



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

To,

The SENIOR MANAGER  
ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED  
1, GARSTIN PLACE, ROOM NO 3B, KOLKATA, Kolkata, West Bengal-  
700001

**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/IND/285991/2017 dated 30 Jul 2022. The particulars of the environmental clearance granted to the project are as below.

- |  |  |
|--|--|
| 1. EC Identification No.                   | EC22A008WB158432   |
| 2. File No.                                | IA-J-11011/56/2017-IA-II(I)  |
| 3. Project Type                            | Expansion  |
| 4. Category                                | A  |
| 5. Project/Activity including Schedule No. | 3(a) Metallurgical industries (ferrous & non ferrous)  |
| 6. Name of Project                         | Expansion of Integrated Steel Plant (1.0 To 2.0 Million TPA Finished Steel) with 385 MW Captive Power Plant. |
| 7. Name of Company/Organization            | ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED  |
| 8. Location of Project                     | West Bengal  |
| 9. TOR Date                                | 09 Aug 2017  |

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

Date: 11/10/2022

(e-signed)  
Dr. R. B. Lal  
Scientist E  
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. J-11011/56/2017-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: 11<sup>th</sup> October, 2022**

To,

**M/s Orissa Metallurgical Industry Pvt. Ltd.**  
Garstin Place, Room No 3b, Kolkata,  
West Bengal-700001  
Email: [orissametallurgicalpvtltd@gmail.com](mailto:orissametallurgicalpvtltd@gmail.com)

**Project: Expansion of Integrated Steel Plant (1.0 Million TPA To 2.0 Million TPA Finished Steel) With 385 MW Captive Power Plant by M/s Orissa Metallurgical Industry Pvt. Ltd., located at Mouza – Amba, Mathurakismat, Ghoshalchak, Radhanagar, Serampurgia, Mollarchak, Katapole, Tarabamni And Dhularchak, Village – Gokulpur, P.O – Shyamraipur, P.S – Kharagpur (L) Dist. Paschim Medinipur, West Bengal– Grant of Environmental Clearance.**

Sir,

This refers to your proposal no. **IA/WB/IND/285991/2017 dated 30.07.2022** received through PARIVESH Portal for grant of **Environmental Clearance (EC)** for the project mentioned above. Further, the Project Proponent has uploaded the information, vide their letter dated 01.09.2022.

2. As per the provisions of the Environment Impact Assessment (EIA) Notification, 2006, the above-mentioned project/activity is covered under category 'A' of item **'1(d) Captive Power Plant, '2(a) Coal Washery, '3(a) Metallurgical industries (Ferrous & Non-ferrous) and '4(b) Coke Oven Plant** under of the schedule of the EIA Notification, 2006 and appraised at Central Level.

3. The above-mentioned proposal has been considered in **11<sup>th</sup> meeting of Expert Appraisal Committee (Industry-1 Sector) held on 16<sup>th</sup> August , 2022**. 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
a.	Terms of Reference for undertaking EIA study	23.11.2021
b.	Period of baseline data collection	01.12.2020 to 28.02.2021
c.	Date of Public Consultation	07.04.2022
d.	Action plan to address the PH issues	An amount of Rs. 5.00 Crores have been earmarked to address the issues raised during public hearing. Detail of activities proposed attached as <b>Annexure 1</b> .
e.	Location of the project	Mouza – Amba, Mathurakismat, Ghoshalchak, Radhanagar,

✓

S. No.	Particulars	Details																																			
		Serampurgia, Mollarchak, Katapole, Tarabamni And Dhularchak, Village – Gokulpur, P.O – Shyamraipur, P.S – Kharagpur (L) Dist. Paschim Medinipur, West Bengal																																			
f.	Latitude and Longitude of the project site	<table border="1"> <thead> <tr> <th>Point</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>22°22'01.75"</td> <td>87°17'20.33"</td> </tr> <tr> <td>B</td> <td>22°22'04.24"</td> <td>87°16'45.27"</td> </tr> <tr> <td>C</td> <td>22°22'16.30"</td> <td>87°16'37.71"</td> </tr> <tr> <td>D</td> <td>22°22'16.49"</td> <td>87°16'10.44"</td> </tr> <tr> <td>E</td> <td>22°22'35.15"</td> <td>87°16'22.77"</td> </tr> <tr> <td>F</td> <td>22°22'45.71"</td> <td>87°16'32.14"</td> </tr> <tr> <td>G</td> <td>22°22'51.09"</td> <td>87°16'42.87"</td> </tr> <tr> <td>H</td> <td>22°22'31.27"</td> <td>87°16'48.61"</td> </tr> <tr> <td>I</td> <td>22°22'30.98"</td> <td>87°17'15.99"</td> </tr> <tr> <td>J</td> <td>22°22'17.28"</td> <td>87°17'20.32"</td> </tr> </tbody> </table>	Point	Latitude	Longitude	A	22°22'01.75"	87°17'20.33"	B	22°22'04.24"	87°16'45.27"	C	22°22'16.30"	87°16'37.71"	D	22°22'16.49"	87°16'10.44"	E	22°22'35.15"	87°16'22.77"	F	22°22'45.71"	87°16'32.14"	G	22°22'51.09"	87°16'42.87"	H	22°22'31.27"	87°16'48.61"	I	22°22'30.98"	87°17'15.99"	J	22°22'17.28"	87°17'20.32"		
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g.	Total land	147.71 ha [Private: 105.83 ha; Govt.: 41.88 ha; Agriculture: NIL ha; Grazing Land: NIL ha; Other Land: NIL ha]																																			
h.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	Out of the 147.71 hectare of land, 130.31 hectare of land is already in possession of M/s Orissa Metallurgical Industry Private Limited & for rest of land (17.40 hectare) consent from private rayat obtained.																																			
i.	Existence of habitation & involvement of R&R, if any	<p>There is no involvement of R&amp;R.</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>Gokulpur</td> <td>1.0 Km</td> <td>NE</td> </tr> <tr> <td>Shyamraipur</td> <td>1.2 Km</td> <td>E</td> </tr> <tr> <td>Bargai</td> <td>2.1 Km</td> <td>ES</td> </tr> <tr> <td>Kharagpur</td> <td>4.5 km</td> <td>SE</td> </tr> </tbody> </table>			Habitation	Distance	Direction	Gokulpur	1.0 Km	NE	Shyamraipur	1.2 Km	E	Bargai	2.1 Km	ES	Kharagpur	4.5 km	SE																		
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j.	Elevation of the project site	Elevation of the project site varies from 32 m to 35 m AMSL.																																			
k.	Involvement of Forest land if any.	No involvement of Forest Land.																																			
l.	Water body exists within the project site as well as study area	<p><b>Project Site:</b> 02 Nos. rain water harvesting pond.</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>01 Nos. R.W.H Structure of OMPL-I</td> <td>0.5 km</td> <td>NE</td> </tr> <tr> <td>02 Nos. R.W.H Structure of Ramswarup Udyog Ltd.</td> <td>0.5 km</td> <td>S</td> </tr> <tr> <td>01 Nos. R.W.H Structure of OMPL.</td> <td>0.6 km</td> <td>NE</td> </tr> <tr> <td>01 Nos. R.W.H Structure of BCPL.</td> <td>1.0 km</td> <td>NNW</td> </tr> <tr> <td>Tata Metaliks Ltd.</td> <td>1.5 Km</td> <td>NE</td> </tr> <tr> <td>Shyamraipur Village Pond</td> <td>0.6 Km</td> <td>ES</td> </tr> </tbody> </table>			Water body	Distance	Direction	01 Nos. R.W.H Structure of OMPL-I	0.5 km	NE	02 Nos. R.W.H Structure of Ramswarup Udyog Ltd.	0.5 km	S	01 Nos. R.W.H Structure of OMPL.	0.6 km	NE	01 Nos. R.W.H Structure of BCPL.	1.0 km	NNW	Tata Metaliks Ltd.	1.5 Km	NE	Shyamraipur Village Pond	0.6 Km	ES												
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S. No.	Particulars	Details								
		Najirchalk Village Pond	0.6 Km	WS						
		Dhekia Village Pond	1.9 Km	SE						
		Saha Chowk Pond	1.9 Km	SSW						
		01 Nos. R.W.H Structure of OMPL-II	2.0 km	S						
		01 Nos. R.W.H Structure of RML	2.0 km	SE						
		02 Nos. R.W.H Structure of OASPL	2.5 Km	ESE						
		Kangsabati River	4.5 Km	N						
m.	Existence of ESZ / ESA / national park / wildlife Sanctuary / biosphere Reserve / tiger reserve / elephant reserve etc. if any within the study area	Study area No National Parks, Wildlife Sanctuaries, Biosphere Reserves, Reserve Forest lies within 10 km radius.  Three protected forest is present in the 10 km area of project site.								
n.	Project cost	The existing capital cost of project was Rs 1,500 Crores. The capital cost of the proposed project is Rs. 1,000 Crores								
o.	EMP cost	<table border="1"> <thead> <tr> <th>Type</th> <th>Capital (Rs. in Crores)</th> <th>Recurring (Rs. in Crores)</th> </tr> </thead> <tbody> <tr> <td>Proposed</td> <td>285.47</td> <td>23.5</td> </tr> </tbody> </table>			Type	Capital (Rs. in Crores)	Recurring (Rs. in Crores)	Proposed	285.47	23.5
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Proposed	285.47	23.5								
p.	Employment opportunity	The total employment generation from the complete project is 5,000 (Direct - Regular & Contractual).								
q.	Water and Power requirement	Water –550 m <sup>3</sup> /hr, Power –473.0MW								

### Unit configuration and capacity:

Sl. No.	Plant Equipment / Facility	Existing facilities as per EC dated 18.05.2021 & 03.08.2021								Expansion Proposal considering 330 annual working days		Final (Existing + Proposed)		Remarks
		Total (A+B)		Implemented (A)		Unimplemented (B)		As per last CTO		Config.	Capacity	Configuration	Capacity	
		Config.	Capacity	Config.	Capacity	Config.	Capacity	Config.	Capacity					
1.	Mini Blast Furnace with PCM	2 x 450 m <sup>3</sup>	0.7 Million TPA	**	**	2 x 450 m <sup>3</sup>	0.7 Million TPA	**	**	Change In Module to 1 x 686 m <sup>3</sup>	(+) 0.05 Million TPA	1 x 686 m <sup>3</sup>	0.75 Million TPA	Hot Liquid Metal / Pig Iron/ High Quality Billet & steel product
	Matching New LD, CCM & Rolling Mill	**	**	**	**	**	**	**	**	1 x 50 T	50 TPH	1 x 50 T		
2.	Sinter Plant	1 x 105 m <sup>2</sup>	0.6 Million TPA	**	**	1 x 105 m <sup>2</sup>	0.6 Million TPA	**	**	Change In Module to 1 x 130	(+) 0.69 Million TPA	1 x 130 m <sup>2</sup>	1.29 Million TPA	Sinter



Sl. No.	Plant Equipment / Facility	Existing facilities as per EC dated 18.05.2021 & 03.08.2021								Expansion Proposal considering 330 annual working days		Final (Existing + Proposed)		Remarks
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		Config.	Capacity	Config.	Capacity	Config.	Capacity	Config.	Capacity					
										m <sup>2</sup>				
3.	DRI plant	2 x 300 TPD + 2 x 500 TPD	0.5 Million TPA	**	**	2 x 300 TPD + 2 x 500 TPD	0.5 Million TPA	**	**	Addition of 10 x 700 TPD	(+). 2.4 Million TPA	2 x 500 TPD + 2 x 350 TPD + 10 x 700 TPD	2.90 Million TPA	Sponge Iron
	Matching Coal Dryer (Stand by)	**	**	**	**	**	**	**	**					
4.	Steel Melting Shop with matching LRF/AOD, CCM and oxygen optimized furnace	10 x 20 T I.F. + 2 x 20 T EAF	0.8 Million TPA	**	**	10 x 20 T I.F. + 2 x 20 T EAF	0.8 Million TPA	**	**	Addition & change in technology (10 x 25 T I.F. + 10 x 30 T I.F.)	(+) 1.36 Million TPA	10 x 25 T I.F. + 10 x 20 T I.F. + 10 x 30 T I.F.	2.16 Million TPA	Billets & Slab
5.	SMS Slag Crusher	6 x 20 TPH	120 TPH	**	**	6 x 20 TPH	120 TPH	**	**	Change In Module to 3 x 40 TPH	No Change	3 x 40 TPH	120 TPH	Metal Recovery
6.	Ferro Alloy Plant	10 x 9 MVA	0.12 Million TPA	**	**	10 x 9 MVA	0.12 Million TPA	**	**	No change in configuration		10 x 9 MVA	0.18 Million TPA	Ferro Alloys (FeMn, FeSi, SiMn & FeCr)
7.	Jigging Plant	4 x 20 TPD	80 TPD	**	**	4 x 20 TPD	80 TPD	**	**	No change		4 x 20 TPD	80 TPD	Metal Recovery
8.	Chrome Briquette plant	1 x 40 TPH	40 TPH	**	**	1 x 40 TPH	40 TPH	**	**	No change		1 x 40 TPH	40 TPH	Briquette
9.	Non-recovery type Coke Oven Plant (modified wet quenching type)	2 x 0.25 MTPA	0.5 Million TPA	**	**	2 x 0.25 MTPA	0.5 Million TPA	**	**	Capacity enhancement by increasing the no. of working days	(+) 0.05 Million TPA	2 x 0.275 MTPA	0.55 Million TPA	Metallurgical Coke
10.	Lime Dolomite Plant	1 x 200 TPD	200 TPD	**	**	1 x 200 TPD	200 TPD	**	**	Change in configura	300 TPD	1 x 300 TPD	300 TPD	Calcined Lime & Dolomite



Sl. No.	Plant Equipment / Facility	Existing facilities as per EC dated 18.05.2021 & 03.08.2021								Expansion Proposal considering 330 annual working days		Final (Existing + Proposed)		Remarks
		Total (A+B)		Implemented (A)		Unimplemented (B)		As per last CTO		Config.	Capacity	Configuration	Capacity	
		Config.	Capacity	Config.	Capacity	Config.	Capacity	Config.	Capacity					
										tion to 1 x 300 TPD				
11	Oxygen Plant	1 x 200 TPD	200 TPD	**	**	1 x 200 TPD	200 TPD	**	**	<b>Addition 1 x 200 TPD</b>	200 TPD	2 x 200 TPD	400 TPD	Oxygen
12	Coal Washery	**	**	**	**	**	**	**	**	<b>New</b>	2 x 500 TPH	2 x 500 TPH	2.1 Million TPA	Washed Coal
13	Hot Rolling Mill with CRM Annealing, Pickling & Galvanizing / Galvalume, CCL Line	**	0.35 Million TPA	**	**	**	0.35 Million TPA	**	**	<b>Expansion</b>	(+) 0.85 Million TPA	**	1.2 Million TPA	HR Product (Flat, Coil); Seamless Pipes Galvanized/ Galvalume / Colour Coated Product
14	Bar/Wire Drawing Mill	**	0.35 Million TPA	**	**	**	0.35 Million TPA	**	**	<b>Expansion</b>	(+) 0.45 Million TPA	**	0.8 Million TPA	TMT Bar, Wire & Wire Rod
15	Ductile Iron Plant	**	0.30 Million TPA	**	**	**	0.30 Million TPA	**	**	<b>Dropping</b>	<b>SURRENDERING THE UNIT</b>			
16	Pellet plant	4 x 0.9 Million TPA	3.60 Million TPA	**	**	4 x 0.9 Million TPA	3.60 Million TPA	**	**	<b>Dropping</b>	<b>SURRENDERING THE UNIT</b>			
17	I/O Beneficiation	2 x 1.8 Million TPA	3.60 Million TPA	**	**	2 x 1.8 Million TPA	3.60 Million TPA	**	**	<b>Dropping</b>	<b>SURRENDERING THE UNIT</b>			
18	Producer Gas Plant	20 x 7,500 Nm <sup>3</sup> /hr	1,50,000 Nm <sup>3</sup> /hr	**	**	20 x 7,500 Nm <sup>3</sup> /hr	1,50,000 Nm <sup>3</sup> /hr	**	**	<b>Surrendering 15 x 7,500 Nm<sup>3</sup>/hr</b>	(-) 1,12,500 Nm <sup>3</sup> /hr	5 x 7,500 Nm <sup>3</sup> /hr	37,500 Nm <sup>3</sup> /hr	Producer Gas





Sl. No.	Plant Equipment / Facility	Existing facilities as per EC dated 18.05.2021 & 03.08.2021								Expansion Proposal considering 330 annual working days		Final (Existing + Proposed)		Remarks
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19	Captive Power Plant	WHRB Based 90 MW (56 MW from DRI Plant) + 34 MW from Coke Oven Plant + TRT BF)	225 MW	**	**	WHRB Based 90 MW (56 MW from DRI Plant) + 34 MW from Coke Oven Plant + TRT BF)	225 MW	**	**	Expansion of WHRB Based CPP	(+) 150 MW from WHRB DRI Plant + (+) 7 MW from Coke Oven Plant + 3 MW TRT BF	250 MW WHRB Based (206 MW from DRI Plant) + 41 MW from Coke Oven Plant + 3 MW from B.F. - TRT	385 MW	Power
		CFBC - 135 MW (Coal & Doloc har Mix based) 3 x 45 MW]				CFBC - 135 MW (Coal & Doloc har Mix based) 3 x 45 MW]					+ 3 MW TRT BF	135 MW CFBC (Coal & Doloc har Mix based) 3 x 45 MW		
20	Railway Siding	01 No.	01 No.	**	**	01 No.	01 No.	**	**	**	**	01 No.	Material Handling	

5. The EAC, in its meeting held during 16<sup>th</sup> August, 2022, inter-alia, deliberated and noted the following:

- i. The instant proposal is for expansion of Integrated Steel Plant (1.0 Million TPA to 2.0 Million TPA Finished Steel) With 385 MW 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. The total project area is 147.71 out of which 130.31 hectare of land is already in possession of M/s Orissa Metallurgical Industry Private Limited & for rest of land (17.40 hectare) consent from private rayat obtained.
- vi. Existing green belt as per EC condition to be developed on 40.1 ha (33%) @ 2500 nos. trees per hectare (around 1, 00,250 nos.) in 03 years span of time. An area of around 17.88 ha @ 2500 trees per hectare with total sapling of 44,700 nos. has already been covered under greenbelt. Proposed additional greenbelt will be developed in 9.0 ha which is about 6.1 % of the total project area. Thus total of 49.10 ha area (33.24 % of total project area) will be developed as greenbelt. Total no. of 122,750 saplings (Existing as per EC -1, 00,250 + New-22,500) will be planted and nurtured in 49.10 hectares in first two year.
- vii. After expansion, the total water requirement of 13,200 KLD will be obtained from Kansabati River & rain water harvesting structure.
- viii. 02 Nos. rain water harvesting pond exist within project site. Also, Kansabati River, other rainwater harvesting structures and ponds exists within the study area of 10 km from the project site. The water bodies shall not be disturbed.
- ix. The Committee has also found that the baseline data and incremental GLC due to the proposed project within NAAQ standards.
- x. The Committee deliberated on the action plan and budget allocation for green belt development and noted that as committed by the PP that the green belt development shall be completed within a year.
- xi. The committee deliberated details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found them to be satisfactory.
- xii. The Committee also deliberated on the public hearing issues along with action plan submitted by the proponent to address the issues raised during the public hearing and found it satisfactory.
- xiii. The Committee deliberated upon the certified compliance report of IRO and found it satisfactory.
- xiv. The EAC also deliberated on the written submissions submitted by the proponent and found it satisfactory.
- xv. 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.
- xvi. 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 11<sup>th</sup> meeting of **Expert Appraisal Committee (Industry-1 Sector) held on 16<sup>th</sup> August, 2022**, based on information & clarifications provided by the project proponent and after detailed deliberations **recommended** the proposal for grant of Environment Clearance subject to stipulation of specific and general conditions as detailed in the point below.

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 Orissa Metallurgical Industry Pvt. Ltd** under the provisions of EIA Notification, 2006 subject to the following specific conditions and general conditions:

**A. Specific Condition:**

- i. The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- ii. 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.
- iii. Rejects from coal washery shall only be used either in the captive power plant (or) in the Thermal Power Plants meeting emission standards.
- iv. 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.
- v. Sinter Plant shall be equipped with Sinter cooler waste recovery system and suitable technology for control of dioxins and furans emissions from the plant.
- vi. Tar shall be recovered from producer gas and shall be sold to registered processors and Phenolic water from PGP shall be treated for phenol, tar and cyanide.
- vii. Coke oven plant shall be equipped with modified wet quenching system.
- viii. 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.
- ix. Basic Oxygen Furnace (BOF) gas shall be cleaned dry.
- x. EAF shall be closed type and fourth hole extraction system shall be included for fume control from these furnaces.
- xi. 85-90 % of billets shall be rolled directly in hot stage. RHF shall operate using only Light Diesel Oil or Mixed BF/CO gas/Producer gas.



- xii. Cold Rolling Mill (CRM), color coating and galvanizing plants shall have CETP to treat and recycle the treated water from CRM complex. Sludge generated at CRM ETP shall be sent to TSDF. Acid recovery plant shall be provided in CRM.
- xiii. Dust emission from Steel Plant stacks shall be up to 30 mg/Nm<sup>3</sup>.
- xiv. Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Regional Office of the MoEF&CC.
- xv. Recuperator shall be installed to recover heat from BF stove waste gas and used for stove gas reheating reducing requirement of fuel gas.
- xvi. The company shall also undertake rain water harvesting measures as per the plan submitted and reduce water dependence from the outside source.
- xvii. 85% of raw materials and finished goods shall be transported by dedicated railway siding facility. In the event of delay in establishment of dedicated railway line, PP shall use another railway siding facility of Rashmi Group.
- xviii. The total water requirement of 13,200 KLD will be obtained from Kansabati River & rain water harvesting structure. No ground water abstraction is permitted.
- xix. 02 Nos. rain water harvesting pond exist is within project site. Also, Kansabati River, other rainwater harvesting structures and ponds exists within the study area of 10 km from the project site. The water bodies shall not be disturbed. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.
- xx. Air cooled condensers shall be used in the Power plant. 100% consumption of Dolo char in CFBC based boiler.
- xxi. Ultralow NOx burner with three stage combustion, flue gas recirculation and auto combustion control system shall be used.
- xxii. Energy efficient drives, VFD for auxiliary motors, slip power recovery for motors above 1000 KW shall be provided.
- xxiii. Ventilation system for odour control in bitumen coating area shall be included.
- xxiv. A proper action plan must be implemented to dispose of the electronic waste generated in the industry.
- xxv. Three tier Green Belt shall be developed in a time frame of one year with native species all along the periphery of the project site of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.
- xxvi. Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.
- xxvii. The coal dust to be measured at coal handling areas, ball mills, furnace charging areas through personal and area monitoring and to be compared and it should be within 2 mg/m<sup>3</sup>, respirable dust fraction containing less than 5% quartz as per Indian Factories Act, 1948.
- xxviii. The proposed project shall be designed as "Zero Liquid Discharge" Plant. There shall be no discharge of effluent from the plant. Domestic waste water will be treated in STP and treated water shall be re-used for greenbelt development and plantation and dust suppression.
- xxix. All internal road and connecting road from project site to main highway shall be developed and maintained with suitable Million Axle Standard (MSA) as per the traffic load due to existing



and proposed project. All plant roads shall be paved and industrial vacuum cleaners shall be used to clean the roads regularly.

- xxx. All stockyards shall be having impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains to trap the run off material.
- xxxi. The project proponent shall undertake village adoption and develop a robust action plan to develop the villages in model villages.
- 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.
- 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 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.
- xxxiv. There are two nos. of Ponds in the vicinity of the Project, so the PP shall ensure that the quality and pond profiles are not disturbed and shall implement a Pond conservation plan.
- xxxv. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere. The PP to this affect shall implement a time line action Plan.
- xxxvi. 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 06 Nos. Continuous Ambient Air Quality Station (CAAQS) for monitoring AAQ parameters with respect to standards prescribed in Environment



(Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.

- 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 O<sub>2</sub> 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); G.S.R 414 (E) dated 30<sup>th</sup> May 2008 (Sponge Iron) as amended from time to time; 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. An attrition grinding unit to improve the bulk density of BF granulated slag from 1.0 to 1.5 Kg/l shall be installed to use slag as river sand in construction industry.
- ii. Carbon recovery plant to recover the elemental carbon present in GCP slurries for use in Sinter plant shall be installed.
- iii. Used refractories shall be recycled as far as possible.
- iv. 100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.
- v. Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil. Oil collection trays shall be provided under coils on saddles in cold rolled coil storage area.
- vi. Kitchen waste shall be composted or converted to biogas for further use.

#### **VII. Green Belt**

- i. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.
- ii. Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames.





## **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. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.
- 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 report 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. 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.
  - x. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
  - 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.



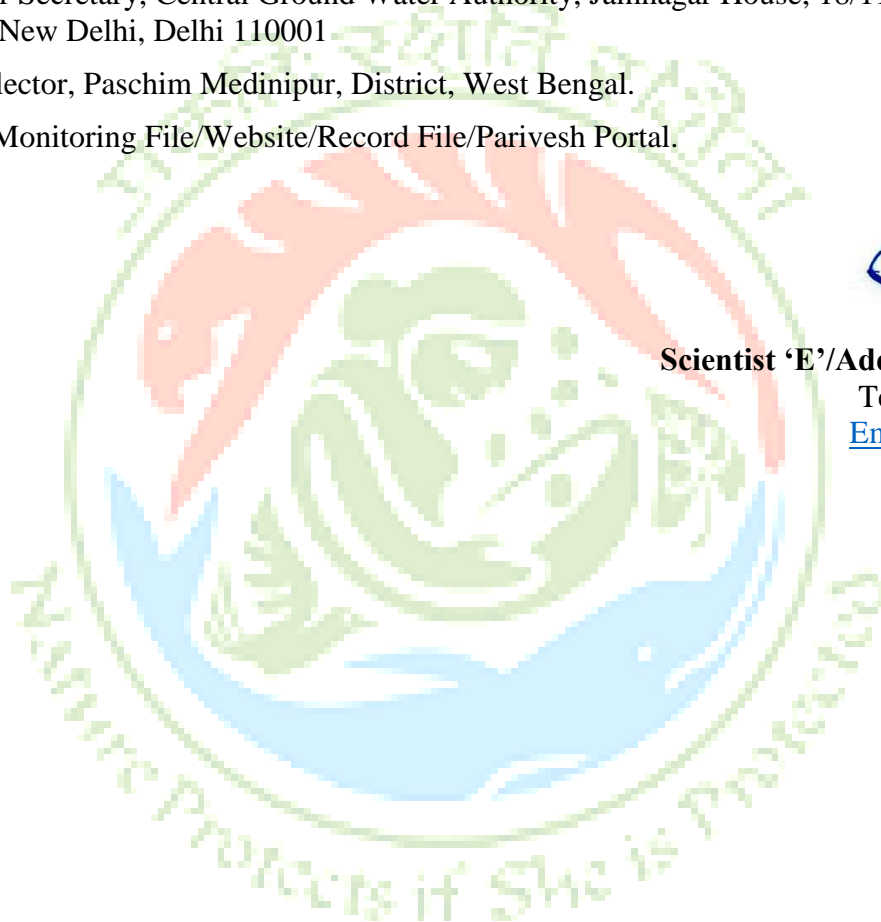
(Dr. R. B. Lal)  
Scientist 'E'/Additional Director  
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**Encl. as above at Annexure –I**



**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 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
5. The Chairman, Central Pollution Control Board, CBD-Cum-Office Complex, East Arjun Nagar, New Delhi-110 032.
6. The Chairman, West Bengal State Pollution Control Board, Paribesh Bhawan, 10A- Block LA, Sector –III, Salt Lake City, Kolkata – 700 098.
7. The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi, Delhi 110001
8. District Collector, Paschim Medinipur, District, West Bengal.
9. Guard File/Monitoring File/Website/Record File/Parivesh Portal.



**(Dr. R. B. Lal)**  
**Scientist 'E'/Additional Director**  
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Table: Action plan as per MoEF&amp;CC O.M. dated 30/09/2020

S. No.	Physical activity and action plan		Year of implementation (Budget in ₹)			Total Expenditure (₹ in Crores)
	Name of the activity	Physical Targets	1 <sup>st</sup> (2022-23)	2 <sup>nd</sup> (2023-24)	3 <sup>rd</sup> (2024-25)	
<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 160 persons will receive stipend of Rs. 12,500 per month for three months training.	₹ 0.20 Crores	₹ 0.20 Crores	₹ 0.20 Crores	0.60
2.	Provision for health care facility	Free ambulance service for meeting emergency demand.	₹ 0.12 Crores	-	-	0.12
		Financial support to existing health center [(Kalaikunda Primary Health Center (1 <sup>st</sup> year), Matkatdpur (2 <sup>nd</sup> year) and Mahespur (3 <sup>rd</sup> year)] with specialist doctor, compounder & assistant etc.	₹ 0.12 Crores	₹ 0.12 Crores	₹ 0.12 Crores	0.36
3.	Construction/ Development of Technical Schools	Financial Support to the 02 nos. technical schools Private I.T.I & Midnapore I.T.I- ₹ 5 Lakhs each in 1 <sup>st</sup> year, 2 <sup>nd</sup> Year & in 3 <sup>rd</sup> Year will be provided for development of lab & infrastructure. Free lectures /classes at least 144 classes annually from experienced industrial experts in consultation with school administration will be provided at the cost of ₹ 2 Lakhs annually.  Industrial/ Vocational training will be provided to 100 local youths per year based on their academic qualification for better education and practical experiences and also eligible candidates will be engage by the unit in near future.	₹ 0.07 Crores	₹ 0.07 Crores	₹ 0.07 Crores	0.21
4.	Financial Support to the Local School for	Barkola Primary School in 1 <sup>st</sup> year, Bargai Primary School, in 2 <sup>nd</sup> year and Walipur High School in 3 <sup>rd</sup> year with 02 nos. toilets at	₹ 0.06 Crores	₹ 0.06 Crores	₹ 0.06 Crores	0.18



	better education facility and development of infrastructure (toilets) & library facilities	each school.  (01 no. toilets @ 1.0 lac)																																		
5.	Proper action to control pollution and construction of plant effluent discharge drainage system.	<p>Most effective and advanced stage technology having techno-economic viability for air pollution control devices of adequate capacity have been installed for existing operational units and will be installed in parallel with implementation of the proposed plant and it will be regularly monitored by dedicated team. Also third party audit / monitoring will be conducted by approved lab / agency on quarterly basis.</p> <p>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.</p> <p>Boundary of the plant will be increased from 6 foot to 8 to 10 foot with barbed wire.</p> <p>Plant is being design as Zero Liquid Discharge plant and entire waste water after treatment used in plant. For the existing EC accorded and expansion project 02 x 140 KLD STP and 1 x 1300 KLD + 1 x 600 KLD ETP will be installed.</p> <p>A network of drainage system having size 0.5 m Depth × 0.5 m width will be provided along the internal roads to collect storm water and will be interlinked with higher size drain 1 m wide &amp; 1 m depth that will be connected to surface 03 Nos. Guard Pond of Dimension 200 m x 150 m x 7 m ;</p>	<table border="1"> <thead> <tr> <th>Description</th> <th>Capital cost, Rs. in crores</th> <th>Recurring cost Rs. in crores</th> </tr> </thead> <tbody> <tr> <td>Air pollution control</td> <td>195.00</td> <td>16.00</td> </tr> <tr> <td>Water pollution control</td> <td>11.00</td> <td>0.95</td> </tr> <tr> <td>Solid Waste Management System</td> <td>13.50</td> <td>0.65</td> </tr> <tr> <td>Green belt Development</td> <td>20.00</td> <td>0.70</td> </tr> <tr> <td>Noise pollution control</td> <td>4.50</td> <td>0.80</td> </tr> <tr> <td>Env. Monitoring and management</td> <td>4.79</td> <td>1.80</td> </tr> <tr> <td>Implementation of Controlling measures to minimize impacts due to transportation and traffic</td> <td>4.50</td> <td>0.80</td> </tr> <tr> <td>Setting Environmental Laboratory</td> <td>1.74</td> <td>0.35</td> </tr> <tr> <td><b>Total</b></td> <td><b>255.03</b></td> <td><b>22.05</b></td> </tr> </tbody> </table>				Description	Capital cost, Rs. in crores	Recurring cost Rs. in crores	Air pollution control	195.00	16.00	Water pollution control	11.00	0.95	Solid Waste Management System	13.50	0.65	Green belt Development	20.00	0.70	Noise pollution control	4.50	0.80	Env. Monitoring and management	4.79	1.80	Implementation of Controlling measures to minimize impacts due to transportation and traffic	4.50	0.80	Setting Environmental Laboratory	1.74	0.35	<b>Total</b>	<b>255.03</b>	<b>22.05</b>
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		180 m x 60 m x 7 m & 150 m x 120 m x 7 m.				
6.	To do more plantation	Green belt is being developed inside & outside the plant boundary CPCB guideline. With the expansion proposal the green belt will be increased from 40.01 hectare to 49.10 hectare. Greenbelt @ 2500 trees per hectare will be developed. Total 1,22,750 nos. of trees will be planted all along the plant boundary.  Additional avenue plantation will be done in nearby villages by planting more or less approx. 1,50,000 nos. of trees. (Nimpura area-1 <sup>st</sup> year, along the NH-49-2 <sup>nd</sup> year and Kalyanpur village -3 <sup>rd</sup> year)	₹ 0.08 Crores	₹ 0.08 Crores	₹ 0.08 Crores	0.24
7.	Installation of street lights	Installation of LED solar Street Lights with pole 30 nos. at a gap of 50 meter apart on road measuring 1.5 km from Charchak to Gokulpur.	₹ 0.15 Crores	-	-	0.15
8.	Development of village cannel	Development of 'Mara Kasai canal in Gokulpur village approximately 3.0 Km -2 <sup>nd</sup> (1.5 km) & 3 <sup>rd</sup> Year (1.5 km)- (1 Km.@ ₹ 16.0 lacs)	-	₹ 0.24 Crores	₹ 0.24 Crores	0.48
9.	Maintenance, Development & Construction of road in nearby villages	Maintenance & development of 3.0 km road. (From Saha Chowk Dhekia Village to Latibpur village) in 1 <sup>st</sup> , 2 <sup>nd</sup> year and & development of road to the burial sites in Amba Village in 3 <sup>rd</sup> year respectively.	₹ 0.27 Crores	₹ 0.27 Crores	₹ 0.27 Crores	0.81
10	Construction of Temple	Construction of Temple 'Sitala Temple' in Amba village. (1 No.) in 2 <sup>nd</sup> year.	₹ 0.05	-	-	0.05
<b>NEED BASED ACTIVITIES</b>						
<i>(Adopting 07 nos. of villages –Shyamraipur, Dhekia, Latibpur, Risha, Tentulia, Gokulpur and Amdai in nearby project area)</i>						
11.	Drinking water facility	Bore well (60 Nos. @ 1.5 lacs per bore well) in villages Latibpur (Village-10 Nos.), Risha (10 Nos.) & Tentulia (10 Nos.) – 1 <sup>st</sup> Year (Latibpur); 2 <sup>nd</sup> year two villages (Risha) & 3 <sup>rd</sup> year (Tentulia).	₹ 0.30 Crores	₹ 0.30 Crores	₹ 0.30 Crores	0.90



12.	Providing collection bins/ dustbin	60 nos. of collection bins with stand each in Gokulpur (1 <sup>st</sup> year), Dhekia (2 <sup>nd</sup> year) and Latibpur (3 <sup>rd</sup> year) villages.	₹ 0.10 Crores	₹ 0.10 Crores	₹ 0.10 Crores	0.30
13.	Infrastructure Development	Construction of 02 nos. community hall- Risha (01 No.)- 1 <sup>st</sup> Year; & Tentulia (01 no)-3 <sup>rd</sup> year	₹ 0.10 Crores	-	₹ 0.10 Crores	0.20
14.	Construction/ Development of Sewage pipeline	Construction & development of 0.5 km sewage pipeline for discharge of sewage in Gokulpur Village in 2 <sup>nd</sup> year.	-	₹ 0.20 Crores	-	0.20
15.	Street Lighting (Solar/Led) provision at suitable public places	Shyamraipur - 10 Nos. in 1 <sup>st</sup> year, Dhekia- 10 Nos. in 2 <sup>nd</sup> year and Amdai - 10 Nos. & Risha -10 nos. in 3 <sup>rd</sup> year.  (01 no. solar LED light with battery & stand @ Rs. 0.50 Lakhs)	₹ 0.05 Crores	₹ 0.05 Crores	₹ 0.10 Crores	0.20
<b>TOTAL</b>			<b>1.67 Crores</b>	<b>1.69 Crores</b>	<b>1.64 Crores</b>	<b>5.00 Crores</b>

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