under EMP for social and infrastructure development during the period of October 2023 to March 2024.</p>
xxxiii.	The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard are available at https://cpcb.nic.in/technical-guidelines-3/ . All the project	<p>Agreed and noted for compliance. Single use plastic is banned & Posters & painting for use of Eco friendly Carry Bag has been displayed at various prominent areas for awareness of our employees, vendors & local people.</p>

	<p>proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents.</p>	
<p>xxxiii.</p>	<p>The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.</p>	<p>Agreed and noted for compliance.</p> <p>Project is under construction phase. The plant will be designed to comply with the condition mentioned.</p> <p>Dedicated water spraying tankers are being used for the suppression of fugitive emission. Greenbelt development is under process to control the fugitive emission.</p>   <p>Mechanical sweeping machine</p>



S. No.	General Conditions	Compliance Status
I.	Statutory compliance:	
	<p>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.</p>	Noted.
II.	Air quality monitoring and preservation	

<p>i.</p>	<p>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.</p>	<p>Procurement and installation of CEMS is done. CAAQMS have been already purchased and installation is under process.</p> <p>Ambient air quality monitored at five locations viz., Near Plant Main Gate & Gopinathpur Village, Jethia Village, Goyalpara Village, Kalachak Village unit by third party monitoring agency M/s Qualissure Laboratory Services, Kolkata which is NABL accredited laboratory. As per monitoring reports, emission levels are as follows:</p> <table border="1" data-bbox="826 660 1544 1025"> <thead> <tr> <th>Parameter</th> <th>Plant Main Gate</th> <th>Gopinathpur Village</th> <th>Jethia Village</th> <th>Goyalpara Village</th> <th>Kalachak Village</th> </tr> </thead> <tbody> <tr> <td>PM10 ($\mu\text{g}/\text{m}^3$)</td> <td>64.0</td> <td>45.0</td> <td>40.0</td> <td>37.0</td> <td>46.0</td> </tr> <tr> <td>PM2.5 ($\mu\text{g}/\text{m}^3$)</td> <td>32.0</td> <td>21.0</td> <td>14.0</td> <td>15.0</td> <td>23.0</td> </tr> <tr> <td>SO₂ ($\mu\text{g}/\text{m}^3$)</td> <td>5.8</td> <td>5.0</td> <td>4.2</td> <td><4.0</td> <td>4.7</td> </tr> <tr> <td>NO₂ ($\mu\text{g}/\text{m}^3$)</td> <td>25.6</td> <td>21.4</td> <td>20.1</td> <td>15.6</td> <td>18.4</td> </tr> <tr> <td>CO ($\mu\text{g}/\text{m}^3$)</td> <td>629.0</td> <td>480.0</td> <td>458.0</td> <td>435.0</td> <td>503.0</td> </tr> <tr> <td>O₃ ($\mu\text{g}/\text{m}^3$)</td> <td><19.62</td> <td><19.62</td> <td><19.62</td> <td><19.62</td> <td><19.62</td> </tr> </tbody> </table> <p>Latest Ambient Air Quality Monitoring Analysis reports carried by NABL/MoEF accredited lab are attached in as Annexure- III Monitoring Report)</p>	Parameter	Plant Main Gate	Gopinathpur Village	Jethia Village	Goyalpara Village	Kalachak Village	PM10 ($\mu\text{g}/\text{m}^3$)	64.0	45.0	40.0	37.0	46.0	PM2.5 ($\mu\text{g}/\text{m}^3$)	32.0	21.0	14.0	15.0	23.0	SO ₂ ($\mu\text{g}/\text{m}^3$)	5.8	5.0	4.2	<4.0	4.7	NO ₂ ($\mu\text{g}/\text{m}^3$)	25.6	21.4	20.1	15.6	18.4	CO ($\mu\text{g}/\text{m}^3$)	629.0	480.0	458.0	435.0	503.0	O ₃ ($\mu\text{g}/\text{m}^3$)	<19.62	<19.62	<19.62	<19.62	<19.62
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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 with.</p> <p>Fugitive Emissions have been monitored at the three locations viz., Construction Site, Truck Parking Area & Seamless Pipe Area by third party monitoring agency M/s. Qualissure Laboratory Services, Kolkata which is NABL accredited laboratory. As per monitoring reports, emission levels are as follows:</p> <table border="1" data-bbox="858 1505 1513 2020"> <thead> <tr> <th>Location</th> <th>Parameter</th> <th>Result ($\mu\text{g}/\text{m}^3$)</th> </tr> </thead> <tbody> <tr> <td rowspan="5">Seamless pipe area</td> <td>TSPM</td> <td>127.0</td> </tr> <tr> <td>RSPM</td> <td>76.0</td> </tr> <tr> <td>SO₂</td> <td>7.1</td> </tr> <tr> <td>NO₂</td> <td>26.5</td> </tr> <tr> <td>H₂SO₄</td> <td>75.3</td> </tr> <tr> <td rowspan="5">Track Parking Area</td> <td>TSPM</td> <td>183.0</td> </tr> <tr> <td>RSPM</td> <td>103.0</td> </tr> <tr> <td>SO₂</td> <td>8.0</td> </tr> <tr> <td>NO₂</td> <td>38.5</td> </tr> <tr> <td>H₂SO₄</td> <td>70.6</td> </tr> <tr> <td rowspan="5">Construction Site</td> <td>TSPM</td> <td>159.0</td> </tr> <tr> <td>RSPM</td> <td>87.0</td> </tr> <tr> <td>SO₂</td> <td>8.3</td> </tr> <tr> <td>NO₂</td> <td>32.4</td> </tr> <tr> <td>H₂SO₄</td> <td>73.2</td> </tr> </tbody> </table>	Location	Parameter	Result ($\mu\text{g}/\text{m}^3$)	Seamless pipe area	TSPM	127.0	RSPM	76.0	SO ₂	7.1	NO ₂	26.5	H ₂ SO ₄	75.3	Track Parking Area	TSPM	183.0	RSPM	103.0	SO ₂	8.0	NO ₂	38.5	H ₂ SO ₄	70.6	Construction Site	TSPM	159.0	RSPM	87.0	SO ₂	8.3	NO ₂	32.4	H ₂ SO ₄	73.2						
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		Fugitive Emissions monitoring report is enclosed as Annexure-IV .
iii.	Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions.	<p>Agreed and will be complied. Project is under construction phase. The plant will be designed to comply with the condition mentioned. Sampling facility at for operational plant stacks has been provided.</p>  <p>Photograph of the sampling facility</p>
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.	<p>Agreed and Will be Complied. As mentioned, the project is under construction phase, after obtaining valid NOC from WBPCB.</p> <p>Appropriate Air Pollution Control (APC) system is provided for some of the dust generating points including fugitive dust from all vulnerable sources, so as to comply with the prescribed stack emission and fugitive emission standards. For the rest, it will be provided as soon as the project comes into operation.</p>  <p>Photograph of the cyclone installed in</p>

		operational plant
v.	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	<p>Agreed and noted for compliance. Leakage detection and mechanized bag cleaning facilities for better maintenance of bags will be provided for under construction project.</p>
vi.	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.	<p>Agreed and Will be Complied. Dedicated water spraying tankers are being used for the suppression of fugitive emission. Greenbelt development is under process to control the fugitive emission.</p>  <p>Mechanical sweeping machine</p>  

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Abhishek Singh


Director



Water sprinkling on road

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.	Noted Fines/dust collected from APC and vacuum cleaning devices of under construction project will be handled as per EIA/EMP plan submitted while getting EC.	
viii.	The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.	Agreed. Project proponent will follow necessary precautionary step to control emission during transportation/movement of vehicles. <ul style="list-style-type: none"> • Trucks movement for transporting in fully covered way to avoid dust pollution. • Speed of the vehicles to be regulated (20 km/hr) to control the fugitive dust emission from the roads. 	<p>Trucks covered with tarpaulin during movement</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).	Noted and will be considered in design phase.	

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Abhishit

x.	Land-based APC system shall be installed to control coke pushing emissions.	Noted and will be considered in design phase.
xi.	Monitor CO, HC and O ₂ in flue gases of the coke oven battery to detect combustion efficiency and cross leakages in the combustion chamber.	Agreed and noted for compliance. CO, HC and O ₂ in flue gases of the coke oven battery will be monitored to detect combustion efficiency and cross leakages in the combustion chamber.
xii.	Vapor absorption system shall be provided in place of vapour compression system for cooling of coke oven gas in case of recovery type coke ovens.	Not applicable as non-recovery type coke oven with modified wet quenching is proposed to be installed.
xiii.	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.	The raw material stock piles are covered with industrial grade taruplin and water is sprayed by movable water mist fog cannon system. 
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); S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended	Agreed and is being complied with. The plant is being designed as Zero Liquid Discharge (ZLD) and 100% water is/will be recycled after treatment and is/will be used in process, dust suppression & green belt development. CEMS is installed at outlet of the ETP. In due course of time, server connection for data transfer to the Central Pollution Control Board will be done. Effluent quality is being monitored at ETP inlet & Outlet by third party monitoring agency M/s
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	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.	Qualissure Laboratory Services, Kolkata which is NABL accredited laboratory. Latest effluent Monitoring Analysis reports carried by NABL/MoEF accredited lab are attached in as Annexure-V .
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.	Monitoring of ground water quality carried by Qualissure Laboratory Services (NABL accredited lab.) in March 2024. Copy of the monitoring report is enclosed as Annexure-VI .
iii.	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	Agreed and noted for compliance. The project is still in construction phase. Currently domestic waste water is being treated in septic tank followed by soak pit. Installation & commissioning of Sewage Treatment Plant shall be done in parallel with implementation of proposed project.
iv.	Garland drains and collection pits shall be provided for each stock pile to arrest the run off in the event of heavy rains and to check the water pollution due to surface run off.	Agreed and noted for compliance. The project is still in construction phase.
v.	Tyre washing facilities shall be provided at the entrance of the plant gates.	Agreed and noted for compliance. The project is still in construction phase.
vi.	Water meters shall be provided at the inlet to all unit processes in the steel plants.	Project is under construction phase. Water meter has been installed in the operational plant.

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Abhishek

Director




Photograph of water flow meter

IV. Noise monitoring and prevention		
i.	Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as part of six-monthly compliance report.	Being complied with. Noise level has been monitored at work zone i.e., (Construction as well as operational plant area) by third party monitoring agency M/s Qualissure Laboratory Services, Kolkata which is a NABL accredited laboratory. Noise monitoring reports are attached as Annexure-VII .
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.	Noted and will be complied with during project implementation stage.
ii.	Restrict Gas flaring to < 1 %.	Noted and will be complied with.
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;	Agreed and will be complied with. Currently the project is under construction stage and solar internal street light is provided at potential area.
iv.	Provide LED lights in their offices and residential areas.	Agreed and will be installed.


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Director

			 <p>Photograph of the LED lights installed in plant</p> <p>Illumination intensity monitoring report is enclosed as Annexure-VIII.</p>
	v.	Ensure installation of regenerative /recuperative type burners on all reheating furnaces.	Agreed and will be complied with during project implementation stage.
VI. Waste Management			
	i.	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.
	ii.	Kitchen waste shall be composted or converted to biogas for further use.	Agreed and Is Being complied With. Kitchen waste are composted and used as manure for green belt development.
VII. Green Belt			
	i.	Green belt shall be developed in an area equal to 33% of the plant area with native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant	Agreed and is being complied with. Thick Green belt to a width of 30 meters with a tree density of about 2500 trees/ha consisting of at least 3 tiers consisting of large trees, smaller trees and shrubs, whereas some grasses and flowering plants are grown on lawns and garden. The short trees are planted in the first rows and the tall trees in the outer rows around the periphery of the project site. will be developed as a green buffer for mitigating the impact towards the villages namely Khatranga towards West direction and towards North East direction of project site.

			<p>The greenbelt development will be covered 35% of the project area i.e. about 36.83 Hectares at the project area. Around 92,075 numbers of trees which are resistant to pollutants, will be planted as per CPCB/MoEFCC, New Delhi guidelines.</p> <p>Till March-2024, 85,000 numbers of trees have been planted. Details of Greenbelt are already annexed as Annexure II.</p>
	ii.	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 in the plant premises.	<p>Already Complied With</p> <p>In compliance to the said condition, report submitted with the Half Yearly Compliance Report December 2023 vides Ref no. RGHSPL/EC_SMC/DEC23/2023-24/01 dated 27.11.2023</p>
	iii.	Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames.	Reply to the subject condition is already stated in point no. iii under Specific Conditions.
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.	<p>Already Complied With</p> <p>HIRA report and Disaster Management Plan have been prepared by NABET accredited consultant and copy of the same is submitted with the Half Yearly Compliance Report December 2023 vides Ref no. RGHSPL/EC_SMC/DEC23/2023-24/01 dated 27.11.2023.</p>

<p>ii.</p>	<p>The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.</p>	<p style="text-align: center;">Agreed and Being Complied With</p> <p>Plant is still under construction. Heat stress analysis will be done as per operational requirement.</p> <p>Proper PPEs are provided to the worker. Without proper PPEs no one is allowed to work inside the plant premises. Safety awareness campaigns organised inside the plant premises with the objective of demonstrating the use of PPEs in different work zone and explaining the benefit of using PPEs.</p>  <p style="text-align: center;">Photographs of tool box talk and PPEs</p>
<p>iii.</p>	<p>Occupational health surveillance of the workers</p>	<p style="text-align: center;">Being Complied.</p>

		shall be done on a regular basis and records maintained.	The occupational health surveillance of the workers employed during operation & construction phase has been done and records are maintained as per the Factories Act. The OHS Record is attached as Annexure-IX .
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.	Agreed and Will be complied.
	ii.	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/violation of the environmental/ forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/ deviation/ violation of the environmental/forest/ wildlife norms/conditions and/or shareholders/stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	Complied The company has a well laid down environmental policy duly approved by the board of directors. Copy of corporate environmental policy is already submitted with the Half Yearly Compliance Report December 2023 vides Ref no. RGHSPL/EC_SMC/DEC23/2023-24/01 dated 27.11.2023
	iii.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.	Complied. A separate Environmental Cell both at project and company head quarter is in place. Copy of corporate environmental policy is already submitted with the Half Yearly Compliance Report December 2023 vides Ref no. RGHSPL/EC_SMC/DEC23/2023-24/01 dated 27.11.2023
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.	<p>Already Complied With.</p> <p>Details for the said condition were already submitted to ministry with the Half yearly Compliance Report for the period of April 2023 to September 2023 submitted vide Ref. no. RGHSPL/EC_SMC/DEC23/2023-24/01 dated 27.11.2023</p> <p>Copy of the EC uploaded on company's website https://www.rashmiseamless.com/quality/.</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>Complied</p> <p>Details for the said condition were already submitted to ministry with the Half yearly Compliance Report for the period of April 2023 to September 2023 submitted vide Ref. no. RGHSPL/EC_SMC/DEC23/2023-24/01 dated 27.11.2023</p>
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.	<p>Is being complied with.</p> <p>In respect to the said condition, this Half Yearly Compliance reported is being submitted. Copy of the last half yearly compliance report has been uploaded on company's website https://www.rashmiseamless.com/quality/ and is also regularly updated.</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>Is being complied with.</p> <p>Copy of the half yearly compliance report along with monitoring report has been uploaded on company's website https://www.rashmiseamless.com/quality/ and regularly updated. Display board is installed at main gate of the company in parallel with implementation of the project. The picture is given below.</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.	Is being complied with.	The last compliance report for the period April 2023 to September 2023 has been submitted to ministry vide letter no. RGHSPL/EC_SMC/DEC2023/2023-24/01 dated 27.11.2023
vi.	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	Agreed and will be complied.	The project is still under construction phase. Consent to operate for Seamless pipe/tube plant of capacity 3,20,000 Ton/year and Coal gasifier plant of 31,500 Cum/Hr obtained from WBPCB on 16.05.2023. Form-V will be submitted from the current financial year i.e. 2023-24 and will be uploaded on company's website.
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.	Noted	The company is a private company and no finance is needed from outside. Land development work has been started after getting NOC from WBPCB.
viii.	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report,	Agreed and Noted for compliance.	

Rashmi Green Hydrogen Steel Pvt. Ltd.

Abhishek

		commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	
	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.
	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.	Agreed and is being complied with.
	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 for compliance.
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	Agreed and Noted for compliance.

Rashmi Green Hydrogen Steel Pvt. Ltd.


		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.	
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.	Noted.

Rashmi Green Hydrogen Steel Pvt. Ltd.

Abhishek Singh

Half Yearly Compliance Report

2024

01 Jun(01 Oct - 31 Mar)

Acknowledgment

Proposal Name	Proposed an Integrated Steel Plant of 3.1 Million Ton per annum (Finished Steel) along with 230MW (80MW WHRB/TRT based +150 MW coal based) Captive Power Plant		
Name of Entity / Corporate Office	RASHMI GREEN HYDROGEN STEEL PRIVATE LIMITED		
Village(s)	Changuyal		
District	MEDINIPUR WEST		
Proposal No.	IA/WB/IND1/414629/2023	Category	Industrial Projects - 1
Plot / Survey / Khasra No.	N/A	Sub-District	Kharagpur - II
State	WEST BENGAL	Entity's PAN	NA
MoEF File No.	IA-J-11011/102/2022-IA-II(IND-I)	Entity name as per PAN	NA

Compliance Reporting Details

Reporting Year	2024
Remarks (if any)	Half yearly compliance status report of the conditions stipulated in Environmental Clearance for the period of October 2023 to March 2024
Reporting Period	01 Jun(01 Oct - 31 Mar)

Details of Production and Project Area

Name of Entity / Corporate Office RASHMI GREEN HYDROGEN STEEL PRIVATE LIMITED

	Project Area as per EC Granted	Annual Project Area in Possession
Private	60.70	38.63
Revenue Land	0	0
Forest	0	0
Others	51.40	51.40
Total	112.1	90.03

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Molten Metal, Pig Iron, High Quality Billets, Slab	Million Tons per Annum (MTPA)	N/A	3.0	0	Project is yet to be implemented (CTO not yet received)
2	Iron Ore Sinter	Million Tons per Annum (MTPA)	N/A	4.0	0	Project is yet to be implemented (CTO not yet received)
3	FeSi, FeCr, FeMn, SiMn,	Million Tons per Annum (MTPA)	N/A	0.070	0	Project is yet to be implemented (CTO not yet received)
4	Metallurgical Coke	Million Tons per Annum (MTPA)	N/A	1.0	0	Project is yet to be implemented (CTO not yet received)
5	Ductile Iron, Pipe, Fitting & Accessories	Million Tons per Annum (MTPA)	N/A	0.6	0	Project is yet to be implemented (CTO not yet received)
6	H.R. Plate/Coil, Flat Products, Galvanised Product	Million Tons per Annum (MTPA)	N/A	2.0	0	Project is yet to be implemented (CTO not yet received)
7	Oxygen	Tons per Day (TPD)	N/A	600	0	Project is yet to be implemented (CTO not yet received)
8	Lime dolomite	Tons per Day (TPD)	N/A	600	0	Project is yet to be implemented (CTO not yet received)
9	Raw Material/ Finished Product Transportation	Others:No.	N/A	01	0	Project is yet to be implemented (CTO not yet received)
10	Iron Ore Pellet	Million Tons per Annum (MTPA)	N/A	1.2	0	Project is yet to be implemented (CTO not yet received)
11	Seamless Tube/ Pipe	Million Tons per Annum (MTPA)	31/03/2028	0.5	0	0.32

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	WASTE MANAGEMENT	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: Agreed to Comply Agreed and will be complied once the project comes in operation. Effluent from Process is getting treated in ETP plant and treated water is getting reused in plant process. Acid recovery plant will be installed to recover acid.		Date: 24/05/2024
2	AIR QUALITY MONITORING AND PRESERVATION	Dust emission from all the stacks shall be less than 30 mg/Nm ³ .
PPs Submission: Agreed to Comply Agreed and will be complied. As stated in S. No. i & ii, only Seamless pipe/tube plant of capacity 3,20,000 Ton/year and Coal gasifier plant of 31,500 Cum/Hr are in operation after obtaining valid CTO from WBPCB. Latest stack emission report carried by NABL accredited laboratory for operation plant is already enclosed.		Date: 24/05/2024
3	WATER QUALITY MONITORING AND PRESERVATION	Air Cooled condensers shall be used in the captive power plant.
PPs Submission: Agreed to Comply Agreed and noted for compliance. The said condition will be taken care of at the time of finalizing the plant/process design.		Date: 24/05/2024
4	MISCELLANEOUS	During operational phase at Captive Power Plant, PP shall measure coal dust exposures and to maintain coal dust exposures within stipulated standards at coal handling areas. 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 will be complied once the project comes in operation.		Date: 24/05/2024
5	MISCELLANEOUS	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: Agreed to Comply Agreed and noted for compliance. Construction of DIP plant not yet started. The said condition will be taken care of at the time of finalizing the plant/process design.		Date: 24/05/2024
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.

	<p>PPs Submission: Agreed to Comply Agreed and being complied. A network of drainage system having size 0.5 m Depth × 0.5 m width will be provided to collect storm water and diverted to surface Ponds of Dimension 110 m x 205 m, 120 m X 170 m, 105 m X 85 m, 130m X 70 m, 50 m X 115 m & 20 m X 30 m . The drainage is being constructed in the proposed plant area and connected to the rainwater harvesting pond. Rainwater harvesting structure is already implemented.</p>	Date: 24/05/2024
7	WASTE MANAGEMENT	The proposed project shall be designed as "Zero Liquid Discharge" Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. MSW waste shall be treated in digester and recovered gas shall be used in the canteen.
	<p>PPs Submission: Agreed to Comply Agreed and noted for compliance. The project is still in construction phase. The plant is being designed as zero liquid discharge (ZLD). Treated domestic wastewater will be used for greenbelt development and dust suppression. ETP has been installed for operation seamless tube/pipe plant.</p>	Date: 24/05/2024
8	Risk Mitigation and Disaster Management	Action Plan for fire fighting system including provision for flame detectors, temperature actuated heat detectors with alarms, automatic sprinkler system, fixing the location of fire water tanks, separate power system for fire fighting, involvement of qualified and trained fire personnel, nearest fire station & time required to reach the proposed site shall be prepared and implemented.
	<p>PPs Submission: Agreed to Comply Agreed and noted for compliance. Action plan submitted to the Fire and Emergency Services, Government of West Bengal. Office of The Director General, West Bengal Fire & Emergency Services, Government of West Bengal vide Memo no. :FSR/ 0125186231500106 Date: 07-09-2023 has approved the action plan. The same shall be implemented as per recommendation of Office Of The Director General, West Bengal Fire & Emergency Services, Government Of West Bengal.</p>	Date: 24/05/2024
9	WASTE MANAGEMENT	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.
	<p>PPs Submission: Agreed to Comply Agreed and noted for compliance. Electronic wastes will be collected and given to authorized recyclers/ refurbished. Management of e-waste shall be done in line with the E-Waste (Management) Rules, 2016.</p>	Date: 24/05/2024
10	PUBLIC HEARING	All the commitments made to the public during the Public Hearing/Public Consultation shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.
	<p>PPs Submission: Being Complied All the commitments made to the public during the Public Hearing/Public Consultation and based on the social impact assessment study of the project as per the EMP is being implemented as per action plan submitted to the ministry. We had proposed ₹ 16.29 crores for the FY 2023-24 (1st Year) under EMP for social and infrastructure development. We have spent ₹ 1.1 Crores under EMP for social and infrastructure development during the period of October 2023 to March 2024.</p>	Date: 24/05/2024
11	Statutory compliance	The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control

		Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at https://cpcb.nic.in/technical-guidelines-3/ . All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents.
PPs Submission: Agreed to Comply Agreed and noted for compliance. Single use plastic is banned & Posters & painting for use of Eco friendly Carry Bag has been displayed at various prominent areas for awareness of our employees, vendors & local people.		Date: 24/05/2024
12	AIR QUALITY MONITORING AND PRESERVATION	The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.
PPs Submission: Agreed to Comply Agreed and noted for compliance. Project is under construction phase. The plant will be designed to comply with the condition mentioned. Dedicated water spraying tankers are being used for the suppression of fugitive emission. Greenbelt development is under process to control the fugitive emission.		Date: 24/05/2024
13	Statutory compliance	The PP shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
PPs Submission: Agreed to Comply Agreed and noted for compliance. The project is still in construction phase. Only Seamless pipe/tube plant of capacity 3,20,000 Ton/year and Coal gasifier plant of 31,500 Cum/Hr are in operation after obtain valid CTO from WBPCB. All the environmental protection measures and safeguards proposed during construction phase & operational phase (i.e. use of movable water tanker, sweeping machine, installation of APCD etc.) are being complied.		Date: 24/05/2024
14	Statutory compliance	The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
PPs Submission: Agreed to Comply Agreed and noted for compliance. The project is still in construction phase. Only Seamless pipe/tube plant of capacity 3,20,000 Ton/year and Coal gasifier plant of 31,500 Cum/Hr are in operation after obtain valid CTO from WBPCB. All the environmental protection measures and safeguards proposed during construction phase & operational phase (i.e. use of movable water tanker, sweeping machine, installation of APCD etc.) are being complied.		Date: 24/05/2024
15	MISCELLANEOUS	The project proponent shall utilize modern technologies for

		capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.	
		<p>PPs Submission: Agreed to Comply The project is still in construction phase. Only Seamless pipe/tube plant of capacity 3,20,000 Ton/year and Coal gasifier plant of 31,500 Cum/Hr are in operation after obtaining valid CTO from WBPCB. Rest of the EC accorded facilities are yet to be implemented. The flue gas generated from balance EC accorded project i.e. Blast Furnace, Coke Oven Plant, Sinter, ferro alloy plant will be utilized in various units like in BF, Sinter, Coke Oven Plant, Ferro Plant, power generation etc up to extent possible as proposed in EIA/EMP report. Plantation is a suitable method to sequester carbon and 33% of the plant area shall be developed under greenbelt. Details of carbon foot prints and carbon sequestration is already submitted to the IRO, MoEF&CC with Six Monthly EC compliance Dec-2023 issued vide file no-RGHSPL/EC_SMC/DEC23/2023-24/1 dated 27.11.2023</p>	Date: 24/05/2024
16	Human Health Environment	The nearest human settlement from the project site are Khatranga (Adjacent to plant boundary, W), Gopinathpur (2.5 km, SE), Goalara (1.2 km, NE), Radhanagar (2.5 km, NNW) and Kharagpur (7.5 km, W). Project Proponent shall prepare and implement an action plan for environmental safeguard measures to minimise the impact on the habitation of the locals. The company shall also include some of these locations in its environmental monitoring programme.	
		<p>PPs Submission: Agreed to Comply Agreed and noted for compliance. In compliance to the said condition, details are already submitted with the Half Yearly Compliance December 2023 vide ref no. RGHSPL/EC-SMC/DEC23/2023-24/01 dated 27.11.2023 To ensure the environmental safeguards are implemented effectively regular environmental monitoring like ambient air quality, water, noise carried out on regular basis of these villages.</p>	Date: 24/05/2024
17	MISCELLANEOUS	Digra Pond (3.30 km, W), Kajla Pond (1.85 km, NW), Paiknagari pond (3.25 km, E), Changual Pond (1.45 Km, SW), Midnapore High Level Canal (4.0 km, N), Kapaleshwari Khal (4.5 Km, SE), Kangsabati River (5.0 Km, N) and Jakala Nalla (2.5 Km, NW) exists within the study area of 10 km from the project site. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.	
		<p>PPs Submission: Agreed to Comply In compliance to the said condition, details are already submitted and emailed along with the Half Yearly Compliance December 2023 vide ref no. RGHSPL/EC-SMC/DEC23/2023-24/01 dated 27.11.2023 The excavated top soil stacked with grass turf and used for backfilling/plantation. Topsoil used for greenbelt strengthening within the plant and its periphery, would help in restricting the impacts due to the construction activities by creating a physical barrier. The waste disposal area to be lined by impervious material. The raw material stack yard is having concrete impervious base to protect the soil below it. All stock piles will have a stable liner to avoid leaching of materials to ground water. The runoff and leachates from the raw materials stock yard and solid waste disposal yard respectively shall not be allowed to mix with storm water drainage. Provisions for garland drain around raw materials stock yard & solid waste disposal yard and catch pit is being provided to trap run off material.</p>	Date: 24/05/2024
18	Human Health Environment	ESA's such as Griffins International School – 0.45 km & Khatranga School – 0.46 are in close proximity to the project site. Environmental safeguards as per the submitted EMP Plan for environmental sensitivity area shall be implemented.	
		<p>PPs Submission: Agreed to Comply Agreed & noted for compliance. The project is still under construction phase. The details of nearby</p>	Date: 24/05/2024

schools, villages, habitations and other environmental sensitivity area and its impact due to the proposed activities and details mitigation measures are submitted along with the Half Yearly Compliance December 2023 vide ref no. RGHSPL/EC-SMC/DEC23/2023-24/01 dated 27.11.2023		
19	WATER QUALITY MONITORING AND PRESERVATION	The water requirement of 11,000 m ³ /day, shall be met from the Surface Water (Kangsabati River) & Rainwater Harvesting Structure. Necessary permission from the Competent Authorities shall be obtained. PP shall explore the possibility of shifting to alternate source of water to reduce dependency on groundwater.
PPs Submission: Agreed to Comply The industrial water requirement will be sourced from surface water (Kangsabati river), rain water harvesting pond and ground water (domestic water requirement only). Permission obtained from SWID, West Bengal for 150 KLD vides. Permission obtained by Irrigation & water Department, Govt. of W.B. for 5000 KLD surface water from Kangsabati River. Permission obtained by West Bengal Industrial Development Corporation Limited, Govt. of W.B. for 2.0 MGD surface water from Kansabati River. Water Permission from Irrigation & water Department, West Bengal from Kangsabati River, and SWID, West Bengal. Permission copies submitted with the Half Yearly Compliance December 2023 vide ref no. RGHSPL/EC-SMC/DEC23/2023-24/01 dated 27.11.2023		Date: 24/05/2024
20	Corporate Environmental Responsibility	As committed, PP shall adopt 08 nos. of Villages namely Khatranga, Chakmakrampur, Jethia, Gopinathpur, Goyalara, Kajala, Changual & Radhanagar. PP shall formulate robust village Adoption program consisting of need-based community development activities, to develop them into model villages.
PPs Submission: Agreed to Comply Agreed and Will be Complied With M/s. Rashmi Green Hydrogen Steel Private Limited is also proposing to adopt the below mentioned 08 nos. of Villages as a part of Social welfare development based on need base assessment carried. The detail of villages are: 1) Khatranga 2) Chakmakrampur 3) Jethia 4) Gopinathpur 5) Goyalara 6) Kajala 7) Changual & 8) Radhanagar ₹ 45.0 crores under the head of EMP for Social & Infrastructure development activities for implementation of the commitments made during Public Hearing & fulfilling the Need based activities as per MoEF&CC OM dated 30.09.2020 is being earmarked which will be spent in 03 years.		Date: 24/05/2024
21	Statutory compliance	Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEF&CC.
PPs Submission: Being Complied The project is still in construction phase. Only Seamless pipe/tube plant of capacity 3,20,000 Ton/year and Coal gasifier plant of 31,500 Cum/Hr are in operation after obtain valid CTO from WBPCB. Rest of the EC accorded facilities are yet to be implemented. Latest stack emission report carried by NABL accredited laboratory for operation plant is enclosed.		Date: 24/05/2024
22	GREENBELT	Three tier Green Belt shall be developed in a atleast 33% of total project area as per the asubmitted action plan 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. PP shall develop greenbelt in the form of shelter belt comprising of total of 6 rows of 2x2 m plantation with tall trees & broad leaves with thick canopy along with windshield inside the plant premises towards Khatranga (Adjacent to plant boundary, W), Gopinathpur (2.5 km, SE), Goalara (1.2 km, NE), Radhanagar (2.5 km, NNW) and Kharagpur (7.5 km, W) villages and other ESA's to act as green barrier for air pollution & noise levels. Compliance status in this regard, shall be submitted to concerned Regional Office of the

		MoEF&CC.	
		<p>PPs Submission: Being Complied Thick Green belt to a width of 30 meters with a tree density of about 2500 trees/ha consisting of at least 3 tiers consisting of large trees, smaller trees and shrubs, whereas some grasses and flowering plants are grown on lawns and garden. The short trees will be planted in the first rows and the tall trees in the outer rows around the purview of the project site. Greenbelt will be developed as a green buffer for mitigating the impact towards the villages namely Khatranga towards West direction and towards North East direction of project site. The greenbelt development will be covered 35% of the project area. Around 92,075 numbers of trees which are resistant to pollutants, will be planted as per CPCB/MoEFCC, New Delhi guidelines. Till March 2024, About 85,000 numbers of trees have been planted. Details of Greenbelt are enclosed.</p>	<p>Date: 24/05/2024</p>
23	MISCELLANEOUS	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.	
		<p>PPs Submission: Being Complied Greening and paving is being carried out in parallel with implementation of proposed project.</p>	<p>Date: 24/05/2024</p>
24	WASTE MANAGEMENT	Solid waste utilization a. PP shall install a slag crusher to convert steel slag into aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in cement making. b. PP shall recycle/reuse solid waste generated in the plant as far as possible. c. Used refractories shall be recycled as far as possible.	
		<p>PPs Submission: Agreed to Comply Noted Project is still in construction phase. The plant will be designed to comply with the condition mentioned.</p>	<p>Date: 24/05/2024</p>
25	WASTE MANAGEMENT	Sinter Plant shall be equipped with Sinter cooler waste recovery system and suitable technology for control of dioxins and furans emissions from the plant.	
		<p>PPs Submission: Agreed to Comply Project is still in construction phase. Civil foundation erection work is in progress. Once the project comes in operation required conditions will be complied.</p>	<p>Date: 24/05/2024</p>
26	MISCELLANEOUS	Coke oven plant shall be equipped with modified wet quenching system.	
		<p>PPs Submission: Agreed to Comply Agreed & will be complied.</p>	<p>Date: 24/05/2024</p>
27	WASTE MANAGEMENT	Tar shall be recovered from producer gas and shall be sold to registered processors.	
		<p>PPs Submission: Agreed to Comply Agreed and will be complied once the project comes in operation.</p>	<p>Date: 24/05/2024</p>
28	AIR QUALITY MONITORING AND PRESERVATION	Following additional arrangements to control fugitive dust shall be provided: a. Fog / Mist Sprinklers at all on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas. b. Proper covered vehicle shall be used while transport of materials. c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.	

<p>PPs Submission: Agreed to Comply a. Noted and Will be Complied. Project is still in construction phase. Bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas re yet to be implemented. b. Agreed. Project proponent is following necessary precautionary step to control emission during transportation/movement of vehicles. Trucks movement for transporting in fully covered way to avoid dust pollution. Speed of the vehicles to be regulated (20 km/hr) to control the fugitive dust emission from the roads. c. Agreed and Will be complied.</p>		Date: 24/05/2024
29	MISCELLANEOUS	Blast Furnaces shall be equipped with Top Recovery Turbine (capacity more than 450 m ³), dry gas cleaning plant, stove waste heat recovery, cast house and stock house ventilation system and slag granulation facility.
<p>PPs Submission: Agreed to Comply Agreed and noted for compliance. Project is still in construction phase. Civil foundation erection work is in progress. Blast furnace will be equipped with Top Recovery Turbine and all other mentioned parameter will be complied.</p>		Date: 24/05/2024
30	MISCELLANEOUS	Secondary fume extraction system shall be installed on converters of Steel Melting Shop.
<p>PPs Submission: Not Complied Not applicable, as no Steel melting shop (Induction furnace) is proposed to be installed.</p>		Date: 24/05/2024
31	MISCELLANEOUS	Basic Oxygen Furnace (BOF) gas shall be cleaned dry.
<p>PPs Submission: Agreed to Comply Agreed and will be complied. Project is under construction phase. The plant will be designed to comply with the condition mentioned. The said condition will be complied once the project comes in operation.</p>		Date: 24/05/2024
32	MISCELLANEOUS	Electric Arc Furnace shall be closed type with 4th hole extraction system.
<p>PPs Submission: Agreed to Comply Agreed and noted for compliance. Project is under construction phase. The plant will be designed to comply with the condition mentioned.</p>		Date: 24/05/2024
33	MISCELLANEOUS	85-90 % of billets shall be rolled directly in hot stage. RHF shall operate using only Light Diesel Oil or Mixed BF/CO gas/Producer gas.
<p>PPs Submission: Agreed to Comply Agreed and will be complied once the project comes in operation.</p>		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: Being Complied Noted.		Date: 24/05/2024
2	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 Procurement and installation of CEMS is done. CAAQMS have been already purchased and installation is under process. Ambient air quality monitored at five locations viz., Near Plant Main Gate & Gopinathpur Village, Jethia Village, Goyalpara Village, Kalachak Village unit by third party monitoring agency M/s Qualissure Laboratory Services, Kolkata which is NABL accredited laboratory. Latest Ambient Air Quality Monitoring Analysis reports carried by NABL/MoEF accredited lab are attached in as Annexure- III Monitoring Report.		Date: 24/05/2024
3	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: Agreed to Comply Project proponent will follow necessary precautionary step to control emission during transportation/movement of vehicles. Trucks movement for transporting in fully covered way to avoid dust pollution. Speed of the vehicles to be regulated (20 km/hr) to control the fugitive dust emission from the roads.		Date: 24/05/2024
4	AIR QUALITY MONITORING AND PRESERVATION	Facilities for spillage collection shall be provided for coal and coke on wharf of coke oven batteries (Chain conveyors, land based industrial vacuum cleaning facility).
PPs Submission: Agreed to Comply Noted and will be considered in design phase.		Date: 24/05/2024
5	AIR QUALITY MONITORING AND PRESERVATION	Land-based APC system shall be installed to control coke pushing emissions.
PPs Submission: Agreed to Comply Noted and will be considered in design phase.		Date: 24/05/2024
6	AIR QUALITY MONITORING AND PRESERVATION	Monitor CO, HC and O2 in flue gases of the coke oven battery to detect combustion efficiency and cross leakages in the combustion chamber.
PPs Submission: Agreed to Comply Agreed and noted for compliance. CO, HC and O2 in flue gases of the coke oven battery will be monitored to detect combustion efficiency and cross leakages in the combustion chamber.		Date: 24/05/2024
7	AIR QUALITY MONITORING AND PRESERVATION	Vapor absorption system shall be provided in place of vapour compression system for cooling of coke oven gas in case of recovery type coke ovens.

<p>PPs Submission: Not Complied Not applicable as non-recovery type coke oven with modified wet quenching is proposed to be installed.</p>		<p>Date: 24/05/2024</p>
8	AIR QUALITY MONITORING AND PRESERVATION	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
<p>PPs Submission: Agreed to Comply The raw material stock piles are covered with industrial grade taruplin and water is sprayed by movable water mist fog cannon system.</p>		<p>Date: 24/05/2024</p>
9	AIR QUALITY MONITORING AND PRESERVATION	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.
<p>PPs Submission: Agreed to Comply Noted and is being considered in design stage.</p>		<p>Date: 24/05/2024</p>
10	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); S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
<p>PPs Submission: Being Complied The plant is being designed as Zero Liquid Discharge (ZLD) and 100% water is/will be recycled after treatment and is/will be used in process, dust suppression & green belt development. CEMS is installed at outlet of the ETP. In due course of time, server connection for data transfer to the Central Pollution Control Board will be done. Effluent quality is being monitored at ETP inlet & Outlet by third party monitoring agency M/s Qualissure Laboratory Services, Kolkata which is NABL accredited laboratory. Latest effluent Monitoring Analysis reports carried by NABL/MoEF accredited lab are attached.</p>		<p>Date: 24/05/2024</p>
11	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.
<p>PPs Submission: Being Complied Monitoring of ground water quality carried by Qualissure Laboratory Services (NABL accredited lab.) in March 2024. Copy of the monitoring report is enclosed.</p>		<p>Date: 24/05/2024</p>
12	WATER QUALITY MONITORING AND PRESERVATION	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
<p>PPs Submission: Agreed to Comply Agreed and noted for compliance. The project is still in construction phase. Currently domestic waste water is being treated in septic tank followed by soak pit. Installation & commissioning of Sewage Treatment Plant shall be done in parallel with implementation of proposed project.</p>		<p>Date: 24/05/2024</p>
13	MISCELLANEOUS	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy

		should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
PPs Submission: Complied The company has a well laid down environmental policy duly approved by the board of directors. Copy of corporate environmental policy is already submitted with the Half Yearly Compliance Report December 2023 vides Ref no. RGHSPL/EC_SMC/DEC23/2023-24/01 dated 27.11.2023		Date: 24/05/2024
14	MISCELLANEOUS	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
PPs Submission: Complied A separate Environmental Cell both at project and company head quarter is in place. Copy of corporate environmental policy is already submitted with the Half Yearly Compliance Report December 2023 vides Ref no. RGHSPL/EC_SMC/DEC23/2023-24/01 dated 27.11.2023		Date: 24/05/2024
15	MISCELLANEOUS	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
PPs Submission: Complied Details for the said condition were already submitted to ministry with the Half yearly Compliance Report for the period of April 2023 to September 2023 submitted vide Ref. no. RGHSPL/EC_SMC/DEC23/2023-24/01 dated 27.11.2023 Copy of the EC uploaded on company's website https://www.rashmiseamless.com/quality/ .		Date: 24/05/2024
16	MISCELLANEOUS	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
PPs Submission: Complied Details for the said condition were already submitted to ministry with the Half yearly Compliance Report for the period of April 2023 to September 2023 submitted vide Ref. no. RGHSPL/EC_SMC/DEC23/2023-24/01 dated 27.11.2023		Date: 24/05/2024
17	MISCELLANEOUS	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
PPs Submission: Being Complied In respect to the said condition, this Half Yearly Compliance reported is being submitted. Copy of the last half yearly compliance report has been uploaded on company's website https://www.rashmiseamless.com/quality/ and is also regularly updated.		Date: 24/05/2024
18	MISCELLANEOUS	The project proponent shall monitor the criteria pollutants level

		namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
PPs Submission: Being Complied Copy of the half yearly compliance report along with monitoring report has been uploaded on company's website https://www.rashmiseamless.com/quality/ and regularly updated. Display board is installed at main gate of the company in parallel with implementation of the project. The picture is given below.		Date: 24/05/2024
19	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.
PPs Submission: Being Complied The last compliance report for the period April 2023 to September 2023 has been submitted to ministry vide letter no. RGHSPL/EC_SMC/DEC2023/2023-24/01 dated 27.11.2023		Date: 24/05/2024
20	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.
PPs Submission: Agreed to Comply The project is still under construction phase. Consent to operate for Seamless pipe/tube plant of capacity 3,20,000 Ton/year and Coal gasifier plant of 31,500 Cum/Hr obtained from WBPCB on 16.05.2023. Form-V will be submitted from the current financial year i.e. 2023-24 and will be uploaded on company's website.		Date: 24/05/2024
21	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.
PPs Submission: Being Complied Noted The company is a private company and no finance is needed from outside. Land development work has been started after getting NOC from WBPCB.		Date: 24/05/2024
22	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.
PPs Submission: Agreed to Comply Agreed and Noted for compliance.		Date: 24/05/2024
23	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
24	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 Agreed and is being complied with.		Date: 24/05/2024
25	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: Agreed to Comply Agreed and Noted for compliance.		Date: 24/05/2024
26	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 for compliance.		Date: 24/05/2024
27	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
28	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 Agreed and noted.		Date: 24/05/2024
29	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 Noted.		Date: 24/05/2024
30	WATER QUALITY	Garland drains and collection pits shall be provided for each stock

	MONITORING AND PRESERVATION	pile to arrest the runoff in the event of heavy rains and to check the water pollution due to surface run off.	
PPs Submission: Agreed to Comply The project is still in construction phase.			Date: 24/05/2024
31	WATER QUALITY MONITORING AND PRESERVATION	Tyre washing facilities shall be provided at the entrance of the plant gates.	
PPs Submission: Agreed to Comply The project is still in construction phase.			Date: 24/05/2024
32	WATER QUALITY MONITORING AND PRESERVATION	Water meters shall be provided at the inlet to all unit processes in the steel plants.	
PPs Submission: Being Complied Project is under construction phase. Water meter has been installed in the operational plant.			Date: 24/05/2024
33	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.	
PPs Submission: Being Complied Noise level has been monitored at work zone i.e., (Construction as well as operational plant area) by third party monitoring agency M/s Qualissure Laboratory Services, Kolkata which is a NABL accredited laboratory. Noise monitoring reports are attached.			Date: 24/05/2024
34	ENERGY PRESERVATION MEASURES	Use torpedo ladle for hot metal transfer as far as possible. If ladles not used, provide covers for open top ladles.	
PPs Submission: Agreed to Comply Noted and will be complied with during project implementation stage.			Date: 24/05/2024
35	ENERGY PRESERVATION MEASURES	Restrict Gas flaring to < 1%.	
PPs Submission: Agreed to Comply Noted and will be complied with.			Date: 24/05/2024
36	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;	
PPs Submission: Agreed to Comply Currently the project is under construction stage and solar internal street light is provided at potential area.			Date: 24/05/2024
37	ENERGY PRESERVATION MEASURES	Provide LED lights in their offices and residential areas.	
PPs Submission: Agreed to Comply Agreed and will be installed. Illumination intensity monitoring report is enclosed as Annexure-VIII.			Date: 24/05/2024

38	ENERGY PRESERVATION MEASURES	Ensure installation of regenerative/recuperative type burners on all reheating furnaces.
PPs Submission: Agreed to Comply Agreed and will be complied with during project implementation stage.		Date: 24/05/2024
39	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
40	WASTE MANAGEMENT	Kitchen waste shall be composted or converted to biogas for further use.
PPs Submission: Being Complied Kitchen waste are composted and used as manure for green belt development.		Date: 24/05/2024
41	GREENBELT	Green belt shall be developed in an area equal to 33% of the plant area with native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant
PPs Submission: Being Complied Thick Green belt to a width of 30 meters with a tree density of about 2500 trees/ha consisting of at least 3 tiers consisting of large trees, smaller trees and shrubs, whereas some grasses and flowering plants are grown on lawns and garden. The short trees are planted in the first rows and the tall trees in the outer rows around the purview of the project site. will be developed as a green buffer for mitigating the impact towards the villages namely Khatranga towards West direction and towards North East direction of project site. The greenbelt development will be covered 35% of the project area i.e. about 36.83 Hectares at the project area. Around 92,075 numbers of trees which are resistant to pollutants, will be planted as per CPCB/MoEFCC, New Delhi guidelines. Till March-2024, 85,000 numbers of trees have been planted. Details of Greenbelt are attached.		Date: 24/05/2024
42	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 in the plant premises.
PPs Submission: Complied In compliance to the said condition, report submitted with the Half Yearly Compliance Report December 2023 vides Ref no. RGHSPL/EC_SMC/DEC23/2023-24/01 dated 27.11.2023		Date: 24/05/2024
43	GREENBELT	Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon 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: Being Complied Reply to the subject condition is already stated in point no. iii under Specific Conditions.		Date: 24/05/2024
44	Human Health Environment	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.

<p>PPs Submission: Complied HIRA report and Disaster Management Plan have been prepared by NABET accredited consultant and copy of the same is submitted with the Half Yearly Compliance Report December 2023 vides Ref no. RGHSPL/EC_SMC/DEC23/2023-24/01 dated 27.11.2023.</p>		<p>Date: 24/05/2024</p>
45	Human Health Environment	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.
<p>PPs Submission: Being Complied Plant is still under construction. Heat stress analysis will be done as per operational requirement. Proper PPEs are provided to the worker. Without proper PPEs no one is allowed to work inside the plant premises. Safety awareness campaigns organised inside the plant premises with the objective of demonstrating the use of PPEs in different work zone and explaining the benefit of using PPEs.</p>		<p>Date: 24/05/2024</p>
46	Human Health Environment	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.
<p>PPs Submission: Being Complied The occupational health surveillance of the workers employed during operation & construction phase has been done and records are maintained as per the Factories Act. The OHS Record is attached.</p>		<p>Date: 24/05/2024</p>
47	MISCELLANEOUS	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.
<p>PPs Submission: Agreed to Comply Agreed and Will be complied.</p>		<p>Date: 24/05/2024</p>
48	AIR QUALITY MONITORING AND PRESERVATION	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
<p>PPs Submission: Being Complied Fugitive Emissions have been monitored at the three locations viz., Construction Site, Truck Parking Area & Seamless Pipe Area by third party monitoring agency M/s. Qualissure Laboratory Services, Kolkata which is NABL accredited laboratory. Fugitive Emissions monitoring report is enclosed.</p>		<p>Date: 24/05/2024</p>
49	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.
<p>PPs Submission: Agreed to Comply Project is under construction phase. The plant will be designed to comply with the condition mentioned. Sampling facility at for operational plant stacks has been provided.</p>		<p>Date: 24/05/2024</p>
50	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.
<p>PPs Submission: Agreed to Comply As mentioned, the project is under construction phase, after obtaining valid NOC from WBPCB. Appropriate Air Pollution Control (APC) system is provided for some of the dust generating points including fugitive dust from all vulnerable sources, so as to comply with the prescribed stack emission and fugitive emission standards. For the rest, it will be provided as soon as the project</p>		<p>Date: 24/05/2024</p>

comes into operation.		
51	AIR QUALITY MONITORING AND PRESERVATION	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
PPs Submission: Agreed to Comply Agreed and noted for compliance. Leakage detection and mechanized bag cleaning facilities for better maintenance of bags will be provided for under construction project.		Date: 24/05/2024
52	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: Agreed to Comply Dedicated water spraying tankers are being used for the suppression of fugitive emission. Greenbelt development is under process to control the fugitive emission.		Date: 24/05/2024
53	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: Agreed to Comply Noted Fines/dust collected from APC and vacuum cleaning devices of under construction project will be handled as per EIA/EMP plan submitted while getting EC.		Date: 24/05/2024
Visit Remarks		
Last Site Visit Report Date:		N/A
Additional Remarks:		Scan copy of the half yearly compliance report along with annexures have been uploaded in additional attachment section for your kind consideration.



TEST REPORT

Name & Address Of the Customer : M/s. Rashmi Green Hydrogen Steel Pvt. Ltd. Khatranga, Changual, Gopinathpur Kharagpur, Paschim Mednipur, West Bengal-721301	Report No.	: QLS/P-184/23-24/C/03
	Date	: 13.04.2024
	Sample No.	: QLS/P-184/23-24/03
	Sample Description	: Stack Flue Gas
	Date of performance	: 01.04.2024-04.04.2024
	Ref No. Date	: 5400017868, : Dated – 23.02.2024

Analysis Result

Date & Time of Sampling : 29.03.2024 at 11:20 hrs.	Sampling Procedures : EPA/IS		
Sampling done by : C.Sahoo			
A : General Information of Stack:			
1 Stack connected to	: Hot Water Generator		
2 Emission due to	: Wood Chips		
3 Material of construction of Stack	: MS		
4 Shape of Stack	: Circular		
5 Whether stack is provided with permanent platform	: Yes		
6 Generation Capacity	: 25 Ton		
B : Physical Characteristic of Stack:			
1 Height of Stack from ground level	: 35.0 m		
2 Diameter of Stack at bottom	: ---		
3 Diameter of Stack at sampling point	: 1.0 m		
4 Height of the sampling point from ground level	: 17.0 m (approx)		
5 Area of Stack	: 0.7857 m ²		
C : Analysis/Characteristic of Stack:			
1 Fuel used : Woodchips	2. Fuel consumption : 500kg/Hr		
D : Results of Sampling & Analysis of gaseous Emission:			
	RESULT	METHOD	LIMIT
1 Temperature of emission (°C)	: 137	EPA Part 2	---
2 Barometric pressure (mm of Hg)	: 756	EPA Part 2	---
3 Velocity of gas (m/sec)	: 5.01	EPA Part 2	---
4 Quantity of gas flow (Nm ³ /hr)	: 10248.3	EPA Part 2	---
5 Concentration of Carbon monoxide (%)	: <0.2	IS:13270-1992, Reaf : 2019	---
6 Concentration of Carbon dioxide (%)	: 9.2	IS:13270-1992, Reaf : 2019	---
7 Concentration of Sulphur dioxide (mg/Nm ³)	: 10.0	EPA Part-6	---
8 Concentration of Oxides of Nitrogen (mg/Nm ³)	: 24.1	EPA Part-7	---
9 Concentration of Particulate Matter (mg/Nm ³)	: 24	EPA Part-5	---
E : Pollution Control Device :			
Details of pollution control devices attached with the stack : Cyclone Separator			
F : Remarks: Sample taken from final exhaust			

Report Prepared By:

for Qualissure Laboratory Services
 Reviewed & Authorized By

Benimadhab Gorai, Chemist
 (Authorized Signatory)

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

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

1 a)	Name of the Project :	M/s Rashmi Green Hydrogen Steel Private Limited-Proposed an Integrated Steel Plant of 3.1 million Ton per annum (Finished Steel) along with 230 MW (80 MW WHRB/TRT based + 150 MW coal based) Captive Power Plant
1 b)	Environment Clearance Nos. :	EC Identification no. EC23A008WB113189 issued vide File No. IA-J-11011/102/2022-IA-II(IND-I) dated 07/03/2023
2	Location, Block/ Sub. Divn. / Dist/ State:	Mouza – Changual (J.L. No-360), Jethia (J.L. No-361),Khatranga(J.L. No-362), Gopinathpur (J.L. No. 359) and Goyalara (J.L. No. 391),P.S. – Kharagpur (Local), Dist. – Paschim Medinipur ,West Bengal
3	Address for communication :	9, AJC Bose Road, 1 st Floor, Ideal Center Kolkata, West Bengal-700017
4	Existing vegetation in the area/ region	Industrial land
	a) Species (trees/shrubs/grasses/climbers)	Vacant land
	b) Major prevalent species of each type	Not Applicable
Land coverage by the project		
5	a) Total area under the project	112.10 ha (105.22 ha Plant area)
	b) Area covered for basic infrastructure (roads/building/factory etc.)	Project is still in construction phase after obtaining valid NOC from WBPCB.
Details about natural vegetation		
6	a) Name and number of tree/species felled	NA
	b) Name and number of plant species still available in the area	NA
	c) By protecting the area will indigenous stock come up	NA
	d) Extent of greenbelt developed (till September 2023)	32.16 hectares i.e., 30.56% areas of total plant premises
Plantations required to be carried out as per		
7	a) Conditions of Environmental Clearance in ha./ Nos.	36.83 ha (35% of 105.22 ha)
	b) Conditions for Forest act (c) clearance in ha./ Nos.	Not Applicable
	c) Voluntarily in acres (truck parking area etc.)	1,350 nos. alongside the road corridor.

	Voluntarily in no. for green belt development in nearby area	2,00,000 nos. proposed to be planted in 03 years
8	Details of plantations	

	A	Plantation details (category wise & methodology used)	Year of plantation	Species planted	Nos.		
			October'23 to March'24	Copy attached	Copy attached		
		Survival of plantation		FY 2022-2023	FY 2023-2024	--	
	b	- Total Seedling/Plantation (No.)		5,000	80,000	-	
		- Survival Trees (No) as on date from date of EC		4,400	76,000	-	
		- Survival		88.0%	95.0%	-	
9.	Future Plan on Green Belt development			Greenbelt development over an area of 36.83 hectares i.e., 35.0% areas of total plant premises will be done within the given time frame			
10.	Agency carrying out plantation and maintenance			Our own horticulture department & third party			
11.	Financial details (year wise) plantation wise and item wise			S. No.	Year	Fund allocated (₹)	Expenditure including voluntary tree plantation cost (₹)
				1	2023-24	20,00,000	22,50,000



PHOTOGRAPHS OF THE GREENBELT DEVELOPED INSIDE THE PLANT



TEST REPORT

Name & Address Of the Customer : M/s. Rashmi Green Hydrogen Steel Pvt. Ltd. Khatranga, Changual, Gopinathpur Kharagpur, Paschim Mednipur, West Bengal-721301	Report No.	: QLS/P-184/23-24/C/05
	Date	: 13.04.2024
	Sample No.	: QLS/P-184/23-24/05
	Sample Description	: Ambient Air
	Date of performance	: 18.03.2024-30.03.2024
	Ref No. Date	: 5400017798, Dated – 22.02.2024

Analysis Result

Location : Near Plant Main Gate		Date of sampling : 14.03.2024-15.03.2024		
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	64	100	IS: 5182 (Part-23)-(RA-2017)
2	Particulate matter (<2.5 μ m) in μ g/m ³	32	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO ₂) in μ g/m ³	5.8	80	IS: 5182 (Part-2)-2001, (RA-2017)
4	Nitrogen dioxide (NO ₂) in μ g/m ³	25.6	80	IS: 5182 (Part- 6)- (RA-2017)
5	Carbon Monoxide (CO) in μ g/m ³	629	2000	IS: 5182 (Part- 10)- (RA-2017)
6	Ozone (O ₃) in μ g/m ³	<19.62	180	Air Sampling, 3 rd Edn -Method-411
NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.				

Report Prepared By:

for Qualissure Laboratory Services
 Reviewed & Authorized By

 Benimadhab Goral, Chemist
 (Authorized Signatory)

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

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TEST REPORT

Name & Address Of the Customer : M/s. Rashmi Green Hydrogen Steel Pvt. Ltd. Khatranga, Changual, Gopinathpur Kharagpur, Paschim Mednipur, West Bengal-721301	Report No. : QLS/P-184/23-24/C/06 Date : 13.04.2024 Sample No. : QLS/P-184/23-24/06 Sample Description : Ambient Air Date of performance : 18.03.2024-30.03.2024 Ref No. Date : 5400017798, Dated – 22.02.2024
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Analysis Result

Location : Gopinathpur Village		Date of sampling : 14.03.2024-15.03.2024		
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	45	100	IS: 5182 (Part-23)-(RA-2017)
2	Particulate matter (<2.5µm) in µg/m ³	21	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO ₂) in µg/m ³	5.0	80	IS: 5182 (Part-2)-2001, (RA-2017)
4	Nitrogen dioxide (NO ₂) in µg/m ³	21.4	80	IS: 5182 (Part- 6)- (RA-2017)
5	Carbon Monoxide (CO) in µg/m ³	480	2000	IS: 5182 (Part- 10)- (RA-2017)
6	Ozone (O ₃) in µg/m ³	<19.62	180	Air Sampling, 3 rd Edn -Method-411
NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.				

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Benimadhab Gorai, Chemist
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TEST REPORT

Name & Address Of the Customer : M/s. Rashmi Green Hydrogen Steel Pvt. Ltd. Khatranga, Changual, Gopinathpur Kharagpur, Paschim Mednipur, West Bengal-721301	Report No. : QLS/P-184/23-24/C/07 Date : 13.04.2024 Sample No. : QLS/P-184/23-24/07 Sample Description : Ambient Air Date of performance : 18.03.2024-30.03.2024 Ref No. Date : 5400017798, Dated – 22.02.2024
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Analysis Result

Location : Jethia Village		Date of sampling : 14.03.2024-15.03.2024		
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	40	100	IS: 5182 (Part-23)-(RA-2017)
2	Particulate matter (<2.5µm) in µg/m ³	14	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO ₂) in µg/m ³	4.2	80	IS: 5182 (Part-2)-2001, (RA-2017)
4	Nitrogen dioxide (NO ₂) in µg/m ³	20.1	80	IS: 5182 (Part- 6)- (RA-2017)
5	Carbon Monoxide (CO) in µg/m ³	458	2000	IS: 5182 (Part- 10)- (RA-2017)
6	Ozone (O ₃) in µg/m ³	<19.62	180	Air Sampling, 3 rd Edn -Method-411
NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.				

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(Authorized Signatory)

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

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TEST REPORT

Name & Address Of the Customer : M/s. Rashmi Green Hydrogen Steel Pvt. Ltd. Khatranga, Changual, Gopinathpur Kharagpur, Paschim Mednipur, West Bengal-721301	Report No. : QLS/P-184/23-24/C/08 Date : 13.04.2024 Sample No. : QLS/P-184/23-24/08 Sample Description : Ambient Air Date of performance : 18.03.2024-30.03.2024 Ref No. Date : 5400017798, Dated – 22.02.2024
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Analysis Result

Location : Goyalpara Village		Date of sampling : 15.03.2024-16.03.2024		
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	37	100	IS: 5182 (Part-23)-(RA-2017)
2	Particulate matter (<2.5µm) in µg/m ³	15	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO ₂) in µg/m ³	<4.0	80	IS: 5182 (Part-2)-2001, (RA-2017)
4	Nitrogen dioxide (NO ₂) in µg/m ³	15.6	80	IS: 5182 (Part- 6)- (RA-2017)
5	Carbon Monoxide (CO) in µg/m ³	435	2000	IS: 5182 (Part- 10)- (RA-2017)
6	Ozone (O ₃) in µg/m ³	<19.62	180	Air Sampling, 3 rd Edn -Method-411
NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.				

Report Prepared By:

for Qualissure Laboratory Services
Reviewed & Authorized By

Benimadhab Goral, Chemist
(Authorized Signatory)

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TEST REPORT

Name & Address Of the Customer : M/s. Rashmi Green Hydrogen Steel Pvt. Ltd. Khatranga, Changual, Gopinathpur Kharagpur, Paschim Mednipur, West Bengal-721301	Report No. : QLS/P-184/23-24/C/09 Date : 13.04.2024 Sample No. : QLS/P-184/23-24/09 Sample Description : Ambient Air Date of performance : 18.03.2024-30.03.2024 Ref No. Date : 5400017798, Dated – 22.02.2024
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Analysis Result

Location : Kalachak Village		Date of sampling : 15.03.2024-16.03.2024		
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	46	100	IS: 5182 (Part-23)-(RA-2017)
2	Particulate matter (<2.5µm) in µg/m ³	23	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO ₂) in µg/m ³	4.7	80	IS: 5182 (Part-2)-2001, (RA-2017)
4	Nitrogen dioxide (NO ₂) in µg/m ³	18.4	80	IS: 5182 (Part- 6)- (RA-2017)
5	Carbon Monoxide (CO) in µg/m ³	503	2000	IS: 5182 (Part- 10)- (RA-2017)
6	Ozone (O ₃) in µg/m ³	<19.62	180	Air Sampling, 3 rd Edn -Method-411
NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.				

Report Prepared By:

for Qualissure Laboratory Services
Reviewed & Authorized By

Benimadhab Goral, Chemist
(Authorized Signatory)

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TEST REPORT

Name & Address Of the Customer: M/s. Rashmi Green Hydrogen Steel Pvt. Ltd. Khatranga, Changual, Gopinathpur Kharagpur, Paschim Mednipur, West Bengal-721301	Report No. : QLS/P-184/23-24/C/12 Date : 13.04.2024 Sample No. : QLS/P-184/23-24/12 Sample Description : Work Zone Monitoring Date of performance : 18.03.2024-30.03.2024 Ref No. Date : 5400017798, Dated – 22.02.2024
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Analysis Result

Location : Construction Site	Date of sampling : 14.03.2024		
Sampling Done by: C.Sahoo	Sampling done as per : CPCB Guidelines (Volume-1)		
Environmental Condition : Clear & Sunny			
Sl. No.	Pollutants	Result	Method of Test Reference
1	Total Suspended Particulate Matter in $\mu\text{g}/\text{m}^3$	159	IS 5182 : Part.4-1999,(RA-2014)
2	Respirable Suspended Particulate Matter in $\mu\text{g}/\text{m}^3$	87	IS 5182: Part 23 : 2012
3	Sulphur dioxide (SO_2) in $\mu\text{g}/\text{m}^3$	8.3	IS: 5182 (Part-2)-2001,(RA-2012)
4	Nitrogen dioxide (NO_2) in $\mu\text{g}/\text{m}^3$	32.4	IS: 5182 (Part- 6)-2012
5	Concentration of acid mist as H_2SO_4 in ($\mu\text{g}/\text{m}^3$)	73.2	Lab Method
NOTE: Fugitive emission Standard - $4000 \mu\text{g}/\text{m}^3$ as per Environment (Protection) rules, 1986.			

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. Rashmi Green Hydrogen Steel Pvt. Ltd. Khatranga, Changual, Gopinathpur Kharagpur, Paschim Mednipur, West Bengal-721301	Report No. : QLS/P-184/23-24/C/13 Date : 13.04.2024 Sample No. : QLS/P-184/23-24/13 Sample Description : Work Zone Monitoring Date of performance : 18.03.2024-30.03.2024 Ref No. Date : 5400017798, Dated – 22.02.2024
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Analysis Result

Location : Truck Parking Area	Date of sampling : 14.03.2024		
Sampling Done by: C.Sahoo	Sampling done as per : CPCB Guidelines (Volume-1)		
Environmental Condition : Clear & Sunny			
Sl. No.	Pollutants	Result	Method of Test Reference
1	Total Suspended Particulate Matter in $\mu\text{g}/\text{m}^3$	183	IS 5182 : Part.4-1999,(RA-2014)
2	Respirable Suspended Particulate Matter in $\mu\text{g}/\text{m}^3$	103	IS 5182: Part 23 : 2012
3	Sulphur dioxide (SO_2) in $\mu\text{g}/\text{m}^3$	8.0	IS: 5182 (Part-2)-2001,(RA-2012)
4	Nitrogen dioxide (NO_2) in $\mu\text{g}/\text{m}^3$	38.5	IS: 5182 (Part- 6)-2012
5	Concentration of acid mist as H_2SO_4 in ($\mu\text{g}/\text{m}^3$)	70.6	Lab Method
NOTE: Fugitive emission Standard - $4000 \mu\text{g}/\text{m}^3$ as per Environment (Protection) rules, 1986.			

Report Prepared By:



for Qualissure Laboratory Services
Reviewed & Authorized By

Benimadhab Gorai, Chemist
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TEST REPORT

Name & Address Of the Customer: M/s. Rashmi Green Hydrogen Steel Pvt. Ltd. Khatranga, Changual, Gopinathpur Kharagpur, Paschim Mednipur, West Bengal-721301	Report No. : QLS/P-184/23-24/C/14 Date : 13.04.2024 Sample No. : QLS/P-184/23-24/14 Sample Description : Work Zone Monitoring Date of performance : 18.03.2024-30.03.2024 Ref No. Date : 5400017798, Dated – 22.02.2024
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Analysis Result

Location : Seamless Pipe Area	Date of sampling : 14.03.2024		
Sampling Done by: C.Sahoo	Sampling done as per : CPCB Guidelines (Volume-1)		
Environmental Condition : Clear & Sunny			
Sl. No.	Pollutants	Result	Method of Test Reference
1	Total Suspended Particulate Matter in $\mu\text{g}/\text{m}^3$	127	IS 5182 : Part.4-1999,(RA-2014)
2	Respirable Suspended Particulate Matter in $\mu\text{g}/\text{m}^3$	76	IS 5182: Part 23 : 2012
3	Sulphur dioxide (SO_2) in $\mu\text{g}/\text{m}^3$	7.1	IS: 5182 (Part-2)-2001,(RA-2012)
4	Nitrogen dioxide (NO_2) in $\mu\text{g}/\text{m}^3$	26.5	IS: 5182 (Part- 6)-2012
5	Concentration of acid mist as H_2SO_4 in ($\mu\text{g}/\text{m}^3$)	75.3	Lab Method
NOTE: Fugitive emission Standard - $4000 \mu\text{g}/\text{m}^3$ as per Environment (Protection) rules, 1986.			

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. Rashmi Green Hydrogen Steel Pvt. Ltd. Khatranga, Changual, Gopinathpur Kharagpur, Paschim Mednipur, West Bengal-721301	Report No.	: QLS/P-184/23-24/C/19
	Date	: 30.04.2024
	Sample No.	: QLS/P-184/23-24/19
	Sample Description	: Effluent
	Sample Mark	: ETP Inlet
	Sample Drawn On	: 16.03.2024
	Date of Performance	: 18.03.2024-30.03.2024
Ref No. Date	: 5400017798, Dated – 22.02.2024	

Analysis Result

Sl. No.	Parameter	TEST METHOD	Result	Limit as per CPCB for discharge of effluents	
				Inland Surface Water	Public Sewers
1.	pH at 25° C	APHA 24 th Edition-2023, 4500 H+	4.82	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	84	100	600
3.	Chemical Oxygen Demand (as COD) mg/l	APHA 24 th Edition-2023, 5220B	220	250	---
4.	Biochemical Oxygen Demand (as BOD) mg/l	IS 3025 (Part 44)-1993, RA:2019	56	30	350
5.	Oil & Grease in mg/l	APHA 24 th Edition-2023, 5520B	8.2	10	20

Report Prepared By:

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 : M/s. Rashmi Green Hydrogen Steel Pvt. Ltd. Khatranga, Changual, Gopinathpur Kharagpur, Paschim Mednipur, West Bengal-721301	Report No.	: QLS/P-184/23-24/C/20
	Date	: 30.04.2024
	Sample No.	: QLS/P-184/23-24/20
	Sample Description	: Effluent
	Sample Mark	: ETP Outlet
	Sample Drawn On	: 16.03.2024
	Date of Performance	: 18.03.2024-30.03.2024
Ref No. Date	: 5400017798, Dated – 22.02.2024	

Analysis Result

Sl. No.	Parameter	TEST METHOD	Result	Limit as per CPCB for discharge of effluents	
				Inland Surface Water	Public Sewers
1.	pH at 25° C	APHA 24 th Edition-2023, 4500 H+	7.23	5.5 to 9.0	5.5 to 9.0
2.	Total Suspended Solid(as TSS) in mg/l	APHA 24 th Edition-2023, 2540 D	16	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:2019	12	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
Bishnupriya Banerjee, Chemist
(Authorized Signatory)

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TEST REPORT

Name & Address Of the Customer : M/s. Rashmi Green Hydrogen Steel Pvt. Ltd. Khatranga, Changual, Gopinathpur Kharagpur, Paschim Mednipur, West Bengal-721301	ULR No.	: TC627124000000558F
	Report No.	: QLS/P-184/23-24/C/15
	Date	: 30.04.2024
	Sample No.	: QLS/P-184/23-24/15
	Sample Description	: Drinking Water
	Sample Mark	: Tap Near Admin Building
	Sample Drawn On	: 16.03.2024
	Date of performance	: 18.03.2024-30.03.2024
	Ref No. & Date	: 5400017798, Dated – 22.02.2024

Analysis Result

(A) Microbiological Analysis

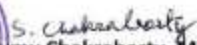
Sl. No.	Characteristic	Limit as per IS 10500; 2012 Amd. 2	Test Method	Result
1.	Total Coliform Bacteria/100ml	Not Detectable	IS 15185-2016 (RA 2021)	Not Detected
2.	E Coli/100ml	Not Detectable	IS 15185-2016 (RA 2021)	Not Detected

(B) Chemical Analysis

Sl. No.	Test Parameter	Test Method	IS 10500:2012 Amd. No. 1 & 2		Result
			Acceptable Limit	Permissible Limit	
1.	Colour in Hazen Units	IS 3025 (Part 4): 2021	5	15	<5
2.	Odour	IS 3025 (Part 5): 2022	Agreeable	Agreeable	Agreeable
3.	pH Value at 25°C	IS 3025 (Part 11): 2022	6.5-8.5	No Relaxation	7.91
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	382
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	55.3
9.	Chloride(as Cl) in mg/l	IS 3025 (Part 32): 1988 (RA 2019)	250	1000	63.6
10.	Copper(as Cu) in mg/l	IS 3025 (Part 42): 1992(RA 2019)	0.05	1.5	<0.02
11.	Fluoride(as F) in mg/l	APHA 24 th Edition 2023, 4500 F D	1.0	1.5	0.22
12.	Free Residual Chlorine in mg/l	IS 3025 (Part 26): 2021	0.2	1.0	<0.1
13.	Iron (as Fe) in mg/l	IS 3025 (Part 53): 1988(RA 2019)	1.0	No Relaxation	0.51
14.	Magnesium (as Mg) in mg/l	APHA 24 th Edition 2023, 3500 Mg B	30	100	29.5
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	0.71
17.	Sulphate (as SO ₄) in mg/l	IS 3025 (Part 24): Sec1, 2022	200	400	35.1
18.	Alkalinity(as CaCO ₃) in mg/l	IS 3025 (Part 23): 2023	200	600	281.2
19.	Total Hardness (as CaCO ₃) in mg/l	IS 3025 (Part 21): 2009 (RA 2019)	200	600	261.1
20.	Cadmium(as Cd) in mg/l	IS 3025 (Part 41): 2023	0.003	No Relaxation	<0.002
21.	Cyanide(as Cn) in mg/l	IS 3025 (Part 27): 1986(RA 2019)	0.05	No Relaxation	<0.02
22.	Lead(as Pb) in mg/l	IS 3025 (Part 47): 1994 (RA 2019)	0.01	No Relaxation	<0.01
23.	Mercury(as Hg) in mg/l	IS 3025 (Part 48): 1994(RA 2019)	0.001	No Relaxation	<0.001
24.	Arsenic(as As) in mg/l	IS 3025 (Part 37): 2022	0.01	No Relaxation	<0.01
25.	Zinc(as Zn) in mg/l	IS 3025 (Part 49): 1994 (RA 2019)	5	15	0.06
26.	Total Chromium (as Cr) in mg/l	IS 3025 (Part 52): 2014 (RA 2019)	0.05	No Relaxation	<0.05

Report Prepared By:  for Qualissure Laboratory Services
 Reviewed & Authorized By




 Soumy Chakraborty, Microbiologist
 (Authorized Signatory)



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. Rashmi Green Hydrogen Steel Pvt. Ltd. Khatranga, Changual, Gopinathpur Kharagpur, Paschim Mednipur, West Bengal-721301	ULR No.	: TC627124000000559F
	Report No.	: QLS/P-184/23-24/C/16
	Date	: 30.04.2024
	Sample No.	: QLS/P-184/23-24/16
	Sample Description	: Drinking Water
	Sample Mark	: Borewell at Khotranga Village
	Sample Drawn On	: 16.03.2024
	Date of performance	: 18.03.2024-30.03.2024
	Ref No. & Date	: 5400017798, Dated – 22.02.2024

Analysis Result

(A) Microbiological Analysis

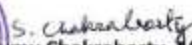
Sl. No.	Characteristic	Limit as per IS 10500; 2012 Amd. 2	Test Method	Result
1.	Total Coliform Bacteria/100ml	Not Detectable	IS 15185-2016 (RA 2021)	Not Detected
2.	E Coli/100ml	Not Detectable	IS 15185-2016 (RA 2021)	Not Detected

(B) Chemical Analysis

Sl. No.	Test Parameter	Test Method	IS 10500:2012 Amd. No. 1 & 2		Result
			Acceptable Limit	Permissible Limit	
1.	Colour in Hazen Units	IS 3025 (Part 4): 2021	5	15	<5
2.	Odour	IS 3025 (Part 5): 2022	Agreeable	Agreeable	Agreeable
3.	pH Value at 25°C	IS 3025 (Part 11): 2022	6.5-8.5	No Relaxation	7.17
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	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	67.6
9.	Chloride(as Cl) in mg/l	IS 3025 (Part 32): 1988 (RA 2019)	250	1000	73.3
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	0.27
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	0.58
14.	Magnesium (as Mg) in mg/l	APHA 24 th Edition 2023, 3500 Mg B	30	100	33.2
15.	Manganese (as Mn) in mg/l	IS 3025 (Part 59): 2023	0.1	0.3	<0.02
16.	Nitrate (as NO ₃) in mg/l	IS 3025 (Part 34): 1988(RA 2019)	45	No Relaxation	0.88
17.	Sulphate (as SO ₄) in mg/l	IS 3025 (Part 24): Sec1, 2022	200	400	41.3
18.	Alkalinity(as CaCO ₃) in mg/l	IS 3025 (Part 23): 2023	200	600	277.2
19.	Total Hardness (as CaCO ₃) in mg/l	IS 3025 (Part 21): 2009 (RA 2019)	200	600	307.2
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	<0.1
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




 Soumy Chakraborty, Microbiologist
 (Authorized Signatory)



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. Rashmi Green Hydrogen Steel Pvt. Ltd. Khatranga, Changual, Gopinathpur Kharagpur, Paschim Mednipur, West Bengal-721301	ULR No.	: TC627124000000560F
	Report No.	: QLS/P-184/23-24/C/17
	Date	: 30.04.2024
	Sample No.	: QLS/P-184/23-24/17
	Sample Description	: Drinking Water
	Sample Mark	: Borewell at Setria Village
	Sample Drawn On	: 16.03.2024
	Date of performance	: 18.03.2024-30.03.2024
	Ref No. & Date	: 5400017798, Dated – 22.02.2024

Analysis Result

(A) Microbiological Analysis

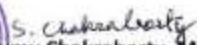
Sl. No.	Characteristic	Limit as per IS 10500; 2012 Amd. 2	Test Method	Result
1.	Total Coliform Bacteria/100ml	Not Detectable	IS 15185-2016 (RA 2021)	Not Detected
2.	E Coli/100ml	Not Detectable	IS 15185-2016 (RA 2021)	Not Detected

(B) Chemical Analysis

Sl. No.	Test Parameter	Test Method	IS 10500:2012 Amd. No. 1 & 2		Result
			Acceptable Limit	Permissible Limit	
1.	Colour in Hazen Units	IS 3025 (Part 4): 2021	5	15	<5
2.	Odour	IS 3025 (Part 5): 2022	Agreeable	Agreeable	Agreeable
3.	pH Value at 25°C	IS 3025 (Part 11): 2022	6.5-8.5	No Relaxation	7.26
4.	Turbidity in NTU	IS 3025 (Part 10): 2023	1	5	<1.0
5.	Total Dissolved Solids (as TDS) in mg/l	IS 3025 (Part 16): 2023	500	2000	314
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	52.2
9.	Chloride(as Cl) in mg/l	IS 3025 (Part 32): 1988 (RA 2019)	250	1000	67.5
10.	Copper(as Cu) in mg/l	IS 3025 (Part 42): 1992(RA 2019)	0.05	1.5	<0.02
11.	Fluoride(as F) in mg/l	APHA 24 th Edition 2023, 4500 F D	1.0	1.5	0.22
12.	Free Residual Chlorine in mg/l	IS 3025 (Part 26): 2021	0.2	1.0	<0.1
13.	Iron (as Fe) in mg/l	IS 3025 (Part 53): 1988(RA 2019)	1.0	No Relaxation	0.53
14.	Magnesium (as Mg) in mg/l	APHA 24 th Edition 2023, 3500 Mg B	30	100	24.9
15.	Manganese (as Mn) in mg/l	IS 3025 (Part 59): 2023	0.1	0.3	<0.02
16.	Nitrate (as NO ₃) in mg/l	IS 3025 (Part 34): 1988(RA 2019)	45	No Relaxation	0.79
17.	Sulphate (as SO ₄) in mg/l	IS 3025 (Part 24): Sec1, 2022	200	400	31.3
18.	Alkalinity(as CaCO ₃) in mg/l	IS 3025 (Part 23): 2023	200	600	213.8
19.	Total Hardness (as CaCO ₃) in mg/l	IS 3025 (Part 21): 2009 (RA 2019)	200	600	234.2
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	<0.1
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




Soumy Chakraborty, Microbiologist
(Authorized Signatory)

for Qualissure Laboratory Services
Reviewed & Authorized By




Bishnupriya Banerjee, Chemist
(Authorized Signatory)

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

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TEST REPORT

Name & Address Of the Customer : M/s. Rashmi Green Hydrogen Steel Pvt. Ltd. Khatranga, Changual, Gopinathpur Kharagpur, Paschim Mednipur, West Bengal-721301	ULR No.	: TC627124000000561F
	Report No.	: QLS/P-184/23-24/C/18
	Date	: 30.04.2024
	Sample No.	: QLS/P-184/23-24/18
	Sample Description	: Drinking Water
	Sample Mark	: Borewell at Gopinathpur Village
	Sample Drawn On	: 16.03.2024
	Date of performance	: 18.03.2024-30.03.2024
	Ref No. & Date	: 5400017798, Dated – 22.02.2024

Analysis Result

(A) Microbiological Analysis

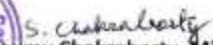
Sl. No.	Characteristic	Limit as per IS 10500; 2012 Amd. 2	Test Method	Result
1.	Total Coliform Bacteria/100ml	Not Detectable	IS 15185-2016 (RA 2021)	Not Detected
2.	E Coli/100ml	Not Detectable	IS 15185-2016 (RA 2021)	Not Detected

(B) Chemical Analysis

Sl. No.	Test Parameter	Test Method	IS 10500:2012 Amd. No. 1 & 2		Result
			Acceptable Limit	Permissible Limit	
1.	Colour in Hazen Units	IS 3025 (Part 4): 2021	5	15	<5
2.	Odour	IS 3025 (Part 5): 2022	Agreeable	Agreeable	Agreeable
3.	pH Value at 25°C	IS 3025 (Part 11): 2022	6.5-8.5	No Relaxation	7.93
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	488
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	73.7
9.	Chloride(as Cl) in mg/l	IS 3025 (Part 32): 1988 (RA 2019)	250	1000	81.0
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	0.34
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	0.75
14.	Magnesium (as Mg) in mg/l	APHA 24 th Edition 2023, 3500 Mg B	30	100	40.6
15.	Manganese (as Mn) in mg/l	IS 3025 (Part 59): 2023	0.1	0.3	<0.02
16.	Nitrate (as NO ₃) in mg/l	IS 3025 (Part 34): 1988(RA 2019)	45	No Relaxation	0.91
17.	Sulphate (as SO ₄) in mg/l	IS 3025 (Part 24): Sec1, 2022	200	400	48.6
18.	Alkalinity(as CaCO ₃) in mg/l	IS 3025 (Part 23): 2023	200	600	376.2
19.	Total Hardness (as CaCO ₃) in mg/l	IS 3025 (Part 21): 2009 (RA 2019)	200	600	353.3
20.	Cadmium(as Cd) in mg/l	IS 3025 (Part 41): 2023	0.003	No Relaxation	<0.002
21.	Cyanide(as Cn) in mg/l	IS 3025 (Part 27): 1986(RA 2019)	0.05	No Relaxation	<0.02
22.	Lead(as Pb) in mg/l	IS 3025 (Part 47): 1994 (RA 2019)	0.01	No Relaxation	<0.01
23.	Mercury(as Hg) in mg/l	IS 3025 (Part 48): 1994(RA 2019)	0.001	No Relaxation	<0.001
24.	Arsenic(as As) in mg/l	IS 3025 (Part 37): 2022	0.01	No Relaxation	<0.01
25.	Zinc(as Zn) in mg/l	IS 3025 (Part 49): 1994 (RA 2019)	5	15	<0.1
26.	Total Chromium (as Cr) in mg/l	IS 3025 (Part 52): 2014 (RA 2019)	0.05	No Relaxation	<0.05

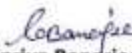
Report Prepared By:  for Qualissure Laboratory Services
 Reviewed & Authorized By




Soumy Chakraborty, Microbiologist
 (Authorized Signatory)

for Qualissure Laboratory Services
 Reviewed & Authorized By




Bishnupriya Banerjee, Chemist
 (Authorized Signatory)

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

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TEST REPORT

Name & Address Of the Customer : M/s. Rashmi Green Hydrogen Steel Pvt. Ltd. Khatranga, Changual, Gopinathpur Kharagpur, Paschim Mednipur, West Bengal-721301	Report No.	: QLS/P-184/23-24/C/10
	Date	: 13.04.2024
	Sample No.	: QLS/P-184/23-24/10(A-B)
	Sample Description	: Spot Noise Monitoring
	Date of performance	: 18.03.2024-30.03.2024
	Ref No. Date	: 5400017798, Dated – 22.02.2024

Monitoring Result of Work Zone Noise

Sampling Done By: C.Sahoo		Date of Monitoring : 14.03.2024	
Sampling Guideline : As per IS: 9876: 1981 (RA-2001)			
Sample No.	Location	Time of Monitoring	Leq dB (Avg) Day Time
10A	Seamless Pipe Area	11:00-11:10	63.1
10B	Construction Area	11:15-11:25	64.3

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. Rashmi Green Hydrogen Steel Pvt Ltd. Khatranga, Changual, Gopinathpur Kharagpur, Paschim Mednipur, West Bengal-721301	Report No.	: QLS/P-184/23-24/C/11A
	Date	: 13.04.2024
	Sample No.	: QLS/P-184/23-24/11A
	Date of Performance	: 18.03.2024-30.03.2024
	Sample Description	: Noise Monitoring
	Ref No. Date	: 5400017798, Dated – 22.02.2024

Monitoring Result of Noise

Sampling Done By: C.Sahoo			
Sampling Guideline : As per IS: 9876: 1981 (RA-2001)			
Location : Near Plant Main Gate			
Date of Monitoring : 14.03.2024-15.03.2024			
Time	Lmax dB (A)	Lmin dB (A)	Avg. dB (A)
06.00-07.00	49.6	47.6	48.6
07.00-08.00	50.2	45.2	48.0
08.00-09.00	59.6	53.7	56.6
09.00-10.00	59.4	56.2	58.0
10.00-11.00	64.7	60.2	62.2
11.00-12.00	69.5	66.7	68.5
12.00-13.00	70.6	62.3	65.5
13.00-14.00	69.5	58.9	62.8
14.00-15.00	69.8	57.9	63.3
15.00-16.00	70.8	59.6	64.5
16.00-17.00	71.2	58.6	64.6
17.00-18.00	67.8	50.2	62.7
18.00-19.00	68.5	55.5	61.7
19.00-20.00	63.5	53.6	58.3
20.00-21.00	63.2	55.9	60.3
21.00-22.00	64.5	54.7	59.9
22.00-23.00	63.6	50.1	58.7
23.00-00.00	54.6	50.2	53.2
00.00-01.00	58.7	54.2	56.2
01.00-02.00	58.6	46.2	52.2
02.00-03.00	57.6	45.6	50.1
03.00-04.00	49.5	45.6	48.5
04.00-05.00	47.7	45.2	46.0
05.00-06.00	50.2	45.6	47.6

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. Rashmi Green Hydrogen Steel Pvt Ltd. Khatranga, Changual, Gopinathpur Kharagpur, Paschim Mednipur, West Bengal-721301	Report No.	: QLS/P-184/23-24/C/118
	Date	: 13.04.2024
	Sample No.	: QLS/P-184/23-24/118
	Date of Performance	: 18.03.2024-30.03.2024
	Sample Description	: Noise Monitoring
	Ref No. Date	: 5400017798, Dated – 22.02.2024

Monitoring Result of Noise

Sampling Done By: C.Sahoo			
Sampling Guideline : As per IS: 9876: 1981 (RA-2001)			
Location : Khatranga			
Date of Monitoring : 14.03.2024-15.03.2024			
Time	Lmax dB (A)	Lmin dB (A)	Avg. dB (A)
06.00-07.00	49.6	47.6	48.6
07.00-08.00	50.2	45.2	48.0
08.00-09.00	59.6	53.7	56.6
09.00-10.00	59.4	56.2	58.0
10.00-11.00	55.6	50.3	52.9
11.00-12.00	58.5	56.3	57.7
12.00-13.00	55.6	50.4	53.0
13.00-14.00	58.5	56.0	57.4
14.00-15.00	59.8	51.8	55.8
15.00-16.00	56.8	50.4	53.2
16.00-17.00	58.1	52.8	55.3
17.00-18.00	55.6	40.5	50.3
18.00-19.00	53.3	49.6	51.4
19.00-20.00	63.5	60.2	62.7
20.00-21.00	67.5	63.2	64.3
21.00-22.00	67.5	63.5	64.8
22.00-23.00	47.6	40.2	43.5
23.00-00.00	44.6	40.2	43.1
00.00-01.00	54.2	45.6	50.4
01.00-02.00	50.4	40.2	45.6
02.00-03.00	49.7	41.3	46.1
03.00-04.00	49.5	45.6	48.5
04.00-05.00	47.7	38.5	42.5
05.00-06.00	50.2	45.6	47.6

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. Rashmi Green Hydrogen Steel Pvt Ltd. Khatranga, Changual, Gopinathpur Kharagpur, Paschim Mednipur, West Bengal-721301	Report No.	: QLS/P-184/23-24/C/11C
	Date	: 13.04.2024
	Sample No.	: QLS/P-184/23-24/11C
	Date of Performance	: 18.03.2024-30.03.2024
	Sample Description	: Noise Monitoring
	Ref No. Date	: 5400017798, Dated – 22.02.2024

Monitoring Result of Noise

Sampling Done By: C.Sahoo			
Sampling Guideline : As per IS: 9876: 1981 (RA-2001)			
Location : Jethia			
Date of Monitoring : 14.03.2024-15.03.2024			
Time	Lmax dB (A)	Lmin dB (A)	Avg. dB (A)
06.00-07.00	49.6	47.6	48.6
07.00-08.00	50.2	45.2	48.0
08.00-09.00	59.6	53.7	56.6
09.00-10.00	59.4	56.2	58.0
10.00-11.00	54.2	50.3	52.1
11.00-12.00	58.5	54.2	55.8
12.00-13.00	55.6	50.2	52.7
13.00-14.00	58.5	55.2	56.8
14.00-15.00	59.8	51.8	55.8
15.00-16.00	56.8	50.4	53.2
16.00-17.00	55.8	51.8	54.1
17.00-18.00	56.8	52.8	55.1
18.00-19.00	59.5	53.5	55.7
19.00-20.00	63.5	40.5	51.5
20.00-21.00	67.5	63.2	64.3
21.00-22.00	67.5	63.5	64.8
22.00-23.00	53.6	48.2	50.1
23.00-00.00	54.6	50.2	53.2
00.00-01.00	54.2	45.6	50.4
01.00-02.00	50.5	45.6	48.2
02.00-03.00	49.7	41.3	46.1
03.00-04.00	49.5	45.6	48.5
04.00-05.00	47.7	45.2	46.0
05.00-06.00	50.2	45.6	47.6

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. Rashmi Green Hydrogen Steel Pvt Ltd. Khatranga, Changual, Gopinathpur Kharagpur, Paschim Mednipur, West Bengal-721301	Report No.	: QLS/P-184/23-24/C/04
	Date	: 13.04.2024
	Sample No.	: QLS/P-184/23-24/04(A-J)
	Sample Description	: Illumination Intensity Monitoring
	Date of performance	: 01.04.2024-04.04.2024
	Ref No. Date	: 5400017868, : Dated – 23.02.2024

Result of Illumination Intensity Monitoring

Sampling Done By: C.Sahoo			
Sl.No	Date of Monitoring	Location	Lux in Average
04A	06.04.2024	Hot Mill-2	319
04B		Hot Mill-3	274
04C		Surface Treatment Plant Area	321
04D		Chemical Lab	290
04E		Store Area	239
04F		Admin Building	335
04G		Surface Treatment Area	245
04H		Finish Product Area	225
04I		Hot Mill-1	205
04J		Pilgar Production Area	224

<u>Illumination Standard - IS 6665 : 1991</u>	
Location	Average Illumination in Lux
Blast Furnace & Slab yards working areas, Mechanical workshop, Pump House, Stairs & Floors	100
Control Room, Control Desks	200-300
Conveyors	50-100
Outdoor of factory: Stock Yard, Main Entrance /Exit areas, Road, Parking Areas	20
Laboratories and Test rooms	300-450

Report Prepared By:

for Qualissure Laboratory Services
 Reviewed & Authorized By

Benimadhab Gorai, Chemist
 (Authorized Signatory)

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

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Visit ID	: AMP4403	Registration	: 18/Aug/2023 08:00PM
UHID/MR No	: AMP.0000004090	Collected	: 21/Aug/2023 01:53PM
Patient Name	: Mr.SHASHIKANT SHRIRAM SHELKE	Received	: 21/Aug/2023 05:54PM
Age/Gender	: 51 Y 0 M 0 D /M	Reported	: 23/Aug/2023 07:43PM
Ref Doctor	: SELF	Status	: Final Report
Barcode No	: 10074789	Client Code	: 78
Client Name	: STANDARD		

DEPARTMENT OF HAEMATOLOGY

BLOOD GROUP ABO & RH

BLOOD GROUP ABO AND RH FACTOR, WHOLE BLOOD EDTA		
TEST NAME	RESULT	METHOD
BLOOD GROUP TYPE	"A"	Forward & Reverse Grouping with Slide Method
Rh TYPE	POSITIVE	Forward & Reverse Grouping with Slide Method



Checked By



Dr. Arindam Das
M.B.B.S., M.D.(Path)
Consultant Pathologist

Visit ID	: AMP4403	Registration	: 18/Aug/2023 08:00PM
UHID/MR No	: AMP.0000004090	Collected	: 21/Aug/2023 01:53PM
Patient Name	: MR. SHASHIKANT SHRIRAM SHELKE	Received	: 21/Aug/2023 05:54PM
Age/Gender	: 51 Y 0 M 0 D /M	Reported	: 23/Aug/2023 07:44PM
Ref Doctor	: SELF	Status	: Final Report
Barcode No	: 10074789	Client Code	: 78
Client Name	: STANDARD		

DEPARTMENT OF HAEMATOLOGY

Test Name	Result	Unit	Bio. Ref. Range
TC,DC,ESR			
Sample Type : WHOLE BLOOD EDTA			
TOTAL LEUCOCYTE COUNT Electronic Impedance	7,300	/cu.mm	4000-10000
DIFFERENTIAL LEUCOCYTE COUNT			
NEUTROPHIL Microscopy	52	%	40-80
LYMPHOCYTE Microscopy	45	%	20-40
EOSINOPHIL Microscopy	2	%	1-6
MONOCYTE Microscopy	1	%	2-10
BASOPHIL Microscopy	0	%	<1-2
ERYTHROCYTE SEDIMENTATION RATE Modified Westergren	12	mm	<10 mm after 1st hour

*** End Of Report ***



Checked By



Dr. Arindam Das
M.B.B.S., M.D. (Path)
Consultant Pathologist

Page 2 of 2

Test Performed at: No 28, 80 Feet Road Hal 3rd Stage

Optom. Nirmalya Chakraborty

DOS (Cal)

Consultant Optometrist



Enhancing lives — inspiring better health

(146) Date: 18.8.23
Name: Sashikant Shiram shewi Age: 54 Sex: M

C/O :

dv (PSE)

R just tears of.
(PSE) 0000
4rimb & 4WWS.

H/U :

PSE VLB
2MB
i glom

Adh
18.8.23

Systemic Disease :

GLASS PRESCRIPTION

	Right Eye				Left Eye			
	DSPH	DCPL	AXIS	V/A	DSPH	DCPL	AXIS	V/A
Distance (DV)								
Near Add (NV)								

Remarks :

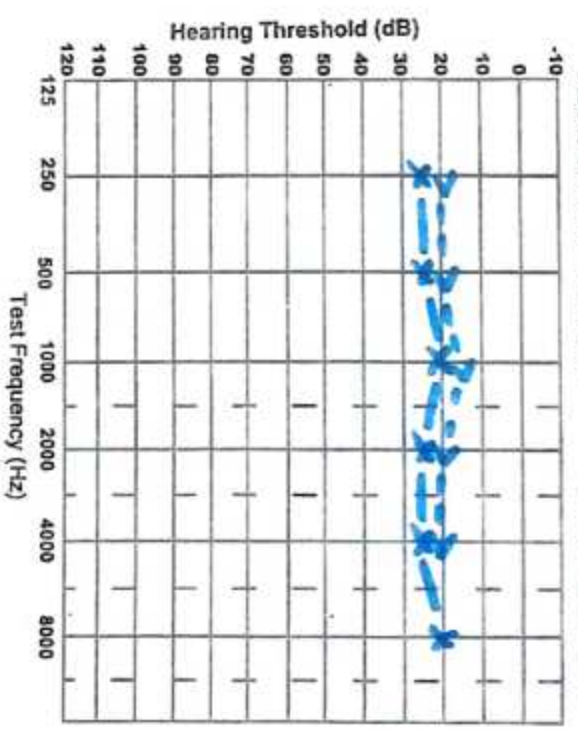
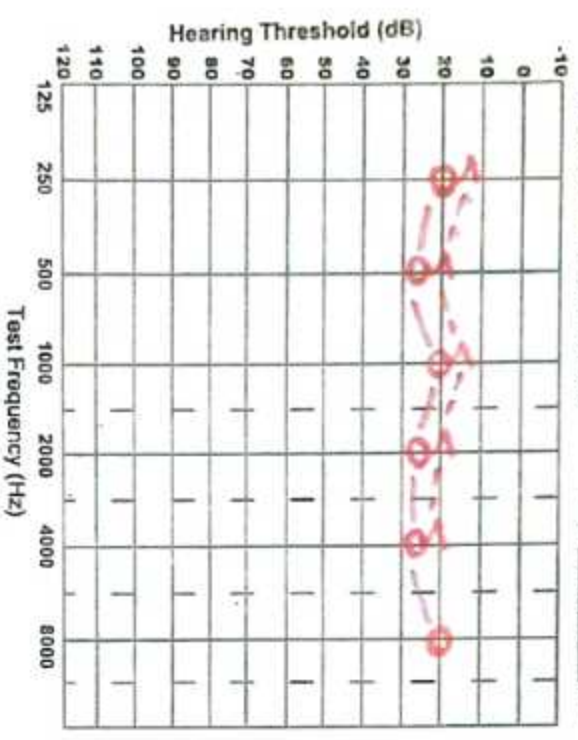


181A, Sarat Bose Road (Opposite Deshpriya Park), Kolkata- 700 026 | Kalpataru Heights, BC-70, 71, Anurupa Pally, Kolkata-700 101
 Time : (Mon to Fri : 11AM to 7PM, Sat 11AM to 5PM, SUNDAY CLOSED)
 Phone : 033-2463-0237 / 8910258067

Calcutta Hearing Clinic

AUDIOMETRY REPORT

Name : Sheshikant Shrivastava Shelke (RMI30690) Age : 514 Sex : M
 Referred By : Date : 18/08/23
 AUDIOGRAM : RIGHT EAR PTA 23.3 dB
 AUDIOGRAM : LEFT EAR PTA 23.3 dB



MODE	Air Conduction			Bone Conduction			Colour Code
EAR	Masked	Unmasked	Masked	Unmasked	Masked	Unmasked	
LEFT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Blue
RIGHT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Red
NO RESPONSE Δ Add 20 below the respective symbols							

ADDITIONAL TESTS	TEST	LEFT	RIGHT
SISI SCORE			
TONEDICKEY COUNT			
ABLBI			
SPEECH AUDIOMETRY			
ST Threshold		dB	
SD Score		%	
Threshold of Discomfort		dB	
TUNNING FORK TEST			
Rinne			
Weber			
OTHER TESTS			

Case History :
 Diagnosis :
 RT Ear : }
 LT Ear : } *Bilateral hearing sensitivity within normal limits.*
 Remarks :
 Advice :

PARTHA P. GHOSH
 AUDIOLOGIST, SPEECH PATHOLOGIST
 (AISHI) Mysore
 RCI Regn. No.-A06187

Signature.....
 AUDIOLOGIST, SPEECH THERAPIST
 HEARING AID SPECIALIST



ॐ

ALOKA MEDICARE PVT. LTD.

Formerly *Calcutta Heart Research Centre*
Website : www.alokamedicare.in, Email : mail@alokamedicare.in
CIN : U85110WB1992PTC055426

Patient Name	: Mr.SHASHIKANT SHRIRAM SHELKE	Bill No	: AMP4403
Age/Gender	: 51 Y 0 M 0 D /M	Reg.Date	: 18/Aug/2023 08:00PM
Referred By	: Dr.SELF	Reported	: 19/Aug/2023 01:15PM
Centre Name	: STANDARD	Report Status	: Final Report

DEPARTMENT OF X-RAY

X-RAY CHEST PA VIEW

STUDY SHOWS

- Lung fields appear clear.
- Both hila are normal.
- Mediastinum is central.
- Transverse cardiac diameter is within normal limits.
- Both CP angles are clear.
- Both hemidiaphragm are normal.
- Rib cage and spine appears normal.

IMPRESSION:

- No significant abnormality detected.

*** End Of Report ***



Checked By

DR. J. PAL
M.D.
RADIOLOGIST

H O & Lab :
114-B, Saral Bose Road, Kolkata-700 029, 78900 78966, 95200 95201

Other Clinics :
169, G T Road (S), Shibpur, Near Aloka Cinema, Hwh - 002, 98368 12298
2G, N S Road, Shantinagar Colony, Liluah, Hwh - 204, 93313 17276



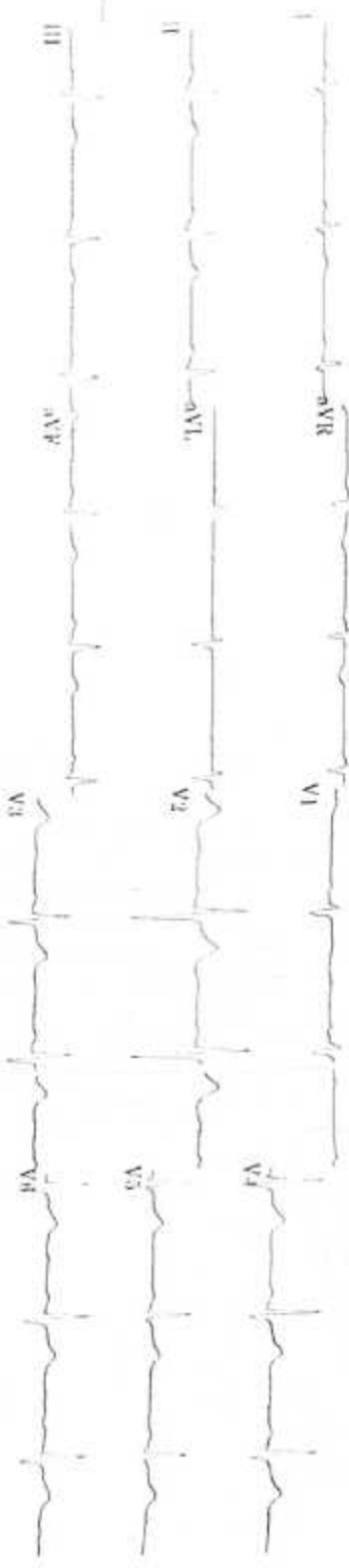


CHEST PA VIEW

SHASHIKANTHURAM SHILAKH 5/1/11

18-03-2011

11311



Vent. rate 67 bpm
 QRS duration 82 ms
 QT QTc 394 416 ms
 PR interval 146 ms
 P duration 100 ms
 HR interval 893 ms
 P-R-T axes 64 65 56

HEALTH

(Proceedings under Rules 65 & 74 of The West Bengal Prevention of Epidemics Act, 1958)

- Name of the Reportee - *MS 30511*
- Name of the Reporting Authority - *Suburban Council No. 200-*
- Name of the Reportee - *MS 30511*

Sl. No.	Name of the Reportee	Address of the Reportee	Date of Onset of Disease	Date of Reporting	Name of the Reporting Authority	Name of the Medical Officer	Remarks	
							(i)	(ii)
1	MS 30511			10/12/58				

REGISTER

As amended vide Notification No. 108-LW-30-591 dated 27th Nov. 1959

Sl. No.	Name of the Reportee	Address	Date of Onset of Disease	Date of Reporting	Name of the Reporting Authority	Name of the Medical Officer	Remarks	
							(i)	(ii)
1	MS 30511			10/12/58				

MS 30511
MS 30511
MS 30511
MS 30511
MS 30511

MS 30511
MS 30511
MS 30511

Notes: 1. This form has to be filled up in duplicate.
 2. This form has to be filled up in duplicate.

Visit ID	: AMP4403	Registration	: 18/Aug/2023 08:00PM
UHID/MR No	: AMP.0000004090	Collected	: 21/Aug/2023 01:53PM
Patient Name	: Mr.SHASHIKANT SHRIRAM SHELKE	Received	: 21/Aug/2023 05:54PM
Age/Gender	: 51 Y 0 M 0 D /M	Reported	: 23/Aug/2023 07:43PM
Ref Doctor	: SELF	Status	: Final Report
Barcode No	: 10074789	Client Code	: 78
Client Name	: STANDARD		

DEPARTMENT OF HAEMATOLOGY

BLOOD GROUP ABO & RH

BLOOD GROUP ABO AND RH FACTOR, WHOLE BLOOD EDTA		
TEST NAME	RESULT	METHOD
BLOOD GROUP TYPE	"A"	Forward & Reverse Grouping with Slide Method
Rh TYPE	POSITIVE	Forward & Reverse Grouping with Slide Method



Checked By



Dr. Arindam Das
M.B.B.S., M.D.(Path)
Consultant Pathologist

Visit ID	: AMP4403	Registration	: 18/Aug/2023 08:00PM
UHID/MR No	: AMP.0000004090	Collected	: 21/Aug/2023 01:53PM
Patient Name	: MR. SHASHIKANT SHRIRAM SHELKE	Received	: 21/Aug/2023 05:54PM
Age/Gender	: 51 Y 0 M 0 D /M	Reported	: 23/Aug/2023 07:44PM
Ref Doctor	: SELF	Status	: Final Report
Barcode No	: 10074789	Client Code	: 78
Client Name	: STANDARD		

DEPARTMENT OF HAEMATOLOGY

Test Name	Result	Unit	Bio. Ref. Range
TC,DC,ESR			
Sample Type : WHOLE BLOOD EDTA			
TOTAL LEUCOCYTE COUNT Electronic Impedance	7,300	/cu.mm	4000-10000
DIFFERENTIAL LEUCOCYTE COUNT			
NEUTROPHIL Microscopy	52	%	40-80
LYMPHOCYTE Microscopy	45	%	20-40
EOSINOPHIL Microscopy	2	%	1-6
MONOCYTE Microscopy	1	%	2-10
BASOPHIL Microscopy	0	%	<1-2
ERYTHROCYTE SEDIMENTATION RATE Modified Westergren	12	mm	<10 mm after 1st hour

*** End Of Report ***



Checked By



Dr. Arindam Das
M.B.B.S., M.D. (Path)
Consultant Pathologist

Page 2 of 2

Test Performed at: No 28, 80 Feet Road Hal 3rd Stage

Optom. Nirmalya Chakraborty

DOS (Cal)

Consultant Optometrist



Enhancing lives — inspiring better health

(146)

Date: 18.8.23

Name: Sashikant Shiram

Age: 54

Sex: M

C/O:

dv (PSE)

R just tears of.
PSE 0000
4 hrs & 4 hrs.

H/U:

PSE VLB
PMB
E glom

Adh
18.8.23

Systemic Disease :

GLASS PRESCRIPTION

	Right Eye				Left Eye			
	DSPH	DCPL	AXIS	V/A	DSPH	DCPL	AXIS	V/A
Distance (DV)								
Near Add (NV)								

Remarks :



181A, Sarat Bose Road (Opposite Deshpriya Park), Kolkata-700 026 | Kalpataru Heights, BC-70, 71, Anurupa Pally, Kolkata-700 101
Time : (Mon to Fri : 11AM to 7PM, Sat 11AM to 5PM, SUNDAY CLOSED)
Phone : 033-2463-0237 / 8910258067

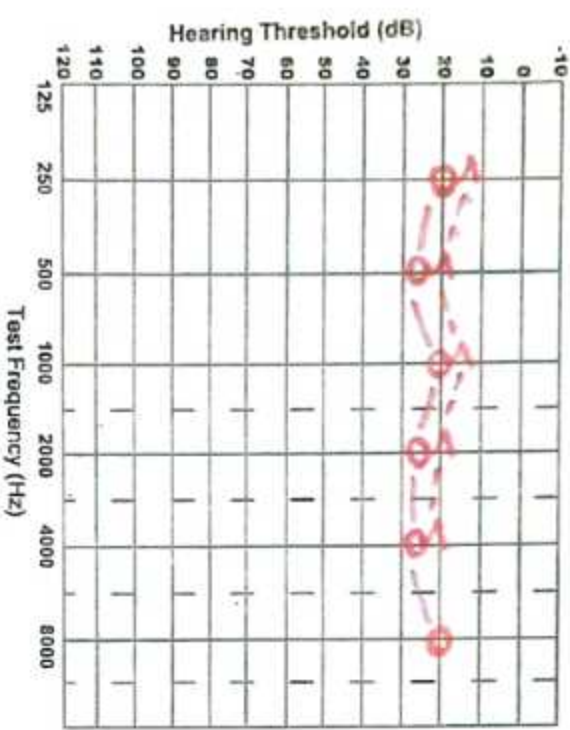
Calcutta Hearing Clinic

AUDIOMETRY REPORT

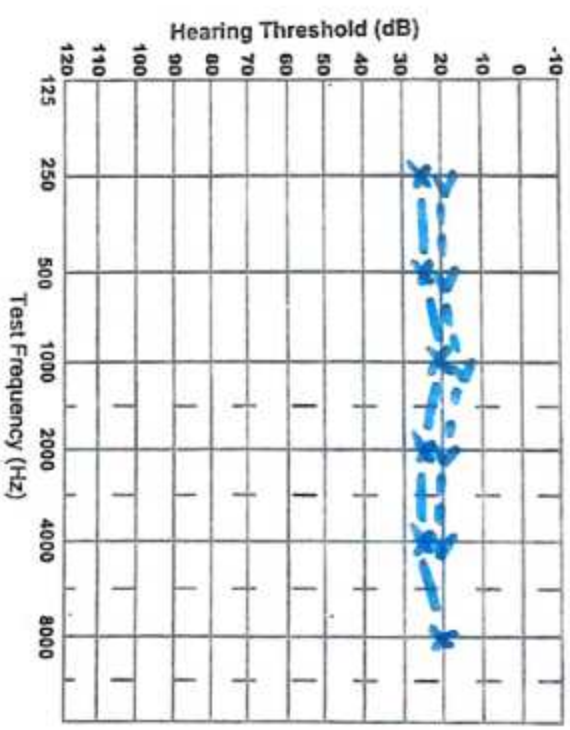
Name : Sheshikant Shrivastava Shelke (RMI30690) Age : 514 Sex : M

Referred By : Date : 18/08/23

AUDIOGRAM : RIGHT EAR PTA 23.3 dB



AUDIOGRAM : LEFT EAR PTA 23.3 dB



MODE	Air Conduction			Bone Conduction			Colour Code
EAR	Masked	Unmasked	Masked	Unmasked	Masked	Unmasked	
LEFT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Blue
RIGHT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Red
NO RESPONSE Δ Add 20 below the respective symbols							

ADDITIONAL TESTS	TEST	LEFT	RIGHT
SISI SCORE			
TONEDICAVY COUNT			
ABLBI			
SPEECH AUDIOMETRY			
ST Threshold		dB	dB
SD Score		%	%
Threshold of Discomfort		dB	dB
TUNNING FORK TEST			
Rinne			
Weber			
OTHER TESTS			

Case History :

Diagnosis :

RT Ear :

LT Ear :

Remarks :

Advice :

Bilateral hearing sensitivity within normal limits.

PARTHA P. GHOSH

AUDILOGIST, SPEECH PATHOLOGIST
(AIISH) Mysore

RCI Regn. No.-A06187

Signature.....

AUDILOGIST, SPEECH THERAPIST
HEARING AID SPECIALIST



ॐ

ALOKA MEDICARE PVT. LTD.

Formerly *Calcutta Heart Research Centre*
Website : www.alokamedicare.in, Email : mail@alokamedicare.in
CIN : U85110WB1992PTC055426

Patient Name	: Mr.SHASHIKANT SHRIRAM SHELKE	Bill No	: AMP4403
Age/Gender	: 51 Y 0 M 0 D /M	Reg.Date	: 18/Aug/2023 08:00PM
Referred By	: Dr.SELF	Reported	: 19/Aug/2023 01:15PM
Centre Name	: STANDARD	Report Status	: Final Report

DEPARTMENT OF X-RAY

X-RAY CHEST PA VIEW

STUDY SHOWS

- Lung fields appear clear.
- Both hila are normal.
- Mediastinum is central.
- Transverse cardiac diameter is within normal limits.
- Both CP angles are clear.
- Both hemidiaphragm are normal.
- Rib cage and spine appears normal.

IMPRESSION:

- No significant abnormality detected.

*** End Of Report ***



Checked By

DR. J. PAL
M.D.
RADIOLOGIST

H O & Lab :
114-B, Saral Bose Road, Kolkata-700 029, 78900 78966, 95200 95201

Other Clinics :
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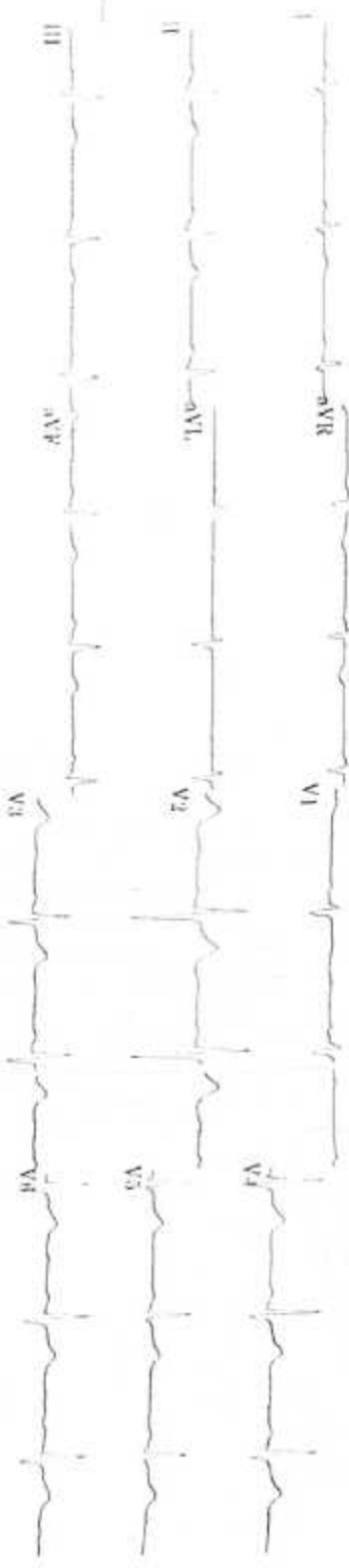


CHEST PA VIEW

SHASHIKANTHURAM SHILKOTI 5/1/11

18-03-2011

11311



Vent. rate 67 bpm
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 P duration 100 ms
 HR interval 893 ms
 P-R-T axes 64 65 56

1. Serial No. of the Register to which entered: **981 23142**
2. Name of the holder: **Jogesh Chandra Das**
3. Sex: **M** Date of issue: **21-07-1975**

(Prescribed under Rules 53 & 54 of the West Bengal Registration Rules, 1964)

as amended under Notification No. 103-LW-43491 dated 27th Nov. 1970.

Description of the holder		Name of the holder		Date of issue		Date of expiry	
1	2	3	4	5	6	7	8
Female		ES. Das	Manager				

Description of the holder		Name of the holder			Date of issue		Date of expiry	
1	2	3	4	5	6	7	8	
Male		ES. Das	Manager					
Male		ES. Das	Manager					

EP- 122/22-00-0000
ES-70 205-00-0000
Chit. N. P. Das N.
E. J. Das B. C. P. Das
Statistical Association

(Signature)
21-07-1975
21-07-1975

Printed and Published by the Registrar, Kolkata.

(Prescribed under Rules 65 & 66 of The West Bengal Factories Act, 1948)

as amended vide Notification No. 103-LA-WB-691 dated 27th Nov. 1991.

1. Name of the Employer or Agent or other: KMI JONES

2. Name of worker: Hrushikesh Biswas

3. Age: 47 Date of birth: 24-07-1942

Department or Job	Name of Employer or Agent or other	Designation of worker or other	Name of the factory or premises	For recording purposes only as prescribed under the Act or otherwise	Date of joining	Date of leaving or date of last work	Reason for the leave or date of the work	Medical
								Days in which a complete examination is to be conducted
								30-07-77
			ASST (low)					
			Ministry					

Examination after the first six months		If conducted after six months				
Date of joining or date of last work	Result of last examination	Period of Temporary Absence (No. of Days)	Reasons for such absence	Date of joining or date of last work	Date of joining or date of last work	
88	91	92	93	94	95	96
	RF-10/10/10/10/10	Fil				
	H-21 10/10/10/10/10					
	Slud. group B3/B4					
	Chol. Test (1/1/1/1/1)					
	Eye Test (1/1/1/1/1)					

HEALTH

1. Name of patient *John M. ...*
2. Name of mother *John M. ...*
3. Date of birth *09-30-1946*

(Prescribed under Public Health Act No. 64 of the West Bengal Customs Rules, 1950)

4. Name of doctor
5. Name of hospital
6. Name of dispensary
7. Name of health centre
8. Name of health sub-centre
9. Name of health worker
10. Name of health assistant
11. Name of health visitor
12. Name of health inspector
13. Name of health officer

Table with 13 columns and multiple rows, mostly empty. Headers correspond to items 4-13 in the text above.

REGISTER

as amended vide Notification No. 103-130-10-07 dated 27th Nov, 1953

1. Name of patient
2. Name of mother
3. Name of father
4. Name of health worker
5. Name of health assistant
6. Name of health visitor
7. Name of health inspector
8. Name of health officer

Table with 8 columns and multiple rows. Row 1 contains handwritten text: *RF - 12/10/46 ...*. There is a signature in the right margin.

Prescribed under Rules 65 & 69 of The West Bengal Preventive Services Rules, 1981

as amended vide Notification No. 1003-LW-III-491 dated 27th Nov, 1981

Name of the **Personnel** **Dr. P. K. Das**
 Designation **11-92-1592**

1	2	3	4	5	6	7	8	9
Department	Post	Name of the person	From (month, year) to (month, year)	Date of birth	Sex	Height in feet	Weight in lbs	Sign and signature

1 **General**
 2
 3 **EC Engineer**
 4
 5 **24-06-78**
 6
 7
 8
 9

3 (Insert not used for entry)

4 (Insert not used for entry)

10	11	12	13	14	15
Issue of health card	Recd. of health card	Expiry of health card	Remarks on health card	Date of last medical examination	Date of last physical examination

10
 11
 12
 13
 14
 15

[Signature]
DR. P. K. DAS
 11-92-1592
 18-11-81

