



File No: IA-J-11011/81/2024-IA-II(Ind-I)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division



Date **08/03/2025**



To,

M/s. HIRA FERRO ALLOYS LIMITED
Belsonda Village, Murhena Road, Mahasamund District. , RAIPUR, CHHATTISGARH, , 493445
E-mail: ajay.dubey@hiragroup.com

Subject: Expansion of Ferro Alloys Production Unit (Unit II) by M/s Hira Ferro Alloys Limited, located at Urla Industrial Area, Accholi Village, Raipur Tehsil and District, Chhattisgarh - Grant of EC-Reg.

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/CG/IND1/517033/2025 dated 14/01/2025 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.	EC25A1005CG5434617N
(ii) File No.	IA-J-11011/81/2024-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),1(d) Thermal Power Plants
(vi) Sector	Industrial Projects - 1
(vii) Name of Project	Expansion of Ferro Alloys Production Unit (Unit II) located at Urla Industrial Area, Accholi Village, Raipur Tehsil and District, Chhattisgarh
(viii) Name of Company/Organization	HIRA FERRO ALLOYS LIMITED
(ix) Location of Project (District, State)	RAIPUR, CHHATTISGARH
(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) and 2(b)Mineral Beneficiation under Category “A” of the schedule of the EIA Notification, 2006 and therefore appraised at

Central Level.

4. The instant proposal is considered in 73rd EAC held during 30th – 31st January, 2025, 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 73rd EAC held during 30th – 31st January, 2025, inter-alia, deliberated the following:

i. The instant proposal for expansion of Ferro Alloys Production Unit in Phases manner. In the first phase, the production of Ferro alloys will be enhanced by “Forward integration using high-grade Mn ore and other raw material”. In the second phase, it is proposed to install an additional 11 MVA SAF and modification of existing 5 MVA SAF to 7.5 MVA to further expand the production of Ferro alloys. Additionally, 2000 KW / 3000 Kg Ferro Melt Induction Furnace for 750 Ton monthly capacity (9000 TPA) will be installed for melting of Si-Mn/Fe-Mn fines particles which is received from final product of SAF.

ii. The existing industry currently manufactures Ferro Alloys (Silico Manganese/Ferro Manganese)- 50,000 TPA and/or Pig Iron -70,000 TPA. The unit also has a 20 MW Captive Power plant. Since the unit was established prior to EIA Notification, 2006, the existing plant doesn't come under purview of earlier environmental clearance. The unit is operational as per the latest Consent to Operate issued from SPCB (CECB) vide Letter No. 7368/CECB/2023 dated 19.01.2023 (valid up to 31.12.2024).

iii. 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.

iv. 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.

v. 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.

vi. 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.

vii. The PP submitted that total area of the proposed project is 18.735 ha [Industrial]. Out of total plot area of 18.735 Ha, 0.805 Ha land is CSIDC land, 0.891 Ha land is under possession of HPSL and the rest i.e., 17.039 Ha land is private purchased land. The land has been acquired and is in the possession of the company and converted for industrial use.

viii. The proposed falls in CPA of Raipur. The EAC deliberated on the action plan in compliance to CEPI guidelines submitted by the project proponent as detailed in para above and is of the opinion that action plan shall be strictly implemented.

ix. Urla is at 0.3 km in West, Birgaon at 0.7 km in East and Rawabhata at 1.5 km in East of the project site 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.

x. There are 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 implemented.

xi. The total freshwater requirement for the complete project will be 200 KLD. Water is proposed to be sourced through Ground water and CSIDC (Chhattisgarh State Industrial Development Corporation) supply. The EAC is of the opinion that PP shall obtain necessary permission in this regard.

xii. The Committee has deliberated on the baseline data and incremental GLC due to the proposed project and noted that PM2.5 and PM10 are reported beyond standards. The EAC opined that PP shall undertake stringent measures to minimise the levels of PM10 and PM2.5.

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

xiv. The PP has submitted that approx. 22,500.5 sqm i.e., 12% of the area is developed as a green area within the premises. Additionally, 52,609 sqm i.e., 28% of the total plot area is developed outside the premises. The outside land has been allotted by Nagar Palika Nigam Birgoav at different locations i.e., Urla Muktidham, Achholi Muktidham, Rawabhata Muktidham and Other Govt. Land Urkura. Approx. 6310 nos. of trees have been planted inside the plant premises and approx. 13350 Nos. of trees have been planted outside the premises. The EAC deliberated on the greenbelt plan and is of the opinion that PP shall maximize greenbelt development within the plant premises to the extent possible. The EAC further opined that an action plan detailing the proposed greenbelt plan, including timelines and specific commitments shall be prepared and implemented.

xv. The EAC reviewed the certified compliance report from RO, SPCB, and found it satisfactory.

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

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

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

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

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

8. The EAC (Industry-1 Sector), in its 73rd EAC held during 30th – 31st January, 2025, 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 Hira Ferro Alloys Limited (HFAL) (Unit-II)** under the provisions of EIA Notification, 2006 subject to the following specific conditions and general conditions (**Annexure-I**). The PP shall ensure compliance of OM dated 14-01-2025 regarding streamlining the implementation of GSR 702 and GSR 703 dated 12-11-2024 through which projects requiring prior EC were exempted from requirement of CTE.

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, Govt..of Chhattisgarh, Department of Housing and Environment & Chairman, Chhattisgarh Environment Conservation Board, Room No- 0S/23, Mahanadi Bhawan, Nava Raipur Atal Nagar, Dist-Raipur, Chhattisgarh.
2. The Principal Chief Conservation of Forest (Wildlife & Biodiversity Conservation) cum Chief Wildlife Warden, Forest & Climate Change Department, Government of Chhattisgarh, Aranya Bhawan, North Block, Sector-19, Nava Raipur Atal Nagar, Chhattisgarh.
3. The Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change, Sub Office – Raipur, Ground Floor, Aranya Bhawan, North Block, Sector- 19, Naya Raipur, Atal Nagar, Chhattisgarh – 492002.
4. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
5. The Chairman, Chhattisgarh Environment Conservation Board, North Block Sector-19, Atal Nagar Dist- Raipur, Chhattisgarh-492001.
6. The Member Secretary, Central Ground Water Authority, A-2, W3, Curzon Road Barracks, K.G. Marg, New Delhi- 110001.
7. The District Collector, Raipur District, Chhattisgarh-492001.
8. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi.
9. Guard File/Monitoring File/Website/Record File/Parivesh Portal.

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	In pursuance to MoEF&CC OMs dated 31st October, 2019 & 30th December, 2019 issued in compliance of the order of Hon'ble NGT in OA No. 1038/2018 dated 19th August, 2019, the compliance of all the conditions applicable to CEPI shall be implemented as per the submitted plan.
1.5	Urli is at 0.3 km in West, Birgaon at 0.7 km in East and Rawabhata at 1.5 km in East of the project site 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.
1.6	There are 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.
1.7	The total freshwater requirement for the complete project will be 200 KLD. Water is proposed to be sourced through Ground water and CSIDC (Chhattisgarh State Industrial Development Corporation) supply. PP shall obtain necessary permission from the Competent Authority in this regard as applicable.
1.8	PP shall implement a project specific AQMP (Air Quality Management Plan) and undertake stringent measures to minimise the levels of PM10 and PM2.5. PP shall also commission adequate number of mobile truck mounted Fog/ Mist type of water sprinklers in the surrounding villages/ schools also on a periodic basis.
1.9	Three tier Green Belt shall be maintained in atleast 40% of the project area, as committed, 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

S. No	EC Conditions
	plants in the subsequent years. PP shall also develop greenbelt in the form of shelter belt comprising of total of 6 rows of 2x2 m plantation with tall trees & broad leaves with thick canopy along with windshield inside the plant premises to act as green barrier for air pollution & noise levels towards sensitive areas nearby project site. PP shall maximize greenbelt development within the plant premises to the extent possible. An action plan detailing the proposed greenbelt plan, including timelines and specific commitments shall prepared and implemented. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.
1.10	The PP shall undertake plantation, in compliance to MoEFCC OM dated 24.07.2024, in the earmarked 33% or 40% greenbelt area, as the case may be, 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)
1.11	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. 1.15 Crores and Recurring of Rs. 0.015 Crores shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.
1.12	The project proponent shall undertake village adoption programme and prepare and implement the action plan to develop them into a model village in consultation with State Administration.
1.13	PP shall install CO sensors with alarm at strategic locations in the Plant.
1.14	The PP shall ensure compliance of OM dated 14-01-2025 regarding streamlining the implementation of GSR 702 and GSR 703 dated 12-11-2024 through which projects requiring prior EC were exempted from requirement of CTE

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

S. No	EC Conditions
	monitor stack emission as well as 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 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 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 scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to

S. No	EC Conditions
	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.

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.
4.9	Air Cooled condensers shall be used in the captive power plant.

5. Noise Monitoring And Prevention

S. No	EC Conditions
5.1	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.
5.2	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.
5.3	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.

6. Energy Conservation Measures

S. No	EC Conditions
6.1	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;
6.2	Provide LED lights in their offices and residential areas.

7. Waste Management

S. No	EC Conditions
7.1	Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil.
7.2	Kitchen waste shall be composted or converted to biogas for further use.
7.3	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.
7.4	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.
7.5	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.

8. Green Belt

S. No	EC Conditions
8.1	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.
8.2	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.
8.3	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.

9. Public Hearing And Human Health Issues

S. No	EC Conditions
9.1	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
9.2	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.
9.3	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.
9.4	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.

10. Environment Management

S. No	EC Conditions
10.1	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.
10.2	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.
10.3	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.
10.4	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.

11. Miscellaneous

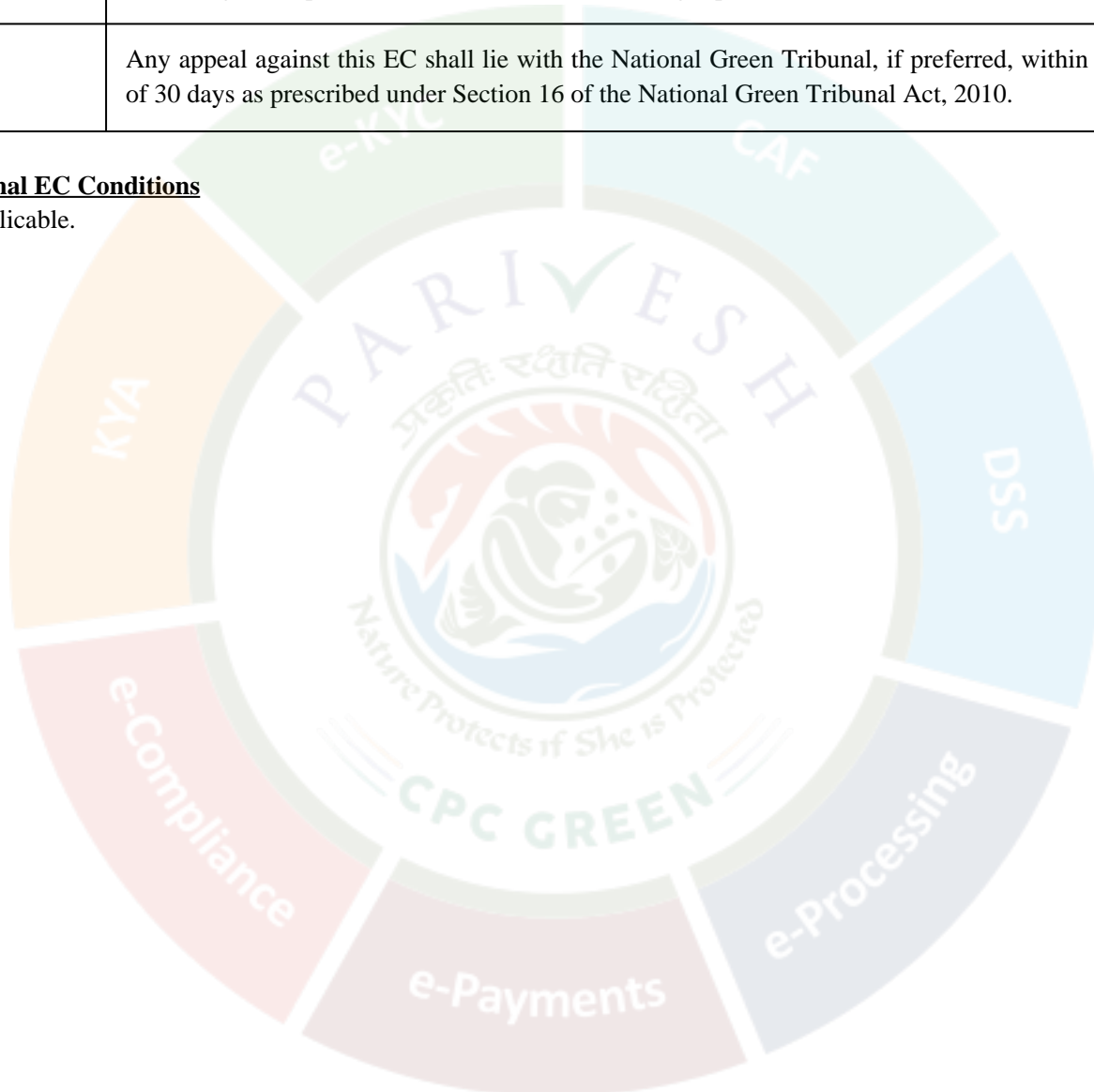
S. No	EC Conditions
11.1	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.

S. No	EC Conditions
11.2	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.
11.3	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.
11.4	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.
11.5	Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented
11.6	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.
11.7	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.
11.8	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.
11.9	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.
11.10	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.
11.11	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.
11.12	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).
11.13	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.

S. No	EC Conditions
11.14	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
11.15	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
11.16	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.
11.17	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

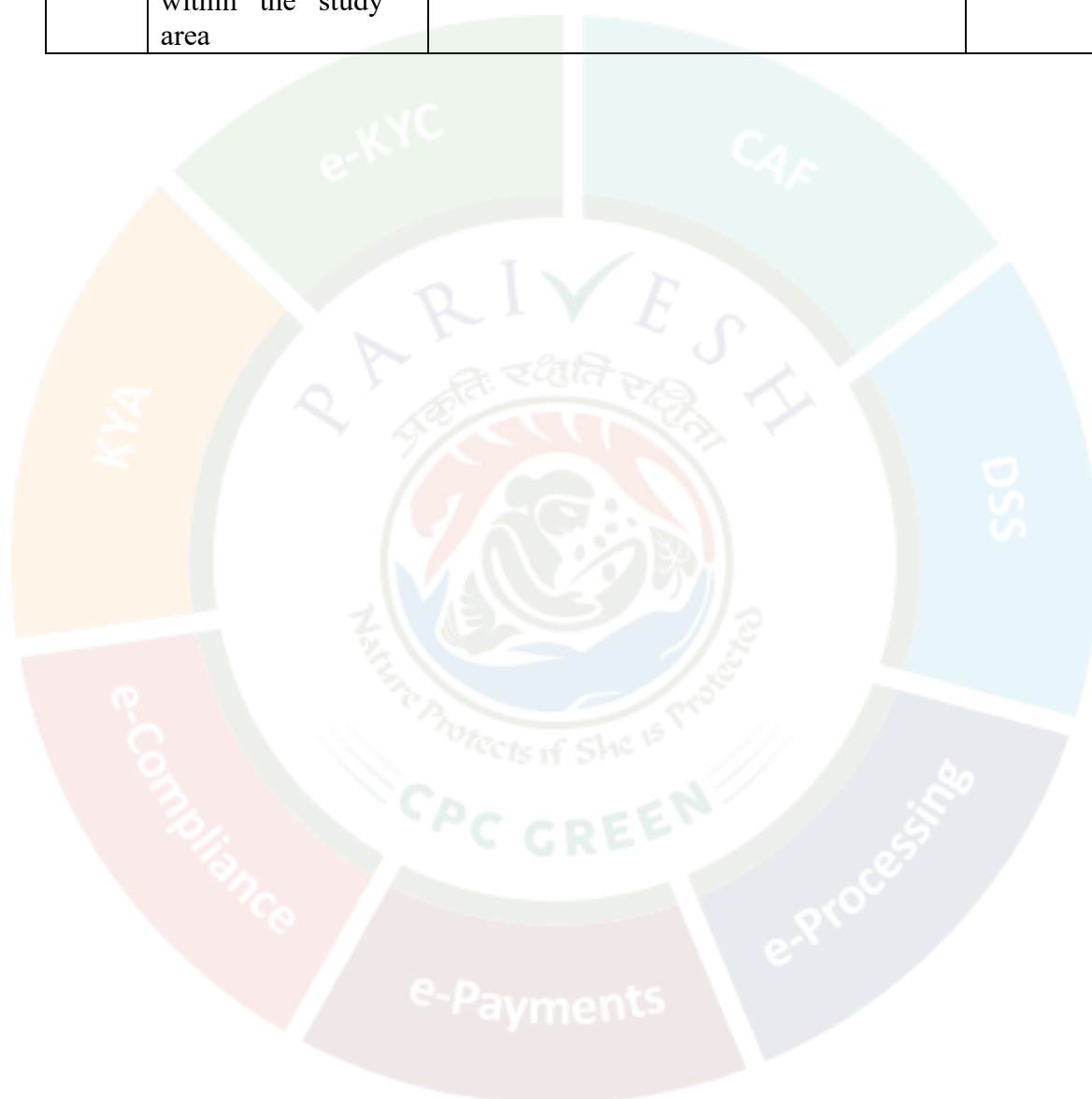
Not Applicable.



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

S. No.	Particulars	Details	Remarks																																				
1	Total Land	18.735 Ha (Out of total plot area of 18.735 Ha, 0.805 Ha land is CSIDC land, 0.891 Ha land is under possession of HPSL and the rest i.e., 17.039 Ha land is private purchased land)	Land Use: Industrial																																				
2	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	Land already acquired	No R&R																																				
3	Existence of habitation & involvement of R&R, if any.	Project Site: Nil Study Area: <table><tr><th>Habitation</th><th>Distance</th><th>Direction</th></tr><tr><td>Urla</td><td>0.3 Km</td><td>W</td></tr><tr><td>Birgaon</td><td>0.7 Km</td><td>E</td></tr><tr><td>Rawabhata</td><td>1.5 Km</td><td>E</td></tr></table>	Habitation	Distance	Direction	Urla	0.3 Km	W	Birgaon	0.7 Km	E	Rawabhata	1.5 Km	E	No R&R																								
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4	Latitude and Longitude of all corners of the project site	<table><tr><th>Point</th><th>Latitude</th><th>Longitude</th></tr><tr><td>P-1</td><td>21°19'21.74"N</td><td>81°37'10.44"E</td></tr><tr><td>P-2</td><td>21°19'8.28"N</td><td>81°37'7.97"E</td></tr><tr><td>P-3</td><td>21°18'52.85"N</td><td>81°36'59.78"E</td></tr><tr><td>P-4</td><td>21°18'54.52"N</td><td>81°36'54.80"E</td></tr><tr><td>P-5</td><td>21°19'6.75"N</td><td>81°36'59.25"E</td></tr><tr><td>P-6</td><td>21°19'7.42"N</td><td>81°36'56.01"E</td></tr><tr><td>P-7</td><td>21°19'14.88"N</td><td>81°36'57.40"E</td></tr><tr><td>P-8</td><td>21°19'14.73"N</td><td>81°37'0.71"E</td></tr><tr><td>P-9</td><td>21°19'16.53"N</td><td>81°37'0.98"E</td></tr><tr><td>P-10</td><td>21°19'16.54"N</td><td>81°37'4.38"E</td></tr><tr><td>P-11</td><td>21°19'22.19"N</td><td>81°37'5.73"E</td></tr></table>	Point	Latitude	Longitude	P-1	21°19'21.74"N	81°37'10.44"E	P-2	21°19'8.28"N	81°37'7.97"E	P-3	21°18'52.85"N	81°36'59.78"E	P-4	21°18'54.52"N	81°36'54.80"E	P-5	21°19'6.75"N	81°36'59.25"E	P-6	21°19'7.42"N	81°36'56.01"E	P-7	21°19'14.88"N	81°36'57.40"E	P-8	21°19'14.73"N	81°37'0.71"E	P-9	21°19'16.53"N	81°37'0.98"E	P-10	21°19'16.54"N	81°37'4.38"E	P-11	21°19'22.19"N	81°37'5.73"E	
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5	Elevation of the project site	271-276 m above mean sea level																																					
6	Involvement of Forest land if any.	Not Applicable																																					
7	Water body (Rivers, Lakes, Pond, Nala, Natural Drainage, Canal etc.) exists within the project site as well as study area.	Project Site: None Study Area: <table><tr><th>Water Body</th><th>Distance (Km)</th><th>Direction</th></tr><tr><td>Kharun River</td><td>3.1</td><td>NW</td></tr></table>	Water Body	Distance (Km)	Direction	Kharun River	3.1	NW																															
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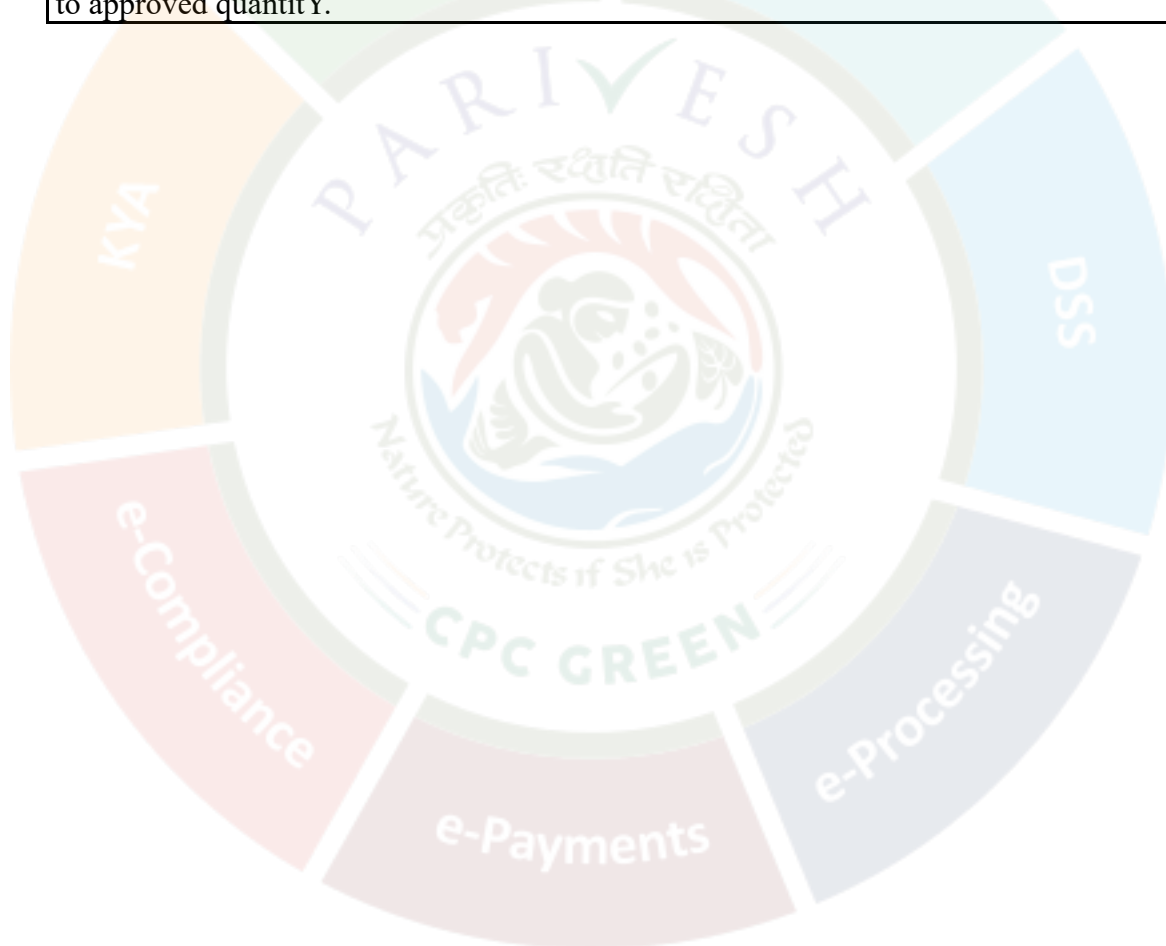
S. No.	Particulars	Details	Remarks
8	Existence of ESZ/ESA/national Park/Wildlife Sanctuary /biosphere reserve/ tiger reserve/ elephant reserve etc. if any within the study area	Nil	



Unit configuration and capacity

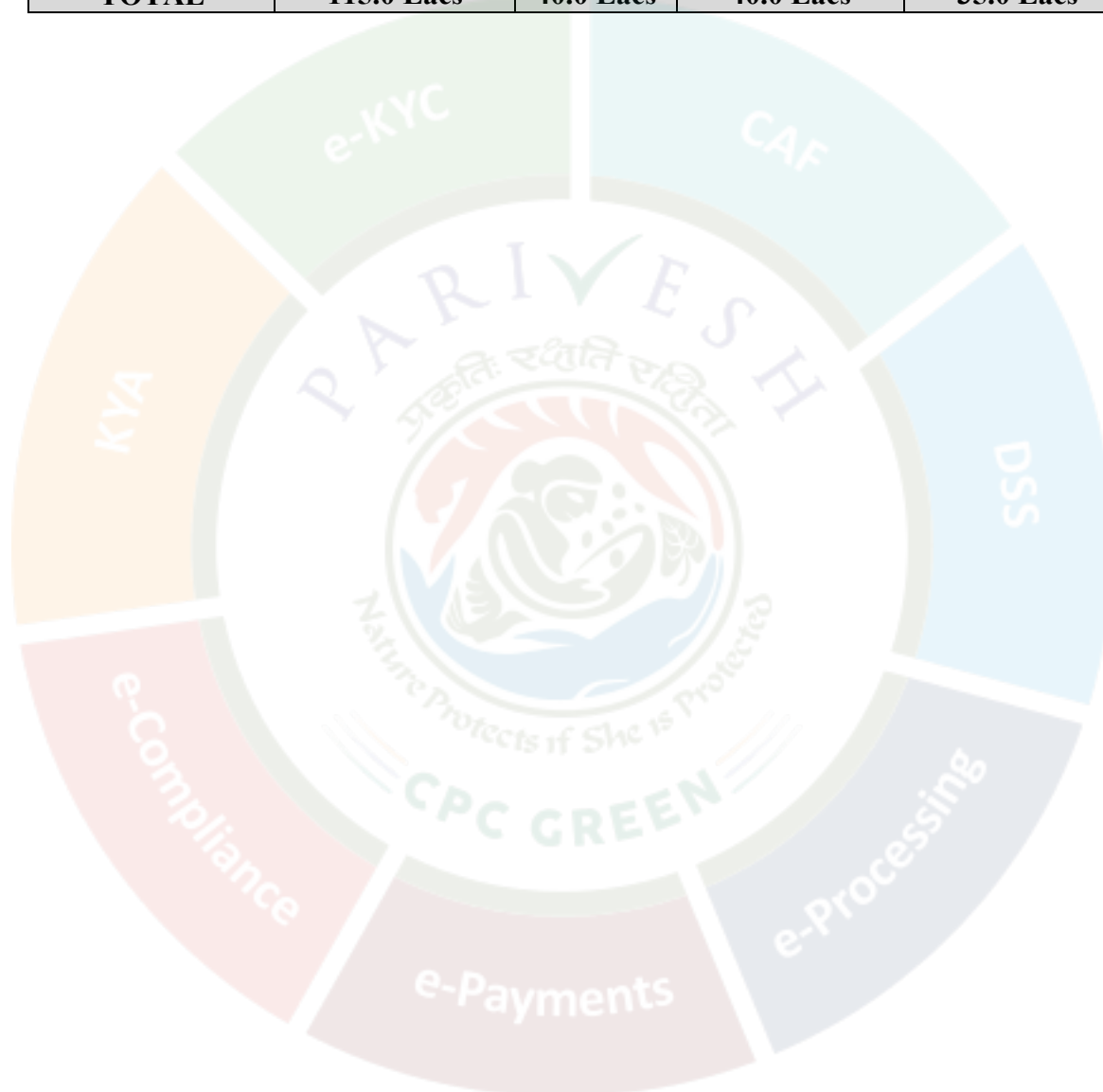
Particular	Existing	Phase I (1)	Additional in Phase II (2)	Total After Implementation of Phase I & II (1) + (2)	Remarks
Furnace Configuration					
SAF	2 x 11 MVA	2 x 11 MVA	1 x 11 MVA	3 x 11 MVA	In Phase I, only debottlenecking and change in raw material i.e., transition from domestically sourced Mn Ore to imported Mn Ore and incorporation of high-grade Mn Ore will lead to increased production capacity. Phase-I will be implemented within 6 months post grant of EC & consents from CECB. Under Phase II, there will be addition of 1x11 MVA SAF, modernization of existing 5 MVA SAF to 7.5 MVA SAF along with 2000 kW/3000 Kg to enhance the production. Phase-II is anticipated to reach completion within 1.5 to 2 years.
	1 x 7.5 MVA	1 x 7.5 MVA	-	1 x 7.5 MVA	
	1 x 5 MVA	1 x 5 MVA	Modification to 7.5 MVA	1 x 7.5 MVA	
Ferro Melt Induction Furnace	-	-	2000 KW/ 3000 Kg	2000 KW/ 3000 Kg	
Production Capacity					
Si-Mn	50,000 TPA or	66,000 TPA or	25,800 TPA or	91,800 TPA or	-
Fe-Mn		91,000 TPA or	36,000 TPA or	1,27,000 TPA or	-
Fe-Si	-	30,000 TPA or	11,600 TPA or	41,600 TPA or	-

Particular	Existing	Phase I (1)	Additional in Phase II (2)	Total After Implementation of Phase I & II (1) + (2)	Remarks
Pig Iron	or 70,000 TPA	96,000 TPA	37,500 TPA	1,33,500 TPA	-
Ferro Alloys (SiMn/FeMn) by Ferro-Melt Induction Furnace	-	-	9000 TPA	9000 TPA	-
Power Plant	20 MW	20 MW	0	20 MW	-
Note: All products will be manufactured in the combination as mentioned above subject to approved quantity.					



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

Activity	Total Amount	1 st Year	2 nd Year	3 rd Year
Tree Plantation	40.0 Lacs	20.0 Lacs	10.0 Lacs	10.0 Lacs
Healthcare	50.0 Lacs	10.0 Lacs	20.0 Lacs	20.0 Lacs
Infrastructure	25.0 Lacs	10.0 Lacs	10.0 Lacs	5.0 Lacs
TOTAL	115.0 Lacs	40.0 Lacs	40.0 Lacs	35.0 Lacs



Budget for EMP

Sr. No.	Component	Description	Capital cost (In Rs)	Operational and Maintenance/Recurring cost (In Rs/yr)
1	Air Pollution Control	Installation of new Bag filter, pollution control ID Fan, FD fan etc.	802.83	80.28
2	Water Pollution Control	Treatment /Soak Pit/STP	10	1
3	Environmental Monitoring	Air Quality/AAQMS	15	1.5
4	Green Belt	Plantation	15	1.5
5	Rainwater Harvesting System	Enhancing the existing Rain Water Harvesting System in our plant	15	1
Total			857.83 Lacs	85.28 Lacs/yr