



Government of India  
Ministry of Environment, Forest and Climate Change  
(Impact Assessment Division)

To,

The Director  
RASHMI GREEN HYDROGEN STEEL PRIVATE LIMITED  
9 AJC Bose Road 1st Floor, Ideal Center Kolkata WB 700017  
India.,Kolkata,West Bengal-700017

**Subject:** Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the Ministry vide proposal number IA/WB/IND1/414629/2023 dated 22 Jan 2023. The particulars of the environmental clearance granted to the project are as below.

- |  |  |
|--|--|
| 1. EC Identification No.                   | EC23A008WB113189   |
| 2. File No.                                | IA-J-11011/102/2022-IA-II(IND-I)   |
| 3. Project Type                            | New  |
| 4. Category                                | A  |
| 5. Project/Activity including Schedule No. | 3(a) Metallurgical industries (ferrous & non ferrous)  |
| 6. Name of Project                         | 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 |
| 7. Name of Company/Organization            | RASHMI GREEN HYDROGEN STEEL PRIVATE LIMITED  |
| 8. Location of Project                     | West Bengal  |
| 9. TOR Date                                | N/A  |

The project details along with terms and conditions are appended herewith from page no 2 onwards.

Date: 07/03/2023

(e-signed)  
Dr. R. B. Lal  
Scientist F  
IA - (Industrial Projects - 1 sector)

*Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH. Please quote identification number in all future correspondence.*

*This is a computer generated cover page.*



**F. No. IA-J-11011/102/2022-IA-II(I)**  
**Government of India**  
**Ministry of Environment, Forest and Climate Change**  
**(I.A. Division – Industry I sector)**

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**Indira Paryavaran Bhawan**  
**Vayu Wing, 3<sup>rd</sup> Floor,**  
**Jor Bagh Road, Aliganj,**  
**New Delhi – 110003**

**Dated: 7<sup>th</sup> March, 2023**

To,

**M/s Rashmi Green Hydrogen Steel Private Limited**  
9 AJC Bose Road 1st Floor, Ideal Center Kolkata  
West Bengal-700017  
Email: [rashmi.greenhydrogen@gmail.com](mailto:rashmi.greenhydrogen@gmail.com)

**Project: 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 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—Grant of Environmental Clearance.**

Sir,

This refers to your proposal no. IA/WB/IND1/414629/2023 dated 22.01.2023 received through PARIVESH Portal for grant of Environmental Clearance (EC) for the project mentioned above. Further PP has uploaded the information on Parivesh portal on 13.02.2023.

2. As per the provisions of the Environment Impact Assessment (EIA) Notification, 2006, the above-mentioned project/activity is covered under category 'A' of schedule no. 3(a) Metallurgical industries (ferrous & non-ferrous), 1(d) Captive Power Plant, 2 (b) Mineral beneficiation and 4(b) Coke oven Plant under Category "A" of the schedule of the EIA Notification, 2006 and appraised at central level.

3. The proposal is considered in the 22<sup>nd</sup> meeting of the EAC for Industry-I sector held on 30-31<sup>st</sup> January, 2023, wherein the Committee, after detailed deliberations, recommended the proposal. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed at <https://parivesh.nic.in>.

4. The details of the proposal are as per the EIA/EMP report submitted by the proponent. The salient features of the proposal as presented during the above-mentioned meetings of EAC (Industry 1 Sector) are as under: -

S. No.	Particulars	Details submitted by PP
a.	Terms of Reference for undertaking EIA study	18.07.2022
b.	Period of baseline data collection	1st December 2021 to 28th February 2022
c.	Date of Public Consultation	04th November, 2022
d.	Action plan to	An amount of Rs. 45.0 Cr has been earmarked to address the issues



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	address the PH issues	raised during public hearing attached as <b>Annexure 1.</b>																																																																																																																																																																											
e.	Location of the project	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.																																																																																																																																																																											
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42.	Point 42	22°19'58.55"N	87°24'3.86"E
43.	Point 43	22°19'58.85"N	87°24'4.38"E
44.	Point 44	22°20'0.29"N	87°24'4.53"E
45.	Point 45	22°20'0.32"N	87°24'5.46"E
46.	Point 46	22°20'0.57"N	87°24'5.52"E
47.	Point 47	22°20'1.35"N	87°24'5.28"E
48.	Point 48	22°20'1.71"N	87°24'6.34"E
49.	Point 49	22°20'3.07"N	87°24'5.92"E
50.	Point 50	22°20'3.08"N	87°24'4.85"E
51.	Point 51	22°20'2.49"N	87°24'4.67"E
52.	Point 52	22°20'2.73"N	87°24'3.82"E
53.	Point 53	22°20'2.70"N	87°24'3.37"E
54.	Point 54	22°20'3.33"N	87°24'3.41"E
55.	Point 55	22°20'3.63"N	87°24'2.13"E
56.	Point 56	22°20'3.81"N	87°24'2.07"E
57.	Point 57	22°20'4.00"N	87°24'2.38"E
58.	Point 58	22°20'5.00"N	87°24'2.34"E
59.	Point 59	22°20'4.96"N	87°24'1.91"E
60.	Point 60	22°20'3.55"N	87°24'1.87"E
61.	Point 61	22°20'3.42"N	87°24'1.09"E
62.	Point 62	22°20'3.69"N	87°24'1.07"E
63.	Point 63	22°20'3.78"N	87°24'0.93"E
64.	Point 64	22°20'4.54"N	87°24'0.80"E
65.	Point 65	22°20'4.65"N	87°23'59.86"E
66.	Point 66	22°20'4.36"N	87°23'59.78"E
67.	Point 67	22°20'4.46"N	87°23'59.36"E
68.	Point 68	22°20'5.11"N	87°23'59.40"E
69.	Point 69	22°20'5.23"N	87°23'59.82"E
70.	Point 70	22°20'5.50"N	87°23'59.83"E
71.	Point 71	22°20'5.61"N	87°23'59.62"E
72.	Point 72	22°20'6.76"N	87°23'59.79"E
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78.	Point 78	22°20'4.40"N	87°23'56.69"E
79.	Point 79	22°20'3.61"N	87°23'56.70"E
80.	Point 80	22°20'3.19"N	87°23'56.57"E
81.	Point 81	22°20'1.91"N	87°23'56.63"E
82.	Point 82	22°20'2.12"N	87°23'54.42"E
83.	Point 83	22°20'3.04"N	87°23'54.47"E
84.	Point 84	22°20'14.98"N	87°23'50.26"E
85.	Point 85	22°20'41.16"N	87°24'3.55"E
86.	Point 86	22°20'44.97"N	87°23'48.85"E
87.	Point 87	22°20'27.53"N	87°23'41.30"E
88.	Point 88	22°20'27.73"N	87°23'34.14"E
89.	Point 89	22°20'15.35"N	87°23'32.09"E
90.	Point 90	22°20'2.79"N	87°23'46.21"E





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		95.	Point 95	22°19'54.28"N	87°23'55.36"E																											
		96.	Point 96	22°19'54.15"N	87°23'53.79"E																											
		97.	Point 97	22°19'54.65"N	87°23'52.78"E																											
		98.	Point 98	22°19'54.03"N	87°23'52.34"E																											
		99.	Point 99	22°19'34.11"N	87°23'50.48"E																											
		100.	Point 100	22°19'33.29"N	87°23'48.45"E																											
g.	Total land	112.10 ha [Agriculture: 60.70 ha; Other Land (Industrial): 51.40 ha]																														
h.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	Out of the 105.22 Hectares (260 acres) of plant area land, 90.03 Hectares (222.47 acres) of land in in possession of the company and for rest of plant area land measuring 15.19 Hectares (37.53 acres) along with 6.88 Hectares (17.0 acres) of additional land for rail corridor & road access consent obtained from private rayat.																														
i.	Existence of habitation & involvement of R&R, if any	<p><b>Project Site:</b> No habitation in the proposed site.</p> <p><b>Study Area:</b></p> <table border="1"> <thead> <tr> <th>Habitation</th> <th>Distance</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Khatranga</td> <td>Adjacent to plant boundary</td> <td>W</td> </tr> <tr> <td>Gopinathpur</td> <td>2.5 km</td> <td>SE</td> </tr> <tr> <td>Goalara</td> <td>1.2 km</td> <td>NE</td> </tr> <tr> <td>Radhanagar</td> <td>2.5 km</td> <td>NNW</td> </tr> <tr> <td>Kharagpur</td> <td>7.5 km</td> <td>W</td> </tr> </tbody> </table>				Habitation	Distance	Direction	Khatranga	Adjacent to plant boundary	W	Gopinathpur	2.5 km	SE	Goalara	1.2 km	NE	Radhanagar	2.5 km	NNW	Kharagpur	7.5 km	W									
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j.	Elevation of the project site	Elevation of the project site varies from 26 m to 30 m AMSL.																														
k.	Involvement of Forest land if any.	No forest land is involved in the proposed site. NOC from DFO, Kharagpur Division, Paschim Medinipur, Govt. of West Bengal obtained vide letter no-91/8-3(LR)/Rashmi/2023 dated 13.01.2023 has been submitted.																														
l.	Water body exists within the project site as well as study area	<p><b>Project site:</b>06 Nos. manmade artificial ponds.</p> <p><b>Study area:</b></p> <table border="1"> <thead> <tr> <th>Water body</th> <th>Distance</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Digra Pond</td> <td>3.30 km</td> <td>W</td> </tr> <tr> <td>Kajla Pond</td> <td>1.85 km</td> <td>NW</td> </tr> <tr> <td>Paiknagari pond</td> <td>3.25 km</td> <td>E</td> </tr> <tr> <td>Changual Pond</td> <td>1.45 Km</td> <td>SW</td> </tr> <tr> <td>Midnapore High Level Canal</td> <td>4.0 km</td> <td>N</td> </tr> <tr> <td>Kapaleshwari Khal</td> <td>4.5 Km</td> <td>SE</td> </tr> <tr> <td>Kangsabati River</td> <td>5.0 Km</td> <td>N</td> </tr> <tr> <td>Jakala Nalla</td> <td>2.5 Km</td> <td>NW</td> </tr> </tbody> </table>				Water body	Distance	Direction	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	Jakala Nalla	2.5 Km	NW
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m.	Existence of ESZ / ESA / national park / wildlife Sanctuary / biosphere Reserve / tiger reserve / elephant reserve etc.	<p>Nil</p> <ul style="list-style-type: none"> <li>Two protected forests lies in the study area the details are: <ul style="list-style-type: none"> <li>✓ ~7.5 km in South West and</li> <li>✓ ~10.0 km in South West direction</li> </ul> </li> </ul> <p>Griffins International School – 0.45 km &amp; Khatranga School – 0.46 are in</p>																														



S. No.	Particulars	Details submitted by PP		
	if any within the study area	close proximity to the project site, Environmental safeguards to be adopted in this regard has to be submitted		
n.	Project cost	The capital cost of the proposed project is ₹ 2,900 Crores		
o.	EMP cost	Type	Capital (Rs. in Crores)	Recurring (Rs. in Crores)
		Proposed	Rs. ₹ 400.0 Crores	Rs. 40 Crores
p.	Employment opportunity	The employment generation from the proposed project is 3,000 (Direct employment - Regular & Contractual).		
q.	Water and Power requirement	Water – The water requirement for the proposed project is estimated as 11,000 m <sup>3</sup> /day		

### Unit configuration and capacity:

S. No.	Plant Equipment/ Facility	Configuration	Capacity	Remarks (Product)
1.	Blast Furnace with matching	3 x 750 m <sup>3</sup>	3.0 Million TPA	Molten Metal
	PCM	3 x 3000 TPD		Pig Iron
	LD Converter & CCM	1 x 125 Ton + 1 x 100 Ton		High Quality Billets, Slab
2.	Sinter Plant	2 x 130 m <sup>2</sup> + 1 x 70 m <sup>2</sup>	4.0 Million TPA	Iron Ore Sinter
3.	Ferro Alloy Plant with matching jigging & briquette plant	4 x 9 MVA	0.070 Million TPA	FeSi , FeCr , FeMn, SiMn,
4.	Non-recovery type Coke Oven Plant	2 x 0.5 MTPA	1.0 Million TPA	Metallurgical Coke
5.	Seamless Tube/ Pipe Line	***	0.5 Million TPA	Seamless Tube/ Pipe
6.	Strip Mill/ CRM	***	2.0 Million TPA	H.R. Plate/ Coil Flat Products
	Pickling Line & Galvanizing Line	***		Galvanised Product
7.	Ductile Iron Pipe Unit, Fitting & Accessories Plant	***	0.6 Million TPA	Ductile Iron, Pipe, Fitting & Accessories
8.	Oxygen Plant	3 x 200 TPD	600 TPD	Oxygen
9.	Lime Dolomite Plant	3 x 200 TPD	600 TPD	Lime dolomite
10.	Pellet Plant with matching wet grinding	2 x 0.6 Million TPA	1.2 Million TPA	Iron Ore Pellet
11.	Producer Gas Plant	15 x 7,500 Nm <sup>3</sup> /hr	1,12,500 Nm <sup>3</sup> /Hr	Producer Gas
12.	Captive Power Plant	<b>80 MW WHRB Based</b> (69 MW from Coke Oven Plant + 11 MW from TRT MBF)  <b>150 MW CFBC</b> (3 x 50 MW Coal Based)	230 MW	Power
13.	Railway Siding	01 No.	01 No.	Raw Material/ Finished Product



S. No.	Plant Equipment/ Facility	Configuration	Capacity	Remarks (Product)
				Transportation

5. The EAC, in its meeting held during 30-31<sup>st</sup> January, 2023, inter-alia, deliberated the following:

- i. The instant proposal is for setting up of a Greenfield Integrated Steel Plant of capacity 3.1 Million Ton per Annum (Finished Steel) along with 230 MW (80 MW WHRB/TRT based + 150 MW Coal based) Captive Power Plant.
- ii. The EAC, constituted under the provision of the EIA Notification, 2006 comprising Expert Members/domain experts in various fields, examined the proposal submitted by the Project Proponent in desired format along with EIA/EMP reports prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.
- iii. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.
- iv. The Committee noted that the EIA reports are in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components. The Committee deliberated on the proposed mitigation measure towards Air, Water, Noise and Soil pollutions. The Committee suggested that the storage of toxic/explosive raw materials/products shall be undertaken with utmost precautions and following the safety norms and best practices.
- v. Total project land is 112.10 ha. Out of the 105.22 Hectares (260 acres) of plant area land, 90.03 Hectares (222.47 acres) of land in possession of the company and for rest of plant area land measuring 15.19 Hectares (37.53 acres) along with 6.88 Hectares (17.0 acres) of additional land for rail corridor & road access consent obtained from private rayat.
- vi. No forest land is involved in the proposed site. NOC from DFO, Kharagpur Division, Paschim Medinipur, Govt. of West Bengal obtained vide letter no-91/8-3(LR)/Rashmi/2023 dated 13.01.2023 has been submitted.
- vii. 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). The EAC noted that in order to minimize the impact on environmental sensitivity area thick Green belt to a width of 30 meters with a tree density of about 2500 trees/ha consisting of at least 3 tiers will be developed as a green buffer, also land use based unit is proposed to be set up and BAT available APC device to keep the emission below 30 mg/Nm<sup>3</sup>.
- viii. 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. The EAC is of the opinion that water bodies shall not be disturbed. Mitigation measures w.r.t. safeguarding the water bodies shall be implemented.





- ix. Griffins International School – 0.45 km & Khatranga School – 0.46 are in close proximity to the project site. The EAC is of the opinion that Environmental safeguards shall be adopted in this regard.
- x. The water requirement for the proposed project is estimated as 11,000 m<sup>3</sup>/day, out of which 10,850 m<sup>3</sup>/day of fresh water requirement will be obtained from the Surface Water (Kangsabati River) & Rainwater Harvesting Structure. Tie-up made for water demand with associate company and the remaining requirement of 150 m<sup>3</sup>/day will be met from the ground water (Domestic purpose).
- xi. The EAC noted that M/s. Rashmi Green Hydrogen Steel Private Limited has proposed to adopt 08 nos. of Villages namely Khatranga, Chakmakrampur, Jethia, Gopinathpur, Goyalara, Kajala, Changual & Radhanagar as a part of Social welfare development based on need based assessment carried.
- xii. The greenbelt development will be covered 35.0% of the plant 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. Also, 1,350 nos. of tree sapling shall be planted on both side of road corridor on additional land to be used for road access. Additional under EMP for Social & Infrastructure development Avenue plantation will be done in nearby villages by planting at least 2,00,000 Nos. of trees. (40,000 nos. of trees in Gopinathpur, Jethia, Khatranga, Goyalara and Changual villages in 03 years). The EAC deliberated on the greenbelt action plan and found it satisfactory.
- xiii. The Committee has found that the baseline data and incremental GLC due to the proposed project within NAAQ standards.
- xiv. The committee deliberated details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found them to be satisfactory.
- xv. The Committee also deliberated on the public hearing issues along with revised action plan submitted by the proponent to address the issues raised during the public hearing and found it satisfactory.
- xvi. The EAC deliberated on the written submission of project proponent and found it satisfactory.
- xvii. The EAC deliberated on the proposal with due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC found the proposal in order and recommended for grant of environmental clearance.
- xviii. The environmental clearance recommended to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. 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. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

6. The EAC, in its **22<sup>nd</sup> meeting of Expert Appraisal Committee (Industry-1 Sector) held on 30-31<sup>st</sup> January, 2023**, based on information & clarifications provided by the project proponent and after detailed deliberations **recommended** the instant proposal for grant of Environment Clearance subject to uploading the written submission on portal under the provisions of EIA Notification, 2006





subject to the stipulation of following specific conditions and general conditions as per the Ministry's Office Memorandum No. 22-34/2018-III dated 9/8/2018 based on project specific requirements

7. The MoEF&CC has examined the proposal in accordance with the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and after accepting the recommendations of the Expert Appraisal Committee (Industry-1 Sector) hereby decided to grant **Environment Clearance for instant proposal of M/s Rashmi Green Hydrogen Steel Private Limited** under the provisions of EIA Notification, 2006 subject to the following specific conditions and general conditions:

**A. Specific conditions:**

- (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.
- (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.
- (iii) The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.
- (iv) 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.
- (v) 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.
- (vi) 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.
- (vii) The water requirement of 11,000 m<sup>3</sup>/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.
- (viii) 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.
- (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.



- (x) 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.
- (xi) Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.
- (xii) Solid waste utilization
- PP shall install a slag crusher to convert steel slag into aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in cement making.
  - PP shall recycle/reuse solid waste generated in the plant as far as possible.
  - Used refractories shall be recycled as far as possible.
- (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.
- (xiv) Coke oven plant shall be equipped with modified wet quenching system.
- (xv) Tar shall be recovered from producer gas and shall be sold to registered processors.
- (xvi) Following additional arrangements to control fugitive dust shall be provided:
- 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.
  - Proper covered vehicle shall be used while transport of materials.
  - Wheel washing mechanism shall 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<sup>3</sup>), dry gas cleaning plant, stove waste heat recovery, cast house and stock house ventilation system and slag granulation facility.
- (xviii) Secondary fume extraction system shall be installed on converters of Steel Melting Shop.
- (xix) Basic Oxygen Furnace (BOF) gas shall be cleaned dry.
- (xx) Electric Arc Furnace shall be closed type with 4<sup>th</sup> hole extraction system.
- (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.
- (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.
- (xxiii) Dust emission from all the stacks shall be less than 30 mg/Nm<sup>3</sup>.
- (xxiv) Air Cooled condensers shall be used in the captive power plant.
- (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.

- (xxvi) Ductile Iron (DI) plant shall have the following provisions:
- Bag filter for Zn coating and Mg converter area.
  - Wet scrubbers in paint and bitumen coating area.
  - Bag Filter in Cement lining area.
  - PTFE dipped bags shall be used in the plant.
  - PM emissions from BF in Zinc coating area shall be 5 mg/Nm<sup>3</sup>.
  - ETP with recycling facility shall be included.
- (xxvii) Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.
- (xxviii) 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.
- (xxix) 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.
- (xxx) A proper action plan must be implemented to dispose of the electronic waste generated in the industry.
- (xxxi) 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.
- (xxxii) 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.
- (xxxiii) 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.





## **B. General conditions**

### **I. Statutory compliance:**

- i. The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.

### **II. Air quality monitoring and preservation**

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 04 Nos. Continuous Ambient Air Quality Station (CAAQS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- iii. Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions.
- 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.
- v. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
- vi. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
- 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.
- viii. The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
- 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).
- x. Land-based APC system shall be installed to control coke pushing emissions.
- xi. Monitor CO, HC and O2 in flue gases of the coke oven battery 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.
- xiii. Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
- xiv. Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.





### **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<sup>st</sup> March 2012 (Integrated iron & Steel); S.O. 3305 (E) dated 7<sup>th</sup> 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.
- 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.
- iii. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
- 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.
- v. Tyre washing facilities shall be provided at the entrance of the plant gates.
- vi. Water meters shall be provided at the inlet to all unit processes in the steel plants.

### **IV. Noise monitoring and prevention**

- i. Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.

### **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.
- ii. Restrict Gas flaring to < 1%.
- 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;
- iv. Provide LED lights in their offices and residential areas.
- v. Ensure installation of regenerative/recuperative type burners on all reheating furnaces.

### **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.
- ii. Kitchen waste shall be composted or converted to biogas for further use.

### **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



- 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.
- 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 monitorable with defined time frames.

#### **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.
- ii. The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.
- iii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained.

#### **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.
- ii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- 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.

#### **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.
- 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.



- 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.
- iv. 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.
- 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.
- 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.
- 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.
- viii. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- 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).
- 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.
- xi. 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.

8. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

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.

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.

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.

12. This issues with approval of the competent authority.



**(Dr. R. B. Lal)**  
**Scientist 'F'/ Director**  
Tel: 011-20819346  
[Email-rb.lal@nic.in](mailto:Email-rb.lal@nic.in)

**Encl. as above at Annexure –I**

**Copy to: -**

1. The Secretary, Department of Environment, Government of West Bengal, Secretariat Kolkata.
2. The Secretary, Department of Forests, Government of West Bengal, Kolkata.
3. The Director General of Forest, Ministry of Environment, Forest and Climate Change, New Delhi.
4. The Principal Chief Conservator of Forests, Government of West Bengal, Block LA, 10A Sector-III, Salt Lake City, Kolkata-700098.
5. The Deputy Director General of Forests (C), Integrated Regional Office, Ministry of Environment, Forest and Climate Change, IB-198, Sector-II, Salt Lake City, Kolkata – 700106
6. The Member Secretary, Central Pollution Control Board, CBD-Cum-Office Complex, East Arjun Nagar, New Delhi-110 032.
7. The Member Secretary, West Bengal State Pollution Control Board, Paribesh Bhawan, 10A-Block LA, Sector –III, Salt Lake City, Kolkata – 700 098.
8. The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi 110001.
9. The Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi.
10. District Collector, Paschim Medinipur, District, West Bengal.
11. Guard File/Monitoring File/Website/Record File/ Parivesh Portal



**(Dr. R. B. Lal)**  
**Scientist 'F'/ Director**  
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[Email-rb.lal@nic.in](mailto:Email-rb.lal@nic.in)





Table: Action Plan as per Ministry's O.M. dated 30/09/2020

S. No.	Physical activity and action plan		Year of implementation			Total Expenditure (₹ in Crores)																																																				
			(Budget in ₹)																																																							
	Name of the activity	Physical Targets	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>																																																					
(2023-24)			(2024-25)	(2025-26)																																																						
<b>PUBLIC HEARING BASED ACTIVITIES</b>																																																										
1	Local employment	Maximum employment will be given to the Local youth as per State Government norms based on their knowledge and skill. In addition, vocational training will be given for the employment to local. Total 300 persons will receive stipend of ₹ 12,500 per month for six months training.	₹ 1.125	₹ 1.125	₹ 1.125	₹ 3.375																																																				
		Vocational Training Center for Educated youth of villages and Skill development to unemployed local youth through National Skill Development Corporation, Govt. of India Scheme. (ITI, Paschim Medinipur 1 <sup>st</sup> year, 2 <sup>nd</sup> Year & 3 <sup>rd</sup> Year)	₹ 0.500	₹ 0.380	₹ 0.350	₹ 1.23																																																				
2	Proper action to control pollution.	Most effective and advanced stage technology having techno-economic viability for air pollution control devices of adequate capacity will be installed in parallel with implementation of the proposed plant and it will be regularly monitored by dedicated team.	<table border="1"> <thead> <tr> <th>S. No.</th> <th>Description of Item</th> <th>Capital Cost (in Crores)</th> <th>Recurring Cost (in Crores)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Cost of Air Pollution Control Devices/ System</td> <td>300</td> <td>30</td> </tr> <tr> <td>2</td> <td>Cost of Water conservation &amp; Pollution Control</td> <td>12.5</td> <td>2.0</td> </tr> <tr> <td>3</td> <td>Cost of Solid Waste Management System</td> <td>19.0</td> <td>1.9</td> </tr> <tr> <td>4</td> <td>Green belt development</td> <td>12.0</td> <td>0.6</td> </tr> <tr> <td>5</td> <td>Noise Reduction Systems</td> <td>6.0</td> <td>1.0</td> </tr> <tr> <td>6</td> <td>Occupational Health Management</td> <td>3.5</td> <td>0.4</td> </tr> <tr> <td>7</td> <td>Risk Mitigation &amp; Safety Plan</td> <td>3.0</td> <td>0.6</td> </tr> <tr> <td>8</td> <td>Environmental Monitoring Surveillance System</td> <td>7.88</td> <td>1.85</td> </tr> <tr> <td>9</td> <td>Implementation of Controlling measures to minimise impacts due to transportation and traffic</td> <td>5.0</td> <td>1.0</td> </tr> <tr> <td>10</td> <td>Setting Environmental Laboratory with necessary setup and manpower</td> <td>1.12</td> <td>0.65</td> </tr> <tr> <td>11</td> <td>EMP for Social and Infrastructure Development (Proposed): ➤ Addressal of public consultation concerns. ➤ Need based assessment. (Adopting 08 nos. of villages -Khatranga, Chakmakrampur, Jethia, Gopinathpur, Goalara, Kajla, Changual and Radhanagar in nearby project area)</td> <td>45.0</td> <td>-</td> </tr> <tr> <td colspan="2" style="text-align: center;"><b>Total</b></td> <td><b>415</b></td> <td><b>40</b></td> </tr> </tbody> </table>				S. No.	Description of Item	Capital Cost (in Crores)	Recurring Cost (in Crores)	1	Cost of Air Pollution Control Devices/ System	300	30	2	Cost of Water conservation & Pollution Control	12.5	2.0	3	Cost of Solid Waste Management System	19.0	1.9	4	Green belt development	12.0	0.6	5	Noise Reduction Systems	6.0	1.0	6	Occupational Health Management	3.5	0.4	7	Risk Mitigation & Safety Plan	3.0	0.6	8	Environmental Monitoring Surveillance System	7.88	1.85	9	Implementation of Controlling measures to minimise impacts due to transportation and traffic	5.0	1.0	10	Setting Environmental Laboratory with necessary setup and manpower	1.12	0.65	11	EMP for Social and Infrastructure Development (Proposed): ➤ Addressal of public consultation concerns. ➤ Need based assessment. (Adopting 08 nos. of villages -Khatranga, Chakmakrampur, Jethia, Gopinathpur, Goalara, Kajla, Changual and Radhanagar in nearby project area)	45.0	-	<b>Total</b>		<b>415</b>	<b>40</b>
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Also third party audit / monitoring will be conducted by approved lab/ agency on quarterly basis.																																																										
Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEFCC/ WBPCB with EC compliance report.																																																										
Plant will be design as Zero Liquid Discharge plant and entire waste water after treatment used in plant. For the proposed project 01 x 120 KLD STP and 1 x 600 KLD + 1 x 1000 KLD ETP will be installed.																																																										
The various waste materials arising out of the technological processes would be re-utilised to the extent possible. Hazardous waste will be disposed through the WBPCB																																																										

		approved agencies are sent to CHWTSDF, Haldia, W.B.				
3	Maintenance, Development & Construction of road in nearby villages	Construction, development & maintenance of the road, Cement/metal/ murrum in villages Khatranga, Jethia & Changual. (3.0 km in 1 <sup>st</sup> year in Khatranga village, 3.5 km in 2 <sup>nd</sup> year in Jethia and 3.5 km in 3 <sup>rd</sup> year in Changual). (1.0 Km @ cost of 1.25 Cr.)	₹ 4.375	₹ 4.375	₹ 3.750	₹ 12.50
4	Construction of Temple	Construction of Temple in village Jethia (1 No.) in 2 <sup>nd</sup> year.	₹ 0.45	-	-	₹ 0.45
<b>PUBLIC HEARING-CSR RELATED &amp; NEED BASED ACTIVITIES</b>						
<i>(Adopting 08 nos. of villages –Khatranga, Chakmakrampur, Jethia, Gopinathpur, Goalara, Kajla, Changual and Radhanagar in nearby project area)</i>						
		Free ambulance service for meeting emergency demand.	₹ 0.300	-	-	₹ 0.300
		Free Health check-up, blood donation camp, eye check-up camp and free cataract operation.	₹ 0.400	₹ 0.400	₹ 0.400	₹ 1.200
5	Provision for health care facility	Financial support to existing health center [Changual BPHC Community Health Center (1 <sup>st</sup> Year & 2 <sup>nd</sup> Year) and Gokulpur Health Center (3 <sup>rd</sup> year)] with specialist doctor, compounder & assistant etc.	₹ 0.400	₹ 0.400	₹ 0.400	₹ 1.200
6	Financial Support to the Local School for better education facility and development of infrastructure (toilets, boundary wall), free bench distribution	1 <sup>st</sup> Year - Gopinathpur Primary School, Jethia SSK School, 2 <sup>nd</sup> Year - Khatranga & Chakmakrampur High School and in 3 <sup>rd</sup> Year - Changual Primary & high school, Financial support of 15 lakhs in each school & 02 nos. toilets construction (01 No. Male & 01 no. female) at each school. (01 no. toilet @ 1.50 Lakhs)	₹ 0.33	₹ 0.33	₹ 0.33	₹ 0.99
7	Adopting 01 no. school for better education facility	Financial support for computer lab & other infrastructure facility in Griffin International school	₹ 0.500	₹ 0.500	₹ 0.300	₹ 1.300
8	Avenue plantation	Avenue plantation & sapling distribution will be done in nearby villages by planting more or less approx. 2,00,000 nos. of trees. (1 <sup>st</sup> Year - Gopinathpur & Jethia, 2 <sup>nd</sup> Year - Khatranga & Chakmakrampur and in 3 <sup>rd</sup> Year-Changual) 40,000 trees in each village 01 no. tree plantation @ 375 rupees	₹ 3.000	₹ 3.000	₹ 1.500	₹ 7.500
9	Installation of	Installation of LED solar Street	₹ 0.75	₹ 0.65	₹ 0.40	₹ 1.80



	Street Lighting (Solar/Led) provision at suitable public places	Lights with pole 180 nos. 1 <sup>st</sup> year - Khatranga (25 nos.), Changual (25 nos.) & Gopinathpur (25 nos.) 2 <sup>nd</sup> year - Jethia (25 nos.), Kajla (20 nos.) & Radhanagar (20 nos.) and in 3 <sup>rd</sup> year - Goalara (20 nos.) & Chakmakrampur (20 nos.) (01 no. LED solar Street Lights with pole @ 1 lac)				
10	Providing Drinking water facility	Bore well/hand pump (80 Nos. in villages- 1 <sup>st</sup> year - Khatranga (10 nos.), Changual (10 nos.) & Gopinathpur (10 nos.) 2 <sup>nd</sup> year - Jethia (10 nos.), Kajla (10 nos.) & Radhanagar (10 nos.) and in 3 <sup>rd</sup> year - Goalara (10 nos.) & Chakmakrampur (10 nos.)	₹ 0.30	₹ 0.30	₹ 0.20	₹ 0.80
11	Providing collection bins/dustbin	40 nos. of collection bins with stand in village 1 <sup>st</sup> year - Khatranga (5 nos.), Changual (5 nos.) & Gopinathpur (5 nos.) 2 <sup>nd</sup> year - Jethia (5 nos.), Kajla (5 nos.) & Radhanagar (5 nos.) and in 3 <sup>rd</sup> year - Goalara (5 nos.) & Chakmakrampur (5 nos.)	₹ 0.038	₹ 0.03	₹ 0.025	₹ 0.100
12	Maintenance of roads in nearby villages	Maintenacne of 2.0 km road. 1 <sup>st</sup> and 2 <sup>nd</sup> year- Goalara to NH-6 underpass (Nawab road - 2.0 km)	₹ 0.300	₹ 0.700	-	₹ 1.00
13	Infrastructure Development	Construction of 04 nos. community hall 1 <sup>st</sup> year - Khatranga 2 <sup>nd</sup> year - Jethia & Changual and in 3 <sup>rd</sup> year - Gopinathpur	₹ 0.400	₹ 0.800	₹ 0.400	₹ 1.600
14	Restoration of pond & development of drainage system	Restoration of ponds & development of drainage system 1st Year - Gopinathpur (02 nos. ponds & 1.5 km drainage system), Goalara (02 nos. pond & 1.0 km drainage system) & Jethia (01 no. pond), 2nd Year - Khatranga (02 nos. pond & 1.0 km drainage system), Kajla (01 no. pond) & Chakmakrampur (03 nos. pond & 1.5 km drainage system), 3rd Year - Changual (3.0 nos. pond & 2.5 km drainage system) & Radhanagar (02 nos. pond & 1.5 km drainage system) 01 no. pond restoration cost @ 2.5 Lakh & Development of drainage system @ 25.0 lakhs per km.	₹ 0.750	₹ 0.775	₹ 1.125	₹ 2.650
15	Awareness Campaign for Single Use Plastic &	Awareness Campaign for Single Use Plastic in Lachmapur Gram Panchayat (1 <sup>st</sup> Year), Chakmakrampur Gram Panchayat	₹ 0.175	₹ 0.175	₹ 0.150	₹ 0.500



	installation of plastic waste shredder machine in community hall	(2 <sup>nd</sup> year) & Changual Gram Panchayat (3rd Year) Installation of plastic waste shredder machine 02 no. in each community hall of corresponding village 1st Year - Khatranga, Chakmakrampur, Jethia, 2nd Year - Gopinathpur, Goalara & Changual 3rd Year - Kajla and Radhanagar Awareness campaign @ 10.0 Lakhs & Shredder machine @ 2.5 Lakhs each.				
16	Utilisation of paddy straw & other biomass for bio pelletization	Collection/ segregation of paddy straw & other crop residue from nearby villages for bio pelletizing & feeding in bio pellet plant of associate company of the Group for utilising biopellet /co-firing in proposed boiler (blending with coal 5-10%) as per MOEFCC guidelines dated 22.10.2022	₹ 2.000	₹ 2.000	₹ 2.000	₹ 6.000
17	Funding to IIT Kharagpur for supporting their CSR initiative programmes	Funding to IIT Kharagpur for supporting their CSR initiative programmes such as environmental, sustainability, agriculture research & rural development programme etc.	₹ 0.200	₹ 0.200	₹ 0.100	₹ 0.500
<b>TOTAL</b>			<b>₹ 16.29</b>	<b>₹ 16.15</b>	<b>₹ 12.56</b>	<b>₹ 45.00</b>
Note: M/s. Rashmi Green Hydrogen Steel Private Limited is also proposing to adopt 08 nos. of Villages namely Khatranga, Chakmakrampur, Jethia, Gopinathpur, Goyalara, Kajala, Changual & Radhanagar as a part of Social welfare development based on need base assessment carried.						

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