



सत्यमेव जयते

File No: IA-J-11011/59/2021-IA-II(IND-I)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division



Date 13/05/2024



To,

M/s KAI INTERNATIONAL PRIVATE LIMITED
CCC-23,CIVIL TOWNSHIP,ROURKELA SUNDARGARH ODISHA, Kapanda, SUNDARGARH,
ODISHA, , 769004
Email: info@groupkalinga.com

Subject: Greenfield Project For Installation Of Iron Ore Beneficiation Plant- 1.5 MTPA Throughput (1.16 MTPA High Grade Ore), Iron Ore Pelletization Plant – 1.2 MTPA And Producer Gas Plant – 27,000 Nm³/hr by M/s KAI International Private Limited, located at Village - Kapanda, Tehsil – Lahunipara, District - Sundergarh, Odisha - Grant of Environmental Clearance under the provisions EIA Notification, 2006 -regarding.

Sir/Madam,

This refers to your proposal no **IA/OR/IND1/452282/2023** dated **14.11.2023** along with copy of EIA report, Forms (Part A, B and C) seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. Further, the PP has uplod the information on Parivesh Poral on 15.01.2024.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC23A1006OR5113146N
(ii) File No.	IA-J-11011/59/2021-IA-II(IND-I)
(iii) Clearance Type	Fresh EC
(iv) Category	A
(v) Project/Activity Included Schedule No.	3(a) Metallurgical Industries (ferrous and non ferrous),2(b) Mineral beneficiation
(vi) Sector	Industrial Projects - 1 Greenfield Project For Installation Of Iron Ore Beneficiation Plant- 1.5 MTPA Throughput (1.16 MTPA High Grade Ore), Iron Ore Pelletization Plant – 1.2 MTPA And Producer Gas Plant – 27,000 Nm ³ /hr Located At Village - Kapanda, Tehsil – Lahunipara, Dist. - Sundergarh, Odisha By M/s KAI International Private Limited
(vii) Name of Project	

(viii) Name of Company/Organization	KAI INTERNATIONAL PRIVATE LIMITED
(ix) Location of Project (District, State)	SUNDARGARH, ODISHA
(x) Issuing Authority	MoEF&CC
(xi) Applicability of General Conditions as per EIA Notification, 2006	No

3. As per the provisions of the Environment Impact Assessment (EIA) Notification, 2006, the above-mentioned project/activity is covered schedule S. No. 3(a) Metallurgical Industries (ferrous & non-ferrous), and 2(b) Mineral Beneficiation under Category "A" of the schedule of the EIA Notification, 2006 and appraised at Central Level.

4. The proposal was initially being considered in 49th meeting of the EAC for Industry-I sector held on 28th – 29th November, 2023. Proposal was deferred for want of additional information. Based on the additional information submitted, the proposal was again considered in the 51st meeting of the EAC for Industry-I sector held during **2nd-4th January, 2024**, 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>. As per the Joint Field verification report and DFO letter dated 12/09/2023 the project land of 47.74 Acre is non-forest land of kismat patit.

5. 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 given at **Annexure 1**, Unit configuration and capacity are given at **Annexure II** and PH action plan given at **Annexure III**.

6. The EAC, in its meeting held during **2nd to 4th January, 2024**, inter-alia, deliberated the following:

(i) The instant proposal is for setting up of a greenfield project for installation of Iron Ore Beneficiation Plant- 1.5 MTPA throughput (1.16 MTPA High Grade Ore), Iron Ore Pelletization Plant – 1.2 MTPA and Producer Gas Plant – 27,000 Nm³/hr.

(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 EAC also took into consideration the drone survey of the project site and kml file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH and made following deliberations accordingly.

(vi) Total land required for project is 19.32 ha. (47.74 Ac) which is a IDCO Land (Industrial land) and is under the possession of the company. Land Agreement made between IDCO & KIPL as per land allotment letter no. IDCO:HO:P&A:LAE:7751/2019 dated 06.08.2021.

(vii) Village Daldali Sai is at a distance of 0.5 km in the SW of the project site along with other sensitive areas such as Samaradari Juniani PF (0.41 Km, E), Kukia R.F (0.12 Km (NW) etc. within the study area of the project site. The EAC is

of the opinion that PP shall prepare and strictly implement the environmental safeguard measures to minimise the impact on the project activities on these sensitive areas.

(viii) Brahmani River is at a distance of 1.6 km in West of the project site along with other water bodies within the study area of the project site. The EAC is of the opinion that the water bodies shall not be disturbed. Mitigation measures w.r.t. safeguarding the water bodies shall be prepared and submitted.

(ix) Water requirement is proposed as 1180 m³/day which is to be sourced from Brahmani River. The EAC deliberated on the water requirement is of the opinion that PP shall obtain necessary permission from the Competent Authority in this regard. No Ground water abstraction is permitted.

(x) The Committee has deliberated on the baseline data and incremental GLC due to the proposed project and is of the opinion that stringent mitigation measures to minimise the pollution shall be strictly implemented.

(xi) There are Schedule-I species like Elephant, Leopard, Sloth bear & Python etc. falling within the study area of the proposed site. Wildlife Conservation Plan has been prepared with a budgetary allocation of Rs. 55.871 Lakhs for 5 years and submitted to PCCF wildlife for approval vide memo no. 7846/ 4F (Misc.), dated 20.09.2022.

(xii) The PP has submitted that there are 3972 nos. of total trees available in the project site. 1500 trees have already been felled after taking permission from Divisional Forest Officer cum Wildlife Warden Rourkela Forest Division, Odisha vide letter number 5838/3F dated 20 Sep. 2021. Remaining trees available in the project site are 2472 nos. Budget earmarked for plantation of trees over an area of 8.78 Ha. are Rs.68.17 Lakhs. Against tree felling of 1500 trees, Compensatory afforestation will be done in the ratio of 1:10 i.e. 15000 number in consultation with the State Forest Department. Budget for Compensatory afforestation is Rs. 52.50 Lakhs. Hence total budget for green belt development will be Rs. 120.67 Lakhs (say 121 Lakhs) The greenbelt and plantation area will be 8.78 ha (21.7 acres) i.e. 45.4% of the total plant area of 19.32 ha. (47.74 acres). The EAC deliberated on the greenbelt layout plan along with action plan and the budget earmarked and is of the opinion that greenbelt shall be completed within a span of one year.

(xiii) The committee deliberated details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found them to be satisfactory.

(xiv) 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.

(xv) The EAC noted that a litigation bearing Original Application No. 94/2021/EZ was filed by applicant (Mr. Chittaranjan Mahanta & Others) at Honourable NGT, Interim Orders were issued by Hon'ble NGT on 08.10.2021 & on 07.02.2023 for stay of EC process. As per orders, a Field Visit was carried by Joint committee comprising of nominee of DG Forest, MoEF&CC (not below the rank of ADG), Integrated Regional Officer of MoEF&CC, Bhubaneshwar, PCCF (HoFF), Odisha, Chief Wildlife Warden, Odisha and the District Magistrate, Sundergarh on 18.03.2023 and 28.04.2023. Pursuance of the Joint committee visit report and submissions, final order was passed by Hon'ble NGT dated 22.08.2023, the above case was disposed with direction to MoEF&CC, to take a decision in the matter of grant of Environmental Clearance to the Project Proponent in accordance with law within a period of three months. In this regard, the EAC deliberated all the issues pertaining to the case and accordingly suggested various mitigation measures in this regard while deliberating the EC proposal.

(xvi) The EAC deliberated on the other ADS reply submitted by the project proponent and found it satisfactory.

(xvii) The EAC was informed about a representation received by the Ministry, raising concerns about the project. The EAC recommended that the issues raised be shared with the project proponent, who provided a detailed pointwise reply on 04.01.2021 through written submission, which was deliberated by the EAC and subsequently found to be satisfactory by the EAC.

(xviii) 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.

(xix) 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.

(xx) The EAC also reviewed the EC conditions (specific and general) pertaining to Industry-I projects and observed that some of the specific conditions stipulated so far in the previously recommended EC projects are common and applicable to most of the projects in general. In view of the same, the General Conditions (in case of EC projects) have been revised through reallocation of these common conditions from specific to General Conditions (in case of EC projects). Accordingly, the instant project is also being stipulated with the modified General conditions.

7. The EAC, in its 51st meeting of Expert Appraisal Committee (Industry-1 Sector) held during **2nd to 4th January, 2024**, based on information & clarifications provided by the project proponent and after detailed deliberations **recommended** the instant proposal for grant of Environment Clearance under the provisions of EIA Notification, 2006 subject to the stipulation of specific conditions and general conditions based on project specific requirements.

8. 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 KAI International Private Limited** under the provisions of EIA Notification, 2006 subject to **specific conditions and general conditions at Annexure IV**.

9. 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.

10. 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.

11. 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.

12. 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.

13. This issues with approval of the competent authority.

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

Copy To

1. The Principal Secretary, Department of Forest and Environment, Government of Odisha, Bhubaneswar, Odisha
2. Director General of Forest, Ministry of Environment, Forest and Climate Change, New Delhi
3. Principal Chief Conservator of Forests & HoFF, Aranya Bhawan, Chandrasekharpur, Bhubaneswar - 751 023, Odisha
4. The Regional Officer, Ministry of Environment, Forest and Climate Change, Integrated Regional Office, A/3, Chandrasekharpur, Bhubaneswar – 751023 Odisha
5. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi – 32
6. The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi, Delhi 110001
7. The Member Secretary, Odisha State Pollution Control Board, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit - VIII, Bhubaneswar -12 Odisha.
8. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi.
9. District Collector, Sundergarh , Odisha.
10. Guard File/Monitoring File/ Parivesh Portal /Record File.

(Dr. R. B. Lal)
Scientist 'F'/ Director

Annexure 1

Additional EC Conditions

1. This EC is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.
2. This 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.

Annexure I

The salient features of the proposal as presented during the meetings of EAC

S. No.	Particulars	Details											
a.	Terms of Reference for undertaking EIA study	29.11.2021											
b.	Period of baseline data collection	October to December 2021											
c.	Date of Public Consultation	24.05.2022											
d.	Action plan to address the PH issues	An amount of Rs. 520 Lakhs has been earmarked for implementation of the commitments made during Public Hearing and need based activities. Detail of activities proposed attached as Annexure III .											
e.	Location of the project	Village - Kapanda, Tehsil – Lahunipara, District - Sundergarh, Odisha											
f.	Latitude and Longitude of the project site	Pillar No.(s)	Latitude	Longitude									
		1	21°53'28.44"N	84°52'15.80"E									
		2	21°53'25.49"N	84°52'16.45"E									
		3	21°53'21.00"N	84°52'17.41"E									
		4	21°53'17.11"N	84°52'22.04"E									
		5	21°53'11.30"N	84°52'29.12"E									
		6	21°53'11.40"N	84°52'35.21"E									
		7	21°53'17.15"N	84°52'35.23"E									
		8	21°53'22.78"N	84°52'35.20"E									
		9	21°53'23.68"N	84°52'30.77"E									
		10	21°53'23.86"N	84°52'26.76"E									
		11	21°53'29.01"N	84°52'26.29"E									
		12	21°53'28.77"N	84°52'20.69"E									
g.	Total land	Total land required for project– 19.32 ha. (47.74 Ac) of IDCO Land.											
h.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	Acquired Land: 19.32 ha. (47.74 Acre) Total Land is under possession of KAI International Pvt. Ltd.											
i.	Existence of habitation & involvement of R&R, if any	<u>Project Site:</u> There is no existence of habitants identified within the Project site. <u>Study Area:</u> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Habitation</th> <th style="text-align: center;">Distance</th> <th style="text-align: center;">Direction</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Daldali Sai</td> <td style="text-align: center;">0.5 Km</td> <td style="text-align: center;">SW</td> </tr> <tr> <td style="text-align: center;">Nuagan</td> <td style="text-align: center;">1.3</td> <td style="text-align: center;">S</td> </tr> </tbody> </table>			Habitation	Distance	Direction	Daldali Sai	0.5 Km	SW	Nuagan	1.3	S
Habitation	Distance	Direction											
Daldali Sai	0.5 Km	SW											
Nuagan	1.3	S											

S. No.	Particulars	Details		
		Kapanda	1.5	SW
		Tikayatpali	2.8	NNE
		Talabahali	2.9	E
j.	Elevation of the project site	193 m to 252m AMSL		
k.	Involvement of Forest land if any.	There is no forest land involved within the plant boundary.		
l.	Water body exists within the project site as well as study area	Study Area: Brahmani River- 1.6 Km (W) Amrurhi Nala- 3.1 Km (NNE) Katangamunda Nala- 3.4 Km (NW) Rukura River- 4.3 Km (S)		
m.	Existence of ESZ / ESA / national park / wildlife Sanctuary / biosphere Reserve / tiger reserve / elephant reserve etc. if any within the study area	No ESZ /ESA /national park/ wildlife sanctuary within 10 km radius. Protected Forest (PF): Samaradari Juniani PF (E)- 0.41 Km Reserve Forest (RF): <ul style="list-style-type: none"> • Kukia R.F*- 0.12 Km (NW) • Dhenkiam R.F- 2.6 Km (W) • Nalghati Rajabasa R.F- 3.3 Km (SW) • Dhenkiam Block R.F- 3.7 Km (NW) • Bhagoth R.F- 6.6 Km (SSW) • Dhanaghar Extension R.F- 6.9 Km (NNE) • Gurunida R.F- 7.9 Km (SW) 		
n.	Project cost	Proposed – INR Rs 341.72 Crores		
o.	EMP cost	Type	Capital (Rs. in Crores)	Recurring (Rs. in Crores)
		Proposed	19.46	1.41
p.	Employment opportunity	500 persons		
q.	Water and Power requirement	(Total)Water –1180KLD, Power –12 MW		

Annexure II

The unit configuration and capacity of existing and proposed project is given as below:

Sl. No.	Plant Equipment/ Facility	Proposed Units	
		Configuration	Capacity
1	Beneficiation	1 X 1.5 MTPA	1.5 MTPA (throughput) 1.16 MTPA (High grade Ore)
2	Pelletization	2 X 0.6 MTPA	1.2 MTPA
3	Producer Gas Plant	6(5W+1S) x 4,500 Nm ³ /hr	27,000 Nm ³ /hr



Annexure III

Public Consultation Action plan as per MoEF&CC O.M. dated 30.09.2020

S. No.	Major activities	Description of Physical Target	Total Physical Targets	Physical Target along with CER Budget (Rs. In Lakhs)			Total Amount (Rs. In Lakhs)
				1 st Year	2 nd Year	3 rd Year	
A Education							
1	High School Transformational Project (smart class, science lab, etc.) partnering with Govt. of Odisha flagship project under Mo School Abhiyaan or Madhyamik Shikshya Abhiyan	Each School Shall be provided with the following- a) 8 nos. of Computers with Table & Chair @ Rs. 50,000/- b) 2 nos. of AC with inverters @ Rs. 60,000/- The 3 schools are- 1. Panchayat High School, Kapanda 2. Upper Graded Primary School, Kapanda 3. Upper Primary School, Tikayatpali	3 School	Rs. 5.2 (At Panchayat High School, Kapanda)	Rs. 5.2 (At Upper Graded Primary School, Kapanda)	Rs. 5.2 (Upper Primary School, Tikayatpali)	Rs.15.6
2	Retrofitting of Classrooms and Digital Classroom	Each year, 2 additional classrooms are proposed for retrofitting in Govt. Primary school with furniture's (1 nos. of Digital Classroom with Projector, digital interactive whiteboard systems, and its teaching software building blocks for digitally connected classroom and facilities @ Rs. 1,15,000/-	3 Schools	Rs. 2.3 (Panchayat High school, Kapanda)	Rs. 2.3 (At Govt. Primary School, Samardari, village-Tibupada)	Rs. 2.3 (At Gudhiali High School, Village-Rajamunda)	Rs.6.9
3	Improvement in basic amenities & teaching learning materials in Anganwadi center (AWC)	Each AWC shall be provided with – a. Abacus with Teaching Learning Material and Furniture @ Rs.40,000/ b. Painiting and infrastructure Development with Drinking Water facility or Toilet facility and Utensils @ Rs.	6 AWCs	Rs. 1.6 (AWCs in Kapanda-I & Kapanda-II)	Rs. 1.6 (AWCs in Darjing & Gaudiniposh-I)	2.5 (AWCs in Gaudiniposh-II & Thiaberna)	Rs.5.7

S. No.	Major activities	Description of Physical Target	Total Physical Targets	Physical Target along with CER Budget (Rs. In Lakhs)			Total Amount (Rs. In Lakhs)
				1 st Year	2 nd Year	3 rd Year	
		40,000/- The List of AWCs are Kapanda-I, Kapanda-II, Darjing, Gaudiniposh-I Gaudiniposh-II & Thiaberna. c. Teaching materials @ 45,000 to each AWC in 3 rd year.					
4	Appointment of Private Teachers in Schools	Teachers in 4 Schools (2 Primary & 2 High school)	2 Primary & 2 High school	Rs. 3.4 (2 Primary School in Kapanda & Tikayatpali)	Rs. 1.7 (Panchayat high school)	Rs. 1.7 (Gudhiali High school)	Rs.6.8
5	School Bus	2 School Bus for Panchayat High School & Tikayatpali Primary School. However, District Education Officer shall be consulted for finalizing the School.	3 School Bus	Rs. 8.1 Gudhiali High School	Rs. 8.1 Panchayat High School	Rs. 8.1 Tikayatpali Primary School	Rs.24.3
	Sub Total (Education)			20.6	18.9	19.8	Rs. 59.3
B	Health						
1	Ambulance	1 Ambulance serving the peripheral villages to be positioned at KAI Plant and 2 Ambulance at Kapanda GP & Nuwagan GP respectively.	3 Nos.	Rs.20.3	Rs.20.3	Rs. 20.3	Rs.60.9
2	Health camp	2 Health Camps per year with a focus on Kapanda, Fatajharan, Tikayatpali,	6 health Camps	Rs. 2.1 2 Health Camps Under Kapanda G.P,	Rs. 2.1 2 Health Camps Under Fatajharan GP.	Rs. 2.2 2 Health Camps Under Tikayatpali G.P	Rs.6.4
3	Setting-up a Dispensary	Setting up a Dispensary serving Plant workers and local Community	3 Nos.	Rs. 29.1 Nearby Kapanda Village area	Rs. 29.1 Nearby Nuwagan Village area	Rs. 29.1 Nearby Tikayatpali Village area	Rs.87.3
	Sub Total (Health)			51.5	51.5	51.6	Rs.154.6

S. No.	Major activities	Description of Physical Target	Total Physical Targets	Physical Target along with CER Budget (Rs. In Lakhs)			Total Amount (Rs. In Lakhs)
				1 st Year	2 nd Year	3 rd Year	
C Drinking Water							
1.	Purified Drinking Water Facility at Public Places	In total 3 nos of Purified Drinking Water shall be installed at strategic public locations. Each Facility shall have a purifier machine. The locations are Kapanda Village, Fatajharan Village, Tikayatpali Village, Nuwagan & Talbahali. This location may change considering the number of floating population.	5 Nos	Rs. 8.9 (Kapanda & Fatajharan Village)	Rs. 8.9 (Tikayatpali & Nuwagan Village)	Rs. 4.5 (Talbahali Village)	Rs.22.3
2.	Installation of new Bore well & Hand Pump with sintex tank	In total 6 nos. of Hand pumps shall be installed at locations are Kapanda Village, Fatajharan Village, Tikayatpali Village, Nuwagan & Talbahali. This location may change considering the number of floating population.	5 village	Rs. 2.9 (Kapanda & Fatajharan Village,)	Rs. 2.9 (Tikayatpali & Nuwagan Village)	Rs. 1.4 (Talbahali Village)	Rs. 7.2
	Sub Total (Drinking Water)			11.8	11.8	5.9	29.5
D Environment							
1	Rain Water Harvesting in Govt. Schools and Govt. Institutions	Rain Water Harvesting shall be taken-up in 30 schools/Govt Offices/Govt Institutions @ Rs. 28,000/-	30 School s/ Institution/ Offices	Rs. 2.8 (10 Nos of schools/Govt Offices/Govt Institutions)	Rs.2.8 (10 Nos of schools/Govt Offices/Govt Institutions)	Rs. 2.8 (10 Nos of schools/ Govt Offices/ Govt Institutions)	Rs. 8.4
2	Plantation/Afforestation Drive (including sampling and protection like tree guard etc)	30 Schools or Govt. offices or Govt. Institution shall be covered within 3 years @80 trees in each school (Rs. 300/ trees)	30 School s/ Institution/ Offices	Rs. 2.4 (10 Nos of schools/Govt Offices/Govt Institutions)	2.4 (10 Nos of schools/Govt Offices/Govt Institutions)	2.4 (10 Nos of schools/ Govt Offices/ Govt Institutions)	Rs. 7.2
3.	Garbage collection from villages and suitable disposal arrangement	Under Bharat Swachata Abhiyan 3 villages near plant locality & 3 schools	3 Village s & 3	Rs. 0.8 (4 plastic dustbin & 1	Rs. 0.8 (4 plastic dustbin & 1 dumpster	Rs. 1.0 (4 plastic dustbin & 1 dumpster	Rs. 2.6

S. No.	Major activities	Description of Physical Target	Total Physical Targets	Physical Target along with CER Budget (Rs. In Lakhs)			Total Amount (Rs. In Lakhs)
				1 st Year	2 nd Year	3 rd Year	
		provided plastic Dustbin @ Rs. 5000/- and Steel dumpster Garbage Container @ Rs. 55,000/-	Schools	dumpster Garbage container in Kapanda Village. 1 Plastic dustbin in Primary School in Kapanda)	Garbage container in Nuwagan Village. 1 Plastic dustbin in Panchayat high school)	Garbage container in Tikayatpali Village. 1 Plastic dustbin in Tikayatpali Primary school)	
	Sub Total (Environment)			Rs. 6.0	Rs. 6.0	Rs. 6.2	Rs. 18.2
E	Livelihood						
1	Promotion of Income Generation Activities- Tailoring & embroidery etc. & Provision of different skills of women members of SHG along with market linkage	150 interested women beneficiaries within 10 SHG members of neighbouring GP shall be trained within 2 years i.e. 5 Group with 10 member in each group shall be trained every year	150 Women	Rs. 14.1 (50 Nos. of Under Nuwagan G.P)	Rs. 14.1 (50 Nos. of Under Kapanda G.P)	Rs. 14.1 (50 Nos. Under Tikayatpali G.P)	Rs. 42.3
2	Farmers input support for improving the yield for better return	200 interested and selective farmers shall be provided with inputs for 3 years	200 Farmers	Rs. 11.7	Rs. 11.7	Rs. 11.8	Rs. 35.2
3	Initiatives for promotion of Millet through farmers along with market support.	Creating Millet hub for collection & Marketing	3 Nos.	15 (Kapanda Village)	15 (Nuwagan Village)	15 (Fatajharan Village)	Rs. 45
	Sub Total (Livelihood)			Rs. 17.8	Rs. 17.8	Rs. 17.9	Rs. 122.5
F	Infrastructure						
1	Community Centre /youth club house	Amenities in Community Centre & Yoga teacher deployment in Community Centre	3 Nos.	25 (Kapanda Village)	25 (Nuwagan Village)	25 (Fatajharan Village)	Rs. 75
2	Village Solar Street Lights	Solar Streetlights at nearby villages @ 100 Street lights/ Year	300 Solar Streetlights	Rs. 20.3	Rs. 20.3	Rs. 20.3	Rs. 60.9
	Sub Total (Infrastructure)			Rs.31.6	Rs.31.6	Rs.31.6	Rs. 135.9
	GRAND TOTAL			Rs. 139.4	Rs. 137.7	Rs. 132.8	Rs. 520 Lakh (Rs. 5.20 Crore)

Specific conditions and general conditions

A. Specific Condition:

- i. This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.
- 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. PP shall strictly adhere to the Joint Committee's observations and recommendations as outlined in its report in the matter of litigation bearing Original Application No. 94/2021/EZ filed at Honourable NGT.
- v. Village Daldali Sai is at a distance of 0.5 km in the SW of the project site along with other sensitive areas such as Samaradari Juniani PF (0.41 Km, E), Kukia R.F (0.12 Km (NW) etc. within the study area of the project site. Proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. PP needs to strengthen green belt all around the plant area to reduce the dust pollution. The PP shall also include some of these locations in its environmental monitoring programme.
- vi. Brahmani River is at a distance of 1.6 km in West of the project site along with other water bodies within the study area of 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.
- vii. The water requirement of 1180 m³/day which shall be sourced from Brahmani River. PP shall obtain necessary permission from the Competent Authority in this regard. No Ground water abstraction is permitted.
- viii. Three tier Green Belt shall be developed in at least 33% of the project area in a period of one year all along 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 also 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 to act as green barrier for air pollution & noise levels towards sensitive areas nearby project site. Compliance

status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.

- ix. All the commitments made towards socio-economic development of the nearby villages 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 amounting to Rs. 5.20 Crores shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.
- x. PP shall undertake village adoption programme and prepare and implement the action plan to develop them into a model village.
- xi. The recommendations of the approved Site-Specific Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.
- xii. PP shall obtain permission from the State Forest Department for any tree felling involved in the project.

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 04Nos. Continuous Ambient Air Quality Station (CAAQMS) 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 carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM₁₀ and PM_{2.5} in reference to PM emission, and SO₂ and NO_x in reference to SO₂ and NO_x emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.
- iii. 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.

- iv. Sampling facility at process stacks shall be provided as per CPCB guidelines for manual monitoring of emissions.
- v. 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.
- vi. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
- vii. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
- viii. Ensure covered transportation and conveying of raw material to prevent spillage and dust generation. The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
- ix. The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.
- x. Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
- xi. Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.
- xii. Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.
- xiii. 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.
- xiv. Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.
- xv. Water Sprinklers/Water mist system shall be installed near raw material yards, operational units and other strategic locations to control fugitive emissions from the plant.
- xvi. The particulate matter emissions from the process stacks shall be less than 30 mg/Nm^3 and measures shall be undertaken as per the submitted action plan. Efficient Air monitoring equipment shall be installed.
- xvii. Following additional arrangements to control fugitive dust shall be provided:
 - a. Fog / Mist Sprinklers at all on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas.
 - b. Proper covered vehicle shall be used while transport of materials.
 - c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.

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 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. 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.
- iv. Water meters shall be provided at the inlet to all unit processes in the plants.
- v. The project proponent shall make efforts to minimise water consumption in the plant complex by segregation of used water, practicing cascade use and by recycling treated water.
- vi. 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. Suitable measures shall be adopted for sewage water handling to ensure no contamination of any kind of water body.
- vii. All stockyards shall have impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains and catch pits to trap the run off material and shall be implemented as per the action plan submitted in EIA/EMP report.
- viii. Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.
- ix. Tailing management plan shall be implemented as included in EIA report.
- xviii. Tailings from Iron Ore beneficiation plant shall be dewatered in filter press and no slime /tailing pond shall be permitted.
- xix.

IV. Noise monitoring and prevention

- i. Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and amendments thereof, and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- ii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

V. Energy Conservation measures

- i. 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;
- ii. Provide LED lights in their offices and residential areas.

VI. Waste management

- i. Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil.
- ii. Kitchen waste shall be composted or converted to biogas for further use.
- iii. 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.
- iv. 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.
- v. A proper action plan must be implemented to dispose of the electronic waste generated in the industry.

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.
- iii. Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.

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. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP. Safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- iv. Occupational health surveillance of the workers shall be done on a regular basis and records maintained.

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.
- iv. 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. 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. Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented
- vi. 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.
- vii. 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.
- viii. 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.
- ix. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- x. The recommendations of the approved Site-Specific Wildlife Management Plan (in case of involvement of Schedule-I species) shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.
- xi. 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.
- xii. 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).
- xiii. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xiv. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xv. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xvi. 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.

xvii. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

