



File No: IA-J-11011/576/2009-IA-II(I)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division



Date **02/01/2025**



To,

M/s. JANKI CORP LIMITED
DOOR NO 77, WARD NO 22, 2ND CROSS LEFT KAPPAGAL ROAD, BALLARI, KARNATAKA,
NEAR HDFC BANK, 583101
E-mail: narahari@jcl.co.in

Subject: Expansion of steel plant by increasing the production capacity of sponge iron from 4,10,000 TPA to 4,46,000 TPA, pellet from 6,00,000 TPA to 7,20,000 TPA and establishment of ferro alloy plant 6 x 18 MVA producing ferro silicon – 39,600 TPA or silico manganese – 79,200 TPA or ferro manganese – 1,08,900 TPA or ferro chrome – 91,000 TPA by M/s. JANKI CORP LIMITED, located at Sidiginamola Village, Rupanagudi Hobli, Bellary Taluk, Bellary District, Karnataka- Grant of EC-Reg.

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/KA/IND1/493460/2024 dated 19/10/2024 for grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC24A1005KA5245753N
(ii) File No.	IA-J-11011/576/2009-IA-II(I)
(iii) Clearance Type	Fresh EC
(iv) Category	A
(v) Project/Activity Included Schedule No.	3(a) Metallurgical Industries (ferrous and non ferrous)
(vi) Sector	Industrial Projects - 1
(vii) Name of Project	Expansion of Steel Plant by M/s. Janki Corp Limited
(viii) Name of Company/Organization	JANKI CORP LIMITED
(ix) Location of Project (District, State)	BALLARI, KARNATAKA
(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), 2(b) Mineral Beneficiation and 1(d) Thermal Power Plants under Category “A” of the schedule of the EIA Notification, 2006 and appraised at Central Level.
4. The instant proposal is considered in 68th EAC Meeting held during 5th – 6th November, 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 EAC proceedings of the said meeting can be seen using the following web link: 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 1 Sector) are at **Annexure-II**.
6. The Unit configuration and capacity of the proposed project is at **Annexure-III**.
7. The EAC, in its 68th EAC Meeting held during 5th – 6th November, 2024, inter-alia, deliberated the following:
- The instant proposal is for expansion of steel plants by increasing the production capacity of Sponge Iron from 4,10,000 TPA to 4,46,000 TPA, Pellet from 6,00,000 TPA to 7,20,000 TPA within the existing industrial premises and also the industry is proposing to install Ferro Alloy Plant - 6 X 18 MVA consisting manufacturing of Ferro Silicon - 39,600 TPA or Silico Manganese - 79,200 TPA or Ferro Manganese- 1,08,900 TPA or Ferro Chrome- 91,000 TPA.
 - The existing project was initially accorded environmental clearance vide Ir.no. F.No.J-11011/576/2009-IA-II(I) dated 23.01.2012 for expansion of Sponge Iron Plant (1,80,000 TPA to 4,00,000 TPA) and installation of Iron Ore Beneficiation Plant (0.6 MTPA). Thereafter, the project was accorded environmental clearance vide Slr.no. J-11011/576/2009-IA-II(I) dated 14/11/2022 for setting up of for new Steel Melting Shop-3,72,352 (TPA), Steel Rolled Product of 3,43,312 TPA, Sponge Iron Plant of 2× 350 TPD, Captive Power plant of 40 MW (AFBC-21 MW, WHRB-19 MW) to the Existing Facility: Sponge Iron Plant: 6× 100 TPD, Pellet Plant: 6,00,000 TPA, Captive Power Plant 15 MW (WHRB) and Iron Ore Beneficiation Plant 6,00,000 TPA within the existing premises. The latest Consent to Operate was accorded by Karnataka State Pollution Control Board vide slr.no. AW-330986 dated 21/04/2022. The validity of CTO is up to 30/06/2027.
 - 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.
 - 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.
 - 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.
 - 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.
 - PP submitted that total plant area is 243.04 ha. The land acquisition of total area of 243.04 ha is completed and is converted for Industrial use.
 - Karekal – 1.5 km (N) Sidiginamola– 2.3 km (SW) Villages along with other sensitive areas within the study area of the project site. The EAC opined that 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.

ix. A Seasonal Nala flowing across the Plant, Seasonal Nala at 0.6 km, Tungabhadra Right Canal at 2 km flowing from west to north of project site, Hagari/Vedavathi River flowing from north to south on west side of the project site at 3 Km within the study area from the project site. Further there are several 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.

x. Existing Water requirement is 8,835 m³/day, which is obtained from Hagari water supply unit & Sewage Treatment Plant of Ballari City Corporation. The water requirement for the proposed project is estimated as 937 m³ /day, out of which 37 m³/day of fresh water requirement will be obtained from the Hagari water supply unit and the remaining requirement of 900 m³ /day will be met from the Bellary sewage treatment plant. The water from Bellary STP will be treated in in-house STP of 13 MLD (Existing – 5 MLD & Proposed – 8 MLD). The EAC is of the opinion that PP shall obtain necessary permission in this regard.

xi. The Committee has deliberated on the baseline data along and incremental GLC due to the proposed project and found it satisfactory.

xii. 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.

xiii. PP reported that existing green belt has been developed in 61.53 ha area which is about 39.47% of the total project area of 155.87 ha with total trees of 92,132 numbers and shrubs of 40,000 numbers. Proposed greenbelt will be developed in an additional land of 33.18 ha which is about 38.97% of the total project area 243.04 ha. Thus, total of 94.71 ha area (38.97 % of total project area) will be developed as greenbelt. Total no. of 1,73,592 saplings will be planted and nurtured in 94.71 hectares in 5 years. The EAC deliberated on the greenbelt details submitted by the project proponent and is of the opinion that greenbelt shall be completed within a period of 3 years.

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

xv. The committee deliberated on the certified compliance report of IRO and found it satisfactory.

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

xvii. The EAC deliberated on the proposal with due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC found the proposal in order and recommended for grant of environmental clearance.

xviii. The environmental clearance recommended to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. It does not tantamount/construe to approvals/consent/permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

xix. 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 68th EAC Meeting held during 5th – 6th November, 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.

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. Janki Corp Limited** under the provisions of EIA Notification, 2006 subject to the following specific conditions and general conditions (**Annexure-I**).

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. Secretary, Department of Environment, Government of Karnataka, Secretariat, Bangalore-560 001.
2. Chairman, Karnataka State Pollution Control Board, No. 25, 6- 9th Floor, Public Utility Building, M.G. Road, Bangalore – 560 001.
3. Regional Officer, Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Kendriya Sadan, 4th Floor, E&F Wings, 17th Main Road, Koramangala II Block, Bangalore – 560034
4. Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-Cum-Office Complex, East Arjun Nagar, New Delhi-110 032.
5. Member Secretary, Central Ground Water Authority, A-2, W3, Curzon Road Barracks, K.G. Marg, New Delhi-110001.
6. Chief Wildlife Warden, Govt. of Karnataka, Aranya Bhawan, 18th Cross, Malleswaram, Bangalore-560003
7. District Collector, Bellary District, Karnataka.
8. Guard File/Monitoring File/Website/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 carbon emission and shall also develop adequate carbon sink/ carbon sequestration resources with an aim to meet the carbon neutrality mission in a time bound manner. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.
1.4	Karekal – 1.5 km (N) Sidiginamola– 2.3 km (SW) Villages 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.
1.5	A Seasonal Nala flowing across the Plant, Seasonal Nala at 0.6 km, Tungabhadra Right Canal at 2 km flowing from west to north of project site, Hagari/Vedavathi River flowing from north to south on west side of the project site at 3 Km within the study area from the project site. Further there are several 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 shall be implemented.
1.6	An adequate robust Erosion control and Soil Conservation Program (like Storm water diversion; Storm water drains with catch pits to trap run off material; Garland drains; Retention walls; Settling Ponds; Wheel washing arrangement; Silt removal from settling ponds & utilization; Greening & Paving; Excavated soil preservation for landscaping) shall be implemented.
1.7	Water requirement of 9,772 m ³ /day is proposed to be sourced from Hagari water supply unit & Sewage Treatment Plant of Ballari City Corporation. PP shall obtain necessary permissions from the Competent Authority.
1.8	Three tier Green Belt shall develop greenbelt in atleast 33% of the project area, in a period of 3 years, 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. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.
1.9	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. 2.0

S. No	EC Conditions
	Crores shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.
1.10	The project proponent shall undertake village adoption programme and prepare and implement the action plan to develop them into a model village.
1.11	The project proponent shall implement a support program for nearby farmers to promote sustainable agriculture, animal husbandry, and allied activities. This program shall include regular technical assistance, capacity-building workshops, and financial support for agricultural inputs and infrastructure.
1.12	No sale of dolochar is permitted.
1.13	Producer gas plant shall be closed circuit type.
1.14	The PP may use Non-coking coal and coking coal, quartzite. PP has to monitor coal dust and silica content in different process plants using personal and area sampling and compare the concentrations with permissible exposure limits of Indian Factories Act. PP shall also monitor coal dust exposure concentrations at coal handling areas, ball mills, furnace charging areas through personal/area monitoring and it shall be within permissible limit.
1.15	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 (https://merilife.nic.in)
1.16	Water sprinkling may be carried out on village roads to suppress dust.

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 04 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.
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	Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/agglomeration.
2.10	The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.
2.11	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
2.12	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.
2.13	Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.
2.14	The project proponent shall adopt the Clean Air practices like mechanical collectors, wet

S. No	EC Conditions
	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.
2.15	Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.
2.16	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.
2.17	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.
2.18	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. Air Quality Monitoring And Preservation In Case Of Ferro Alloy Plants

S. No	EC Conditions
3.1	Briquetting and Jigging plant shall be installed in Ferro Alloys Plant.
3.2	The PP shall minimize the evaporation losses in jigging operation to less than 10% using suitable advanced process.
3.3	The 4th hole extraction system shall be provided in the Sub Merged Arc Furnaces and EAF.
3.4	Industry is going to use silica quartz in large quantities and going to produce Silico Manganese and Ferro Silicon alloy steel. Therefore, it is necessary to control silica/quartz exposures at production Departments, not only emission norms as per Indian Factories Act. The permissible limit for silica/quartz should be within 10 mg/m ³ for total dust as per Indian Factories Act. Therefore, it is recommended to monitor personal and area exposures for silica quartz dust in the process plants.
3.5	During operational phase at Captive Power Plant, Action Plan to monitor coke/coal dust exposures in different process plants using personal and area air samplers and to compare with permissible limits as per Indian Factories Act, 1948 shall be implemented.
3.6	The coal dust should be monitored at coal unloading, crushing, furnace areas and should be within 2 mg/m ³ , respirable dust fraction containing less than 5% quartz as per Indian Factories Act, 1948.
3.7	Online stack monitoring system for IF and RHF shall be installed and monitoring report shall be submitted to the concerned Regional Office of the MoEF&CC along with the six monthly

S. No	EC Conditions
	compliance report.
3.8	Low NOx Burners will be installed at Reheating Furnace for control of Gaseous emissions generated while using PNG.
3.9	Construct annual Wind Rose Diagrams (for all seasons). Use data from secondary sources, if required.
3.10	Install CO sensors in the Plant at strategic locations.

4. Water Quality Monitoring And Preservation

S. No	EC Conditions
4.1	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.
4.2	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.
4.3	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.
4.4	Water meters shall be provided at the inlet to all unit processes in the steel plants.
4.5	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.
4.6	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.
4.7	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.
4.8	Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.

5. Water Quality Monitoring And Preservation In Case Of Rolling Mills

S. No	EC Conditions
5.1	The project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R 277 (E) 31st March 2012 (applicable to IF/EAF) as amended from time to time.
5.2	Air Cooled condensers shall be used in the captive power plant.
5.3	Tailing management plan shall be implemented as included in EIA report.
5.4	Tailings from Iron Ore beneficiation plant shall be dewatered in filter press and no slime /tailing pond shall be permitted.

6. Noise Monitoring And Prevention

S. No	EC Conditions
6.1	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.
6.2	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.
6.3	PP shall identify extreme hot areas through heat stress survey as well as noise monitoring within process plants to ensure that workers not exposed above 90 dBA levels as per Factories Act, 1948.

7. Energy Conservation Measures

S. No	EC Conditions
7.1	Use torpedo ladle for hot metal transfer as far as possible. If ladles not used, provide covers for open top ladles.
7.2	Restrict Gas flaring to < 1%.
7.3	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;
7.4	Provide LED lights in their offices and residential areas.

8. Energy Conservation Measures In Case Of Reheating Furnace

S. No	EC Conditions
8.1	The project proponent shall provide waste heat recovery system (pre-heating of combustion air) at the flue gases of reheating furnaces.
8.2	Practice hot charging of slabs and billets/blooms as far as possible.

S. No	EC Conditions
8.3	Ensure installation of regenerative type burners on all reheating furnaces

9. Energy Conservation Measures In Case Of Dri Kilns (Sponge Iron)

S. No	EC Conditions
9.1	The project proponent shall provide waste heat recovery system on the DRI Kilns.
9.2	The dolochar generated shall be used for power generation.
9.3	Tar shall be recovered from producer gas and shall be sold to registered processors and phenolic water shall be incinerated in After Burn Chamber (ABC) of DRI kilns.
9.4	The PP shall implement the guidelines on sponge iron plants issued by the CPCB/SPCB in this regard.

10. Waste Management

S. No	EC Conditions
10.1	Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil.
10.2	Kitchen waste shall be composted or converted to biogas for further use.
10.3	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.
10.4	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 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.
10.5	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.
10.6	Solid waste utilization: a. PP shall install a slag crusher to convert steel slag into aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in cement making. b. PP shall recycle/reuse solid waste generated in the plant as far as possible. c. Used refractories shall be recycled as far as possible.

11. Waste Management In Case Of Sinter Plant

S. No	EC Conditions
11.1	SMS slag after metal recovery in waste recycling facility shall be conditioned and used for road making, railway track ballast and other applications. The project proponent shall install a waste recycling facility to recover metallic and flux for recycle to sinter plant. The project proponent shall establish linkage for 100% reuse of rejects from Waste Recycling Plant.
11.2	Carbon recovery plant to recover the elemental carbon present in GCP slurries for use in Sinter plant shall be installed.
11.3	Waste recycling Plant shall be installed to recover scrap, metallic and flux for recycling to sinter plant and SMS.

12. Green Belt

S. No	EC Conditions
12.1	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.
12.2	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.
12.3	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.

13. Public Hearing And Human Health Issues

S. No	EC Conditions
13.1	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
13.2	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.
13.3	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.
13.4	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.

14. Environment Management

S. No	EC Conditions
14.1	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.
14.2	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.
14.3	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.
14.4	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.
14.5	Monitor the health of the soil in the vicinity of the Plant (5 K.M. radius) periodically (once a year) and report to the IRO.

15. Miscellaneous

S. No	EC Conditions
15.1	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 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.
15.2	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.
15.3	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.
15.4	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.
15.5	Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented

S. No	EC Conditions
15.6	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.
15.7	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.
15.8	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.
15.9	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.
15.10	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.
15.11	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.
15.12	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).
15.13	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.
15.14	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
15.15	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
15.16	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.
15.17	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

PP shall complete the conversion of total land for industrial purpose prior to commencement of proposed expansion project

Details of the proposal are as per the EIA/EMP report

Sl. No	Particulars	Details			Remarks	
i	Total Land	Sl No	Type of land		Existing (ha)	Proposed (ha)
		1	KIADB Land		88.67	--
		2	Non-Agricultural Land		47.09	6.72
		3	KLA(u/s) 109 land		20.10	19.45
		4	Agricultural land to be converted to industrial use		-	61.00
		Sub Total		155.87	87.17	
		Total		243.04		
ii	Land Acquisition details as per MoEF O.M dated 7/10/2014.	The land acquisition of total area of 243.04 ha is completed.			-	
iii	Existence of habitation involvement of R&R, if any	Project site: Sidiginamola village Study Area			There is no habitation on the proposed project area. Land is converted for Industrial use. So, R & R policy is not applicable.	
		Habitation	Distance	Direction		
		Karekal Village	1.5 KM	N		
		Sidiginamola Village	2.3 KM	SW		
		Byalachinthe Village	2.5 KM	NW		
		Gollanaganahalli Village-	2.7 KM	NW		
		Joladharashi Village	3.4 KM	S		
		Meenahalli Village	3.4 KM	SW		
		K. Veerapura Village	4.2 KM	E		
iv	Latitude and Longitude of all the corners of project site	Corners	Latitude	Longitude		
		A	15°11'21.34"N	77° 5'46.89"E		
		B	15°11'21.54"N	77° 6'1.39"E		
		C	15°11'18.67"N	77° 6'1.28"E		
		D	15°11'17.34"N	77° 5'59.78"E		
		E	15°11'17.06"N	77° 5'52.78"E		
		F	15°11'11.40"N	77° 5'52.76"E		
		G	15°11'10.63"N	77° 5'53.84"E		
		H	15°11'8.22"N	77° 6'6.00"E		
		I	15°11'7.37"N	77° 6'13.51"E		
		J	15°11'13.54"N	77° 6'15.85"E		
		K	15°11'13.39"N	77° 6'22.24"E		

Sl. No	Particulars	Details			Remarks
		L	15°11'14.41"N	77° 6'23.52"E	
		M	15°11'18.76"N	77° 6'24.23"E	
		N	15°11'18.80"N	77° 6'26.36"E	
		O	15°11'4.41"N	77° 6'25.77"E	
		P	15°11'2.69"N	77° 6'33.03"E	
		Q	15°10'59.50"N	77° 6'33.02"E	
		R	15°10'56.61"N	77° 6'52.92"E	
		S	15°10'47.07"N	77° 6'51.26"E	
		T	15°10'46.57"N	77° 6'51.91"E	
		U	15°10'32.38"N	77° 6'48.45"E	
		V	15°10'32.76"N	77° 6'47.27"E	
		W	15°10'18.02"N	77° 6'43.11"E	
		X	15°10'18.32"N	77° 6'41.54"E	
		Y	15°10'22.30"N	77° 6'42.46"E	
		Z	15°10'23.70"N	77° 6'36.65"E	
		AA	15°10'6.86"N	77° 6'31.41"E	
		AB	15°10'7.74"N	77° 6'28.88"E	
		AC	15°10'14.04"N	77° 6'30.72"E	
		AD	15°10'15.69"N	77° 6'27.84"E	
		AE	15°10'28.27"N	77° 6'30.92"E	
		AF	15°10'28.64"N	77° 6'25.43"E	
		AG	15°10'18.29"N	77° 6'22.23"E	
		AH	15°10'21.25"N	77° 6'12.66"E	
		AI	15°10'24.11"N	77° 5'58.11"E	
		AJ	15°10'32.82"N	77° 5'59.64"E	
		AK	15°10'34.98"N	77° 5'46.12"E	
		AL	15°10'41.20"N	77° 5'47.43"E	
		AM	15°10'39.40"N	77° 5'56.80"E	
		AN	15°10'44.54"N	77° 5'58.10"E	
		AO	15°10'46.65"N	77° 5'48.06"E	
		AP	15°10'56.86"N	77° 5'49.72"E	
		AQ	15°10'58.46"N	77° 5'42.07"E	
		AR	15°11'13.33"N	77° 5'44.34"E	
		AS	15°11'15.59"N	77° 5'45.06"E	
		AT	15°11'17.09"N	77° 5'43.90"E	
		AU	15°11'17.08"N	77° 5'42.72"E	
		AV	15°11'18.49"N	77° 5'42.72"E	
v	Elevation of the project site	451 m above mean sea level			-
vi	Involvement of Forest land if any	No Forest land is involved in the project			-

Sl. No	Particulars	Details	Remarks															
vii	Water body (Rivers, Lakes, Pond, Nala, Natural Drainage, Canal etc.) exists within the project site as well as study area	<u>Project site:</u> Seasonal Nala is passing within the project site. <u>Study area</u> <table><tr><th>Water Body</th><th>Distance</th><th>Direction</th></tr><tr><td>Seasonal Nala flowing across the Plant</td><td>-</td><td>-</td></tr><tr><td>Seasonal Nala</td><td>0.6 KM</td><td>S</td></tr><tr><td>Tungabhadra right canal</td><td>2 KM</td><td>NW</td></tr><tr><td>Vedavathi River</td><td>3 KM</td><td>W</td></tr></table>	Water Body	Distance	Direction	Seasonal Nala flowing across the Plant	-	-	Seasonal Nala	0.6 KM	S	Tungabhadra right canal	2 KM	NW	Vedavathi River	3 KM	W	<u>Project site:</u> Buffer of 10m with plantation has been considered for Nala and flow of nala is not disturbed.
Water Body	Distance	Direction																
Seasonal Nala flowing across the Plant	-	-																
Seasonal Nala	0.6 KM	S																
Tungabhadra right canal	2 KM	NW																
Vedavathi River	3 KM	W																
viii	Existence of ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve etc. if any within the study area	None within 10 km Radius	None within 10 km Radius															

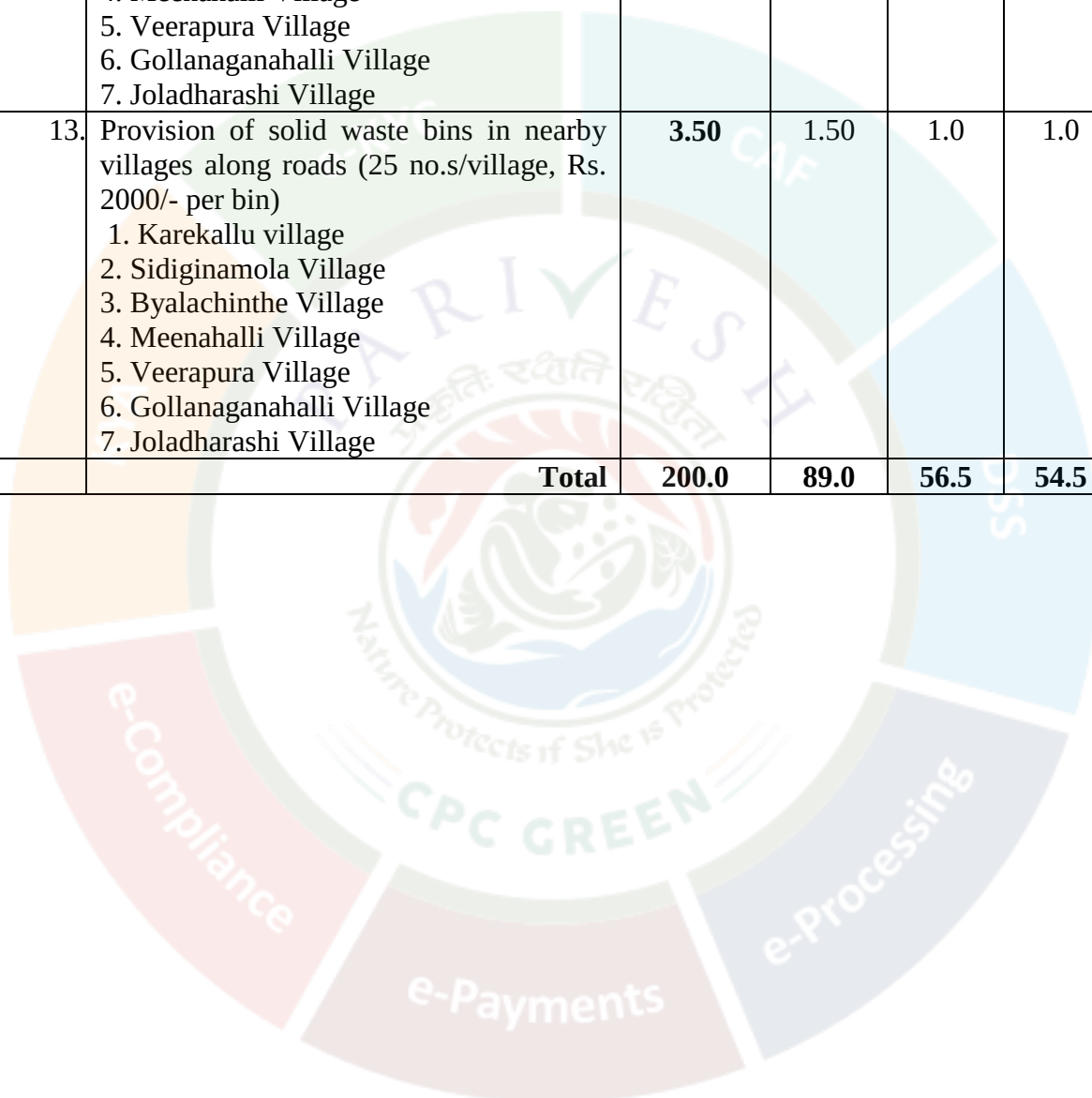
Unit configuration and capacity

Sl · No	Plant Equipm ent/ Facility	Existing facilities as per EC dated 23.01.2012 & 14/11/2022				Propo sed Units	Final (Existing + Proposed)		Remarks
		Total (A+B)	Impleme nted (A)	Un- impleme nted (B)	As per CTO		Con fig	Capac ity	
		Capac ity in TPA	Capacity in TPA	Capacity in TPA	Capac ity in TPA				Capacit y
1.	Iron Ore beneficia tion Plant	6,00,0 00	6,00,000	--	6,00,0 00	--	--	6,00,0 00	--
2.	Pellet Plant	6,00,0 00	6,00,000	--	6,00,0 00	1,20,00 0	--	7,20,0 00	--
3.	Sponge Iron Plant	4,10,0 00	1,80,000	2,30,000	1,80,0 00	36,000	--	4,46,0 00	2,30,000 TPA is Under implement ation
4.	Captive Power plant	55 MW	15 MW	40 MW	15 MW	--	--	55 MW	Under implement ation
5.	Steel Melting Shop	3,72,3 52	--	3,72,352	--	--	--	3,72,3 52	
6.	Rolled Product	3,43,3 12	--	3,43,312	--	--	--	3,43,3 12	
7.	Ferro Alloy Plant	--	--	--	--	--	6 X 18 MV A	--	
7. 1	Ferro Silicon	--	--	--	--	--	--	39,600	
7. 2	Silico Mangane se	--	--	--	--	--	--	79,200	
7. 3	Ferro Mangane se	--	--	--	--	--	--	1,08,9 00	
7. 4	Ferro Chrome	--	--	--	--	--	--	91,000	

Action plan as per MoEF&CC O.M. dated 30/09/2020

Sl. No.	Particulars of Activity	Total Budget in Lakhs	Timeframe with Budget in Lakhs		
			1 st Year	2 nd Year	3 rd Year
1.	Health camps will be conducted in the nearby villages. 1. Karekallu village 2. Sidiginamola Village 3. Byalachinthe Village 4. Meenahalli Village 5. Veerapura Village 6. Gollanaganahalli Village 7. Joladharashi Village	21.0	7.0	7.0	7.0
2.	Construction of rainwater harvesting structures in Meenahalli village for farmers.	6.0	2.0	2.0	2.0
3.	Avenue plantation will be carried out in nearby villages. This will include provision of 5000 saplings 1. Karekallu village 2. Sidiginamola Village 3. Byalachinthe Village 4. Meenahalli Village 5. Veerapura Village 6. Gollanaganahalli Village 7. Joladharashi Village	28.0	25.0	1.5	1.5
4.	Skill development training programme to farmers and supply of agricultural hand tools	30.0	10.0	10.0	10.0
5.	Support to local farmers in setting up integrated farming practices	15.0	5.0	5.0	5.0
6.	Support to local farmers in setting up irrigation facilities and construction of water tanks	20.0	8.0	6.0	6.0
7.	Providing Uniform and school kit to children	17.5	7.5	5.0	5.0
8.	Social awareness programmes on use of renewable energy sources	3.0	1.0	1.0	1.0
9.	Provision of RO water purifier systems, sanitation facility and wheel chairs to the following healthcare facilities (Rs. 5 Lakhs each) 1. Government Hospital, Hosa Moka 2. Primary Health Centre, Yerragudi	10.0	4.0	4.0	2.0
10.	Skill development programme for woman entrepreneurship	15.0	5.0	5.0	5.0
11.	Providing Smart Class, Library, sanitation facility, and solid waste management facility for Sidiginamola School	10.0	4.0	3.0	3.0

Sl. No.	Particulars of Activity	Total Budget in Lakhs	Timeframe with Budget in Lakhs		
			1 st Year	2 nd Year	3 rd Year
12.	Installation of solar street lights in nearby villages (10 nos/village, Rs. 30,000/- per street light) 1. Karekallu village 2. Sidiginamola Village 3. Byalachinthe Village 4. Meenahalli Village 5. Veerapura Village 6. Gollanaganahalli Village 7. Joladharashi Village	21.0	9.0	6.0	6.0
13.	Provision of solid waste bins in nearby villages along roads (25 no.s/village, Rs. 2000/- per bin) 1. Karekallu village 2. Sidiginamola Village 3. Byalachinthe Village 4. Meenahalli Village 5. Veerapura Village 6. Gollanaganahalli Village 7. Joladharashi Village	3.50	1.50	1.0	1.0
	Total	200.0	89.0	56.5	54.5



Budget for EMP

Sl. No.	Description	Investment cost (Amount in lakhs)			Maintenance cost per year (Amount in lakhs)		
		Existing	Proposed	Total	Existing	Proposed	Total
1	Air Pollution						
	• ESP	525	-	525	98	-	98
	• Bag filter	354	15.32	369.32	80	1.52	81.52
	• Dry Fog Systems	8.5	5.31	13.81	1	0.66	1.66
	• Fixed Sprinklers	10	-	10	2	-	2
	• OCEMS	400	-	400	60	-	60
	• Mobile Water Tanker	26	10	36	1	0.8	1.8
2	Water Environment						
	• RWH system & Nala management	180	25	205	40	5	45
	• Storm water drainage	100	50	150	40	10	50
	• Main STP 13 MLD	1300	0	1300	462	0	462
	• Modular STP 150 KLD	60	15	75	6	1.5	7.5
	• ETP 120 KLD	140	0	140	90	0	90
3	Noise Environment						
	Acoustic Enclosure	7.5	1.5	9	0	0	0
4	Green Belt Development	750	868	1618	50	70	120
5	Occupational health and safety						
	• PPE & Health Checkups	150	0	150	45	0	45
	• Fire management						
6	Environmental Monitoring	0	0	0	18	10	28
7	CER Activities & PH Concerns	300	152	452	0	0	0
	TOTAL	4311	1142.13	5453.13	993	99.48	1092.48