



सत्यमेव जयते

File No: IA-J-11011/172/2023-IA-II(IND-I)  
Government of India  
Ministry of Environment, Forest and Climate Change  
IA Division  
\*\*\*



Date 01/11/2024



To,  
M/s/ INDO ASIA COPPER LIMITED  
7th Floor, Hasubhai Chamber, Opp. Town Hall, Ellisbridge, Ahmedabad-380006, Gujarat., Ahmedabad,  
AHMADABAD, GUJARAT, 380006  
Email: esg@indoasiacopper.com

**Subject: Setting up of Greenfield Integrated Copper Plant of 10 LTPA with Fertilizer Plant of 16.5 LTPA by M/s Indoasia Copper Limited, located at Village Lunsapur, Amreli district, Gujarat - Grant of Environmental Clearance-Reg**

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/GJ/IND1/478838/2024 dated 27/07/2024 for grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 and as amended thereof. PP submitted a written response and a revised EIA report on the Parivesh portal on October 15<sup>th</sup> 2024.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC24A1004GJ5330471N
(ii) File No.	IA-J-11011/172/2023-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),5(a) Chemical fertilizers
(vi) Sector	Industrial Projects - 1
(vii) Name of Project	Greenfield Integrated Copper plant 10 LTPA and Fertilizer plant 16.5 LTPA
(viii) Name of Company/Organization	INDO ASIA COPPER LIMITED
(ix) Location of Project (District, State)	AMRELI, GUJARAT
(x) Issuing Authority	MoEF&CC
(xi) Applicability of General Conditions as per EIA Notification, 2006	No

3. The proposed project activity is listed at schedule no. 3(a) Metallurgical Industries (ferrous & non-ferrous) under Category “A” of the schedule of the EIA Notification, 2006 and appraised at Central Level.

4. The proposal was initially considered during the 64th meeting of the EAC for Industry-I sector held on 21st – 23rd August, 2024 wherein the Committee deferred the proposal due to technical shortcomings. The instant proposal was again considered in the 66th EAC Meeting held during 23rd -25th September, 2024 wherein after detailed deliberations, the committee recommended the proposal for grant of Environment Clearance under the provisions of EIA Notification, 2006 subject to the stipulation of specific conditions and general conditions. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed at <https://parivesh.nic.in>.

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 I Sector) are at **Annexure-II**.

6. The Unit configuration and capacity of the proposed project is at **Annexure-III**.

### **Deliberations by EAC**

7. The EAC, in its 66th EAC Meeting held during 23rd -25th September, 2024, inter-alia, deliberated the following:

i. The instant proposal is for setting up of a new Integrated Copper Plant for production of 10 Lakh Tons Per Annum (LTPA).

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. PP submitted that total land is 161.58 ha [Private: 156.39 ha agricultural land; Govt. owned waste-land / scrub-land: 5.19 ha]. Out of 161.58 ha. of land 55.08 ha. land is already converted to non-agriculture for industrial purpose for Copper and Fertilizer project of Project Proponent M/s Indo Asia Copper Ltd. The Notarized Memorandum of Understanding SL NO : 8827/2024 dated 3rd July 2024 is duly executed amongst the Project Proponent M/s Indo Asia Copper Ltd., the Parent company (Kiri industry Limited), and the Promoters dated third July 2024 , and confirms the acquisition of the land and some are in process for the complete considered project, 161.58 ha. for the whole project. The EAC opined that PP shall complete the process of acquisition and conversion of project land for industrial purpose prior to commencement of project.

vii. Lothpur Village (1.6 km, NE), Lunsapur Village (1.7 km, S), Tulsapur Village (1.9 km, S) exists along with other sensitive areas 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. The project proponent 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.

viii. It is reported that two first-order streams flow across the project site from west to east. The PP also informed the EAC that they have obtained a No Objection Certificate (NOC) from the Lunsapur Gram Panchayat, as documented in a letter dated 17th May 2023, which was presented to the EAC. IACL has submitted an undertaking detailing the efforts made to obtain an NOC from the Irrigation Department/WRD and confirm that the Gram Panchayat holds equivalent authority in this matter. Additionally, there is a pond at 1 km in South along with other water bodies within the study area of the project site. The EAC opined that 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 prepared and implemented.

ix. The EAC acknowledged that the current proposal involves an interlinked / interdependent project with multi-sectoral components. The project includes establishing a new Integrated Copper Plant (with a production capacity of 10 lakh tonnes per annum) and a Fertilizer Plant (with a production capacity of 16.5 lakh tonnes per annum). PP has reported that Sulphuric Acid will be produced at the Copper Smelter as a by-product. The sulphuric acid from the copper plant will be utilized for manufacture of fertilizers. Separate TOR for the Fertilizer Plant has been obtained vide letter no. IA-J-11011/329/2023-IA-II(I) dated 10.09.2023. The EAC deliberated on the comprehensive EIA/EMP report for the integrated project presented to EAC and further discussed on the segregated details for both the Copper Plant and Fertilizer Plant projects on all key aspects and found it satisfactory. The EAC further is of the opinion that PP shall obtain all the necessary permissions for the integrated project prior to commencement of project.

x. The make-up water requirement for the proposed project is estimated as 32,800 m<sup>3</sup>/day which is proposed to be obtained from the Narmada pipeline through Gujarat Water Infrastructure Ltd. (GWIL). The EAC is of the opinion that PP shall obtain necessary permission in this regard.

xi. It is reported that project land involves 50 trees that will be felled. The PP reported that trees identified within the core zone are all thorny babul trees that fall in List A category which is exempted as per Govt. of Gujarat notification dated 10.09.2023. PP has clarified that there is no forest land involved in the proposed plant site. IACL has undertaken to plant 4000 nos. of trees in nearby villages, in consultation with village panchayats. The EAC opined that PP shall undertake tree felling/translocation in consultation with the State Forest Department.

xii. The Committee has deliberated on the baseline data along and incremental GLC due to the proposed project and noted that baseline data for PM10 and PM2.5 during baseline collection is recorded too high. The EAC opined that PP shall undertake stringent measures to minimise the levels of PM10 and PM2.5.

xiii. The EAC deliberated on the hazardous waste management plan presented by PP for the project specifically with respect to management of slag. PP has undertaken that they will strictly comply with the stipulations of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 regarding disposal of Hazardous wastes generated during the project's construction and operation. Even Copper Slag generated during operation of the plant shall be handled and disposed strictly as per CPCB "Guidelines on Management of Pyro-metallurgical Slags (Copper Smelters), August 2023. The EAC deliberated on the submission of PP and is of the opinion that PP shall strictly comply with their commitments. Further, there shall be a periodical monitoring of hazardous water and sludges and the report shall be submitted to SPCB with a copy to IRO, MoEF&CC.

xiv. The EAC noted that a Secured Land Fill (SLF) is proposed over 11.13 ha within the project premises for disposal of ETP waste sludge and spent catalyst. The EAC opined that PP shall explore the recycling and disposal of sludge and waste through external agency rather than in house disposal. PP reported that IACL has already signed an MoU with a cement manufacturer for sale of 15,00,000 TPA of slag and an MoU with a cement manufacturer for sale of 2416500 TPA of phosphor-gypsum. Similar MoU(s) will be signed for sale of the balance slag at the appropriate time. PP has further undertaken that the SLF - Secured Land Fill planned in a designated area within the plant premises, shall be designed , constructed , monitored and operated as per stipulated in CPCB's "Criteria for Hazardous Waste Landfills" (Hazardous Waste Management Series: HAZWAMS/17/2000-01) Guide Lines.

xv. The EAC also advised to undertake testing of radioactivity in ore on annual basis and report the same to IRO, MoEF&CC, AERB and SPCB.

xvi. The EAC also advised PP to deploy sufficient truck mounted dust sweeping machines for roads inside the plant as

well as nearby local habitation.

xvii. There are Schedule I fauna found in the study area which includes Jackal, Fox, Grey Mongoose, Wild Cat, Asiatic Lion, Peafowl, Brahminy Kite, Cotton Teal, Indian River Tern, Indian Flap-shell Turtle, Indian Soft-shell Turtle, Indian Cobra, Indian Python, Russel's Viper and Rat Snake. Site Specific Wildlife Conservation Plan has been approved by the Chief Wildlife Warden, Gujarat vide letter no. WLP/C/T-2/25-24/2023-24 dated 20.05.2024. The total budget for implementation of Approved Site Specific Wildlife Conservation plan has been finalised at Rs. 11.2 crores. The EAC opined that Wildlife Conservation Plan shall be strictly implement post approval.

xviii. The PP has submitted that greenbelt will be developed in 53.74 ha which is about 33% of the total project area. Total no. of ~134000 saplings will be planted and nurtured in 53.74 ha in 3 years. 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 period of 2 years. The EAC further advised that PP shall engage a specialised agency for developing the greenbelt. PP shall also develop a separate in-house Environmental Cell, with qualified personnel for maintaining the greenbelt as per CPCB guidelines.

xix. PP has reported that there are Mangroves on the banks of tidal creeks 5 – 9 km S / SW / SE of the project site. PP has undertaken that they will adopt stringent air pollution control practices and install state of the art air pollution control systems which will ensure that the air quality at the mangroves' areas do not change much beyond the existing air quality. The plant shall not discharge any waste water to ensure that the quality of the water of the channels on whose banks mangroves are growing is unaffected. No solid wastes will be dumped outside the plant. In addition IACL will arrange to plant 5 ha of mangroves through a competent agency on land made available by the State Forest Department. The EAC deliberated on the same and found it satisfactory. The EAC further opined that additional mangrove plantation shall be undertaken in consultation with Gujarat Forest Department.

xx. The Committee also deliberated on the public hearing issues along with revised action plan submitted by the proponent to address the issues raised during the public hearing and found it satisfactory.

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

xxii. The EAC deliberated on the PP's reply to the representation dated 20.07.2024 received against the project and found it satisfactory.

xxiii. The EAC also deliberated on the ADS reply of project proponent and found it satisfactory. It noted PP's submission that while ADS reply was filed on the Parivesh Portal on 13th September 2024, it could not upload EIA Report due to technical glitch on the portal. Hence, the EIA Report and ADS reply was circulated to all EAC Members on the same day i.e. 13th September, 2024. The EAC asked the PP to upload the Revised EIA Report, circulated among the members, on the Parivesh Portal.

xxiv. The EAC also deliberated on the written submission of project proponent and found it satisfactory.

xxv. 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.

xxvi. 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.

xxvii. 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.

8. The EAC (Industry-1 Sector), in its 66th EAC Meeting held during 23rd -25th September, 2024, 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 EC conditions as detailed in the point below.

#### **Decision by MoEFCC**

9. 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 Indoasia Copper Limited** under the provisions of EIA Notification, 2006 subject to the following specific conditions and general conditions (**Annexure-I**). The instant EC shall cover the Copper smelting and associated/ incidental operations.

10. 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.

11. 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.

12. 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.

13. 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.

14. This issues with approval of the competent authority.

(Dinesh Runiwal)  
Scientist 'F'/Director  
Tel: 011-20819346  
Email-d.runiwal@gov.in

#### **Copy To**

1. The Secretary, Forests and Environment Department, Government of Gujarat, Block 14, 8th Floor, Sachivalaya, Gandhinagar, Gujarat -10
2. The Director General of Forest, Ministry of Environment, Forest and Climate Change, New Delhi.
3. The Principal Chief Conservator of Forests & Government of Gujarat, Dr. Jivraj Mehta Bhawan, Block No. 14 Old Sachivalaya, Ist Floor, Gandhinagar-382010
4. The Deputy Director General of Forests (C), Integrated Regional Office(IRO), Ministry of Environment, Forest and Climate Change, Room No. 407, Aranya Bhawan, Near CH-3 Circle, Sector 10A, Gandhinagar, Gujarat – 382010
5. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 110032
6. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhawan, Sector-10A, Gandhinagar, Gujarat – 382043
7. The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi,

Delhi 110001

8. The District Collector, District Amreli , Gujarat

9. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi.

10. Guard File/Monitoring File/Record File/ Parivesh Portal

(Dinesh Runiwal)  
Scientist 'F'/Director

## Annexure 1

### Specific EC Conditions for (Metallurgical Industries (Ferrous And Non Ferrous))

#### 1. Specific

S. No	EC Conditions
1.1	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.
1.2	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.
1.3	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.
1.4	PP shall complete the process of acquisition and conversion of project land for industrial purpose prior to commencement of project.
1.5	Lothpur Village (1.6 km, NE), Lunsapur Village (1.7 km, S), Tulsapur Village (1.9 km, S) exists along with other sensitive areas 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. Proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. The project proponent 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. The pollution level (in air, water and soil) in these two villages shall be measured on half-yearly basis.
1.6	As reported, two first-order streams flow across the project site from west to east. Additionally, there is a pond at 1 km in South 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. PP shall allocate sufficient funds to implement these measures through qualified persons. PP shall submit the monitoring status to the Ministry through the IRO periodically.
1.7	PP shall obtain all the necessary permissions for the integrated/ interlinked project prior to commencement of project.

S. No	EC Conditions
1.8	The water requirement of 32,800 m <sup>3</sup> /day shall be obtained from the Narmada pipeline through Gujarat Water Infrastructure Ltd. (GWIL). PP shall obtain necessary permission from the Competent Authority.
1.9	Three tier Green Belt shall be developed in atleast 33% of the project area in a period of 2 year of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. PP shall develop greenbelt in the form of shelter belt comprising of total of 6 rows of 2x2 m plantation with tall trees & broad leaves with thick canopy along with windshield inside the plant premises to act as green barrier for air pollution & noise levels towards sensitive areas nearby project site. PP shall engage a specialised agency for developing the greenbelt. PP shall also develop a separate in-house Environmental Cell, with qualified personnel for maintaining the greenbelt as per CPCB guidelines. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.
1.10	PP shall explore the possibility to bare minimise the felling of proposed 50 trees. The same shall be undertaken in consultation with the State Forest Department. Further, as committed, IACL shall plant additional 4000 nos. of trees in nearby villages, in consultation with village panchayats.
1.11	PP shall undertake stringent measures to minimise the levels of PM10 and PM2.5.
1.12	PP shall strictly comply with the stipulations of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 regarding disposal of Hazardous wastes generated during the project's construction and operation. Copper Slag generated during operation of the plant shall be handled and disposed strictly as per CPCB "Guidelines on Management of Pyro-metallurgical Slags (Copper Smelters), August 2023. There shall be a periodical monitoring of hazardous waste and sludges and the report shall be submitted to SPCB with a copy to IRO, MoEF&CC.
1.13	Sludge generated from the electro-refining process and gas cleaning systems containing copper, sulphur, and other by-products shall be managed as per the Hazardous Waste Management Rules notified by MoEFCC. Dewatered sludge shall be sent for metal recovery or disposed of in secure landfill facilities.
1.14	PP shall explore the recycling and disposal of sludge and waste through external agency rather than in house disposal.
1.15	Secured Land Fill planned in a designated area within the plant premises, shall be designed , constructed , monitored and operated as per stipulated in CPCB's "Criteria for Hazardous Waste Landfills" (Hazardous Waste Management Series: HAZWAMS/17/2000-01) Guide Lines. Slag disposal in landfills shall only occur after ensuring the material is non-hazardous and will not leach contaminants into the environment.
1.16	PP shall undertake hydrogeological study and monitoring of air and water parameters, in line with standard procedures prescribed by CPCB or any other agency of repute for SLFs, and submit results to CPCB as well as RO MoEFCC.
1.17	PP shall formulate SOP for Utilization of Slags. PP shall formulate an Environmental Policy for continuous improvement by adopting cleaner / new techniques, which shall be approved by the company's Board.

S. No	EC Conditions
1.18	PP shall ensure that mercury from the smelter gases is removed and disposed of as hazardous waste in accordance with applicable regulations and guidelines.
1.19	PP shall conduct annual testing of ore for radioactivity. The results of these tests shall be reported to the IRO, MoEF&CC, the Atomic Energy Regulatory Board (AERB), CPCB and SPCB.
1.20	PP shall install and operate a Sulphuric Acid Plant with high-efficiency conversion units to capture sulphur dioxide (SO <sub>2</sub> ) from smelting operations and convert it into sulphuric acid. PP shall take measures to prevent leakage of sulphuric acid at any location.
1.21	PP shall ensure that adequate scrubbing and filtration systems are in place to capture and remove arsenic, a by-product of copper ore smelting, from flue gases before they are released into the atmosphere. Regular monitoring and sampling of arsenic emissions shall be performed, and the waste collected from the scrubbing process shall be treated and disposed of as hazardous waste.
1.22	All copper concentrate received at the plant shall be handled in enclosed systems to prevent spillage and contamination of soil or water. Any accidental spillage of copper concentrate shall be promptly cleaned, and the contaminated material disposed of as per hazardous waste protocols.
1.23	PP shall maintain an annual record of mass balance for elements such as As, Bi, Sb, Se, Te, and Hg considering the total quantity charged and total quantity recovered or emitted through various streams.
1.24	PP shall deploy sufficient truck mounted dust sweeping machines to cover the roads inside the plant as well as nearby local habitation.
1.25	PP shall implement stringent air pollution control measures and install state-of-the-art pollution control systems to maintain the air quality in the mangrove areas. The plant shall not discharge wastewater, ensuring the protection of water channels adjacent to mangroves. Furthermore, no solid waste shall be disposed of outside the plant premises. Additionally, PP shall undertake a mangrove plantation of 5 ha in collaboration with a competent agency, and further mangrove plantation shall be carried out in consultation with the Gujarat Forest Department.
1.26	All the commitments made in this EC proposal towards socio-economic development of the nearby villages shall be satisfactorily implemented and corresponds to Copper plant only. Accordingly, 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. 123 Crores shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.
1.27	The project proponent shall undertake village adoption programme and prepare and implement the action plan to develop them into a model village.
1.28	The PP shall undertake plantation, in compliance to MoEFCC OM dated 24.07.2024, in the earmarked 33% greenbelt area as a part of tree plantation campaign 'Ek Ped Maa Ke Naam' Campaign and the details of the same shall be uploaded on MeriLiFE portal at ( <a href="https://merilife.nic.in">https://merilife.nic.in</a> )
1.29	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



S. No	EC Conditions
	MoEF&CC.
1.30	The ground water around the “secured land fill” (SLF) should be monitored before start of its operations for hazardous elements, and thereafter, once in every six months and reported to IRO.
1.31	The slag must be disposed off at regular intervals from the slag yard.

**Standard EC Conditions for (Metallurgical Industries (ferrous and non ferrous))**

**1. Statutory Compliance**

S. No	EC Conditions
1.1	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.
1.2	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.

**2. Air Quality Monitoring And Preservation**

S. No	EC Conditions
2.1	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 (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.
2.2	The project proponent shall carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.
2.3	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.
2.4	Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions.

S. No	EC Conditions
2.5	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.
2.6	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
2.7	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
2.8	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.
2.9	The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.
2.10	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
2.11	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.
2.12	Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.
2.13	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.
2.14	Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.
2.15	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.
2.16	The particulate matter emissions from the process stacks shall be less than 30 mg/Nm <sup>3</sup> and measures shall be undertaken as per the submitted action plan. Efficient Air monitoring equipment shall be installed.
2.17	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.

### 3. Water Quality Monitoring And Preservation

S. No	EC Conditions
3.1	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.
3.2	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.
3.3	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.
3.4	Water meters shall be provided at the inlet to all unit processes in the steel plants.
3.5	The project proponent shall make efforts to minimise water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.
3.6	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.
3.7	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.
3.8	Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.

#### 4. Noise Monitoring And Prevention

S. No	EC Conditions
4.1	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.
4.2	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.

#### 5. Energy Conservation Measures

S. No	EC Conditions
5.1	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;

S. No	EC Conditions
5.2	Provide LED lights in their offices and residential areas.

## 6. Waste Management

S. No	EC Conditions
6.1	Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil.
6.2	Kitchen waste shall be composted or converted to biogas for further use.
6.3	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.
6.4	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 <a href="https://cpcb.nic.in/technical-guidelines-3/">https://cpcb.nic.in/technical-guidelines-3/</a> . 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.
6.5	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.

## 7. Green Belt

S. No	EC Conditions
7.1	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.
7.2	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.
7.3	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.

## 8. Public Hearing And Human Health Issues

S. No	EC Conditions
8.1	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
8.2	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.
8.3	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.
8.4	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.

### 9. Environment Management

S. No	EC Conditions
9.1	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.
9.2	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
9.3	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
9.4	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.
9.5	Monitor the health of the soil in the vicinity of the Plant (5 K.M. radius) periodically (once six months), specifically with respect to the hazardous elements, apart from other parameters, and report to the IRO.

### 10. Miscellaneous

S. No	EC Conditions
10.1	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

S. No	EC Conditions
	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.
10.2	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.
10.3	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.
10.4	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.
10.5	Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented
10.6	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.
10.7	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.
10.8	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.
10.9	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.
10.10	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.
10.11	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.
10.12	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).

S. No	EC Conditions
10.13	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.
10.14	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
10.15	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
10.16	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.
10.17	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.

**Additional EC Conditions**

NA



S.No	Particulars	Details																					
a.	Terms of Reference for undertaking EIA study	18.09.2023																					
b.	Period of baseline data collection	01-10-2022 to 31-12-2022 (Post Monsoon Season, 2022)																					
c.	Date of Public Consultation	13th March, 2024																					
d.	Action plan to address the PH issues	Please refer <b>Annexure-IV</b>																					
e.	Location of the project	located at Village Lunsapur, Amreli district, Gujarat																					
f.	Total land	161.58 ha [Private: 156.39 ha agricultural land; Govt. owned waste-land / scrub-land: 5.19 ha]																					
g.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	<p>The total land area required for the project is 161.58 ha.</p> <table border="1"> <thead> <tr> <th>Type of Doc</th> <th>Bigha</th> <th>Ha</th> </tr> </thead> <tbody> <tr> <td>Registered Land</td> <td>409.219675</td> <td>66.19</td> </tr> <tr> <td>Agreement for Sale</td> <td>32.087175</td> <td>5.19</td> </tr> <tr> <td>Consent Letter</td> <td>495.3419</td> <td>80.12</td> </tr> <tr> <td>Govt. application letter</td> <td>32.149</td> <td>5.2</td> </tr> <tr> <td>Other Supporting doc</td> <td>29.985125</td> <td>4.85</td> </tr> <tr> <td><b>Total</b></td> <td><b>998.782875</b></td> <td><b>161.58</b></td> </tr> </tbody> </table> <p>Out of 161.58 ha. of land 55.08 ha. land is already converted to non-agriculture for industrial purpose to use for Copper and Fertilizer project of Project Proponent M/s Indo Asia Copper Ltd.</p> <p>The Notarized Memorandum of Understanding SL NO : 8827/2024 dated 3<sup>rd</sup> July 2024 is duly executed amongst the Project Proponent M/s Indo Asia Copper Ltd., the Parent company (Kiri industry Limited), and the Promoters dated third July 2024, and confirms the acquisition of the land and some are in process for the complete considered project, 161.58 ha. for the whole project.</p>	Type of Doc	Bigha	Ha	Registered Land	409.219675	66.19	Agreement for Sale	32.087175	5.19	Consent Letter	495.3419	80.12	Govt. application letter	32.149	5.2	Other Supporting doc	29.985125	4.85	<b>Total</b>	<b>998.782875</b>	<b>161.58</b>
Type of Doc	Bigha	Ha																					
Registered Land	409.219675	66.19																					
Agreement for Sale	32.087175	5.19																					
Consent Letter	495.3419	80.12																					
Govt. application letter	32.149	5.2																					
Other Supporting doc	29.985125	4.85																					
<b>Total</b>	<b>998.782875</b>	<b>161.58</b>																					
h.	Existence of habitation & involvement of R&R, if any	<p><b>Project Site:</b> Nil</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>Lothpur Village</td> <td>1.6 km</td> <td>North-east</td> </tr> <tr> <td>Lunsapur Village</td> <td>1.7 km</td> <td>South</td> </tr> <tr> <td>Tulsapur Village</td> <td>1.9 km</td> <td>South</td> </tr> <tr> <td>Babarkot Village</td> <td>7.8 km</td> <td>South</td> </tr> <tr> <td>Syntex Staf Colony</td> <td>1.65 km</td> <td>South</td> </tr> </tbody> </table>	Habitation	Distance	Direction	Lothpur Village	1.6 km	North-east	Lunsapur Village	1.7 km	South	Tulsapur Village	1.9 km	South	Babarkot Village	7.8 km	South	Syntex Staf Colony	1.65 km	South			
Habitation	Distance	Direction																					
Lothpur Village	1.6 km	North-east																					
Lunsapur Village	1.7 km	South																					
Tulsapur Village	1.9 km	South																					
Babarkot Village	7.8 km	South																					
Syntex Staf Colony	1.65 km	South																					



S.No	Particulars	Details																										
		Syntex Plant	0.95 km	South-West																								
		Rampara Village	5.5 km	East																								
		Uchaiya Village	4.0 km	East																								
		Vad Village	3.5 km	North-east																								
		Hindorna Village	6.4 km	North-east																								
		Kagvadar Village	3.0 km	North-West																								
		Kotadi Village	9.5 km	North-West																								
		Nageshree Village	6.8 km	South-West																								
		Vandh Village	5.0 km	South-West																								
		Rajula town	8.0 km	North-North-East																								
		Jafarabad town	9.5 km	South-West																								
		Vararup Village	6.5 km	South-East																								
		Bhakodar Village	7.5 km	South-South-East																								
		Saroda Village	5.5 km	West-North-West																								
		Katar Village	8.5 km	West-North-West																								
		Kovaya Village	5.5 km	South-east																								
		Bherati Village	6.5 km	East-North-East																								
		Bhachadar Village	4.0 km	North-East																								
		Kadiyali Village	8.7 km	North-East																								
		Chhatadia Village	6.2 km	North-East																								
		Barpatoli Village	3.8 km	North-West																								
		Kagyadar Village	2.8 km	West-North-West																								
		Chotra Village	7.8 km	West																								
		Khalsa Kanthariya Village	7.0 km	West																								
i.	Elevation of the project site	19 m Above Mean Sea Level																										
j.	Involvement of Forest land if any.	No Forest Land Involved																										
k.	Water body exists within the project site as well as study area	<p><b>Project Site:</b> Two (2) un-named first order streams</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>Dhatarwadi Nadi</td> <td>~2.15 km</td> <td>North-East</td> </tr> <tr> <td>RaydiNadi</td> <td>~4 km</td> <td>West-South-West</td> </tr> <tr> <td>Lunsapuriya Baba Mandir pond</td> <td>~1 km</td> <td>South</td> </tr> <tr> <td>Dhatarwadi Dam</td> <td>~7.6 km</td> <td>North</td> </tr> <tr> <td>Raydi Dam</td> <td>~9 km</td> <td>West-North-West</td> </tr> <tr> <td>Gulf of Khambat</td> <td>~8.5 km</td> <td>South-East</td> </tr> <tr> <td>Inlet of Jafarabad Creek</td> <td>~1.5 km</td> <td>South-West</td> </tr> </tbody> </table>			Water Body	Distance	Direction	Dhatarwadi Nadi	~2.15 km	North-East	RaydiNadi	~4 km	West-South-West	Lunsapuriya Baba Mandir pond	~1 km	South	Dhatarwadi Dam	~7.6 km	North	Raydi Dam	~9 km	West-North-West	Gulf of Khambat	~8.5 km	South-East	Inlet of Jafarabad Creek	~1.5 km	South-West
Water Body	Distance	Direction																										
Dhatarwadi Nadi	~2.15 km	North-East																										
RaydiNadi	~4 km	West-South-West																										
Lunsapuriya Baba Mandir pond	~1 km	South																										
Dhatarwadi Dam	~7.6 km	North																										
Raydi Dam	~9 km	West-North-West																										
Gulf of Khambat	~8.5 km	South-East																										
Inlet of Jafarabad Creek	~1.5 km	South-West																										
l.	Existence of ESZ / ESA / national park / wildlife Sanctuary / biosphere Reserve /	<p>Nil</p> <p><b>List of Reserved and protected forests:</b></p>																										

S.No	Particulars	Details						
	tiger reserve / elephant reserve etc. if any within the study area	<ul style="list-style-type: none"> <li>RF part of Tulsishyam range near Uchaiya village (~6.0 Km towards E of project site)</li> <li>RF part of Tulsishyam range near Kovaya village (~6.2 Km towards SE of project site)</li> <li>RF near Vararup (~7.8 Km towards S of project site)</li> <li>RF (open scrub) near Babarkot (~7.9Kmtowards S of project site)</li> </ul> RF part of Tulsishyam range near Raydi dam (~8.6 Km towards NW of project site)						
m.	Project cost	The capital cost of the proposed project is Rs. 15,689 Crores						
n.	EMP cost	<table border="1"> <thead> <tr> <th>EMP</th> <th>Capital (Rs. in Crores)</th> <th>Recurring (Rs. in Crores)</th> </tr> </thead> <tbody> <tr> <td></td> <td>1304Crores</td> <td>21.8Crores</td> </tr> </tbody> </table>	EMP	Capital (Rs. in Crores)	Recurring (Rs. in Crores)		1304Crores	21.8Crores
EMP	Capital (Rs. in Crores)	Recurring (Rs. in Crores)						
	1304Crores	21.8Crores						
o.	Employment opportunity	The employment generation from the proposed project is ~2500 during construction & ~2700 during operation directly						
p.	Water and Power requirement	Total water requirement will be 32,800 m <sup>3</sup> /day. Power – Total power requirement for the proposed project will be around 274 MW						
q.	CPA/SPA	The project does not fall under CPA/SPA. The map showing the distance of CPA/SPA from the project site has been provided in PARIVESH Portal.						
r.	Details of inter-linked projects	Project comprises of 1.0 MTPA Copper Smelter-cum-Refinery as well as 1.65 MTPA Fertilizer Plant. Sulphuric Acid will be produced at the Copper Smelter as a by-product. The sulphuric acid from the copper plant will be utilized for manufacture of fertilizers. Separate TORs were issued by MoEF&CC for preparation of EIA-EMP report for the Copper Plant letter no. IA-J-11011/172/2023-IA-II(IND-I) dated 18/09/2023 and for the Fertilizer Plant vide letter no. IA-J-11011/329/2023-IA-II(I) dated 10/09/2023.						

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

Sl. No.	Plant Equipment / Facility	Final	
		Configuration	Capacity
1	Copper Smelter Plant	2 X 300,000 TPA	600,000 TPA
2	Copper Converter plant (MTC)	2 X 300,000 TPA	600,000 TPA
3	Scrap melting plant	2 X 200,000 TPA	400,000 TPA
4	Anode Refining & Casting Plant	2 X 500,000 TPA	10,00,000 TPA
5	Copper Refinery	2 X 500,000 TPA	10,00,000 TPA
6	Continuous Cast Copper Wire Rod (CCR) Plant	2 X 500,000 TPA	10,00,000 TPA
7	Sulphuric acid plant	2 X 11,31,686 TPA	22,63,372 TPA
8	Precious metal recovery plant	Gold: 2 x 2.94 TPA Silver: 2 x 29.1 TPA Selenium 2 x 108 TPA	Gold: 5.88TPA Silver: 58.2 TPA Selenium 216 TPA
9	Oxygen plant	2 x 1600 TPD	3200 TPD
10	Waste heat boiler with BPTG	2 x 12 MW	24 MW
11	Slag Granulation Plant	2 x 8,17,800 TPA	16,35,600 TPA
12	Secured Land fill	11.13 ha	
13	Phosphoric acid plant	1 x 400,000 TPA + 1 x 275,000 TPA	675,000 TPA
14	Fertilizer Plant	2 x 600,000 TPA + 1 x 450,000 TPA	16,50,000 TPA
15	Granulated Phospho-gypsum Plant	200,000 TPA	200,000 TPA
16	GFRG Rapidwall Panel Plant	9,000,000 m <sup>2</sup>	9,000,000 m <sup>2</sup>

## Action plan as per MoEF&amp;CC O.M. dated 30/09/2020:

Sl. No.	Area	Name of Activity	Physical Target	Year of Implementation after Project Completion				Total Budget in Rs. Crores
				1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	
1	Model village	Development of model villages (Lothpur & Lunsapur) by installing of solar street lights, construction of RCC roads, community centre, public water purifier system, tree plantation, RWH, sanitary toilets, smart school, drainage system, bus shelter	2 nos.	1	1	-	-	9
2	Opportunities for Education & Employment	Renovation of existing schools & sanitation	20 nos.	5	5	5	5	4
3		Installation of Smart classes in the Government schools	25 nos.	6	6	6	7	6
4		Establishment of skill development centres for providing technical education to youth	10 nos.	2	2	3	3	15
5		Establishment of training centres for rural women development	15 nos.	3	4	4	4	5
6		Establishment of Public library at Panchayat bhavans	8 nos.	2	2	2	2	3
7		Health	Upgradation of infrastructure at local health centres	10 nos.	3	4	5	5
8	Roads	Improving mainstream access roads of villages	5 km	1	1	1	2	10
9	Livelihood	Construction of Anganwadi (construction of rooms, installation of cooler, fans & lights, furniture and other necessary furniture)	25 nos.	5	5	7	8	15

Sl. No	Area	Name of Activity	Physical Target	Year of Implementation after Project Completion				Total Budget in Rs. Crores
				1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	
10		Distribution of Agricultural equipment (Ploughs and Harrows and Fertilizer spreaders) to needy farmers	1000 nos.	200	200	300	300	5
11		Distribution of fertilizers to farmers	1000 nos.	200	200	200	400	1
12		Providing solar based water pumps for the farmers	30 nos.	5	5	10	10	1
13		Distribution of life jackets and fishing nets to fishermen	1000 nos.	200	300	200	300	5
14	Drinking water & sanitation facilities	Installation of water RO purifiers at public places	20 nos.	5	5	5	5	3
15		Construction & repair of drainage systems in villages	15 nos.	3	3	4	5	5
16		Construction of sanitary toilets	60 nos.	5	10	20	25	1.5
17	Environment	Restoration of village ponds	10 nos.	1	2	3	4	1.5
18		Installation of roof-top rain water harvesting structures in schools / government buildings	20 nos.	4	5	6	7	1.8
19		Installation of solar street-lights in villages	200 nos.	50	50	50	50	2
20		Tree plantation along roads & in villages	4000 nos.	500	1000	1000	1500	1
21		Development of Mangrove plantation/strengthening existing plantations with State Forest Department/Concerned authorities	5 ha	1	1	1	2	0.2
22	Support in sports activities	Upgradation of sports facilities in schools / colleges	4 nos.	1	1	1	1	1

Sl. No.	Area	Name of Activity	Physical Target	Year of Implementation after Project Completion				Total Budget in Rs. Crores
				1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	
23		Renovation of existing sports infrastructures and playgrounds	10 nos.	2	2	3	3	5
24	Infrastructure	Construction of sheds for fish and vegetable market	10 nos.	2	2	3	3	7
<b>Total Budget</b>								<b>123</b>

