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File No: IA-J-11011/97/2024-IA-II(Ind-I)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division



Date 01/08/2025

To,

M/s. ALOK FERRO ALLOYS LIMITED
Plot no. 458/1 and 459
Urla Industrial Area, Raipur, CHHATTISGARH, 492003
E-mail: tarun.kumar@hfal.in

Subject: Expansion of Ferro Alloys Production Unit by M/s Alok Ferro Alloy Limited, located at Plot no. 458/1 and 459, Urla Industrial Area, Raipur, Urla Industrial Area, Raipur, Chhattisgarh- Grant of EC-Reg.

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/CG/IND1/523112/2025 dated 11/06/2025 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.	EC25A1005CG5176087N
(ii) File No.	IA-J-11011/97/2024-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)
(vi) Sector	Industrial Projects - 1
(vii) Name of Project	Expansion of Ferro Alloys Production Unit
(viii) Name of Company/Organization	ALOK 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) attracts general condition as the project falls under CPA/SPA and appraised at Central Level.

4. The instant proposal is considered in 6th EAC held during 26th June, 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 6th EAC held during 26th June, 2025, inter-alia, deliberated the following:

i. The instant proposal is for expansion of Existing Ferro Alloy Plant” by “Forward integration using high-grade Mn ore and other raw material”. It is also proposed to manufacture Fe-Si (Ferrosilicon) and Pig Iron in the existing plant under proposed expansion. Additionally, 1500 KW / 2100 Kg Ferro Melt Induction Furnace for 6000 TPA capacity will be installed for melting of Si-Mn/Fe-Mn fines particles which is received from final product of SAF.

ii. The industry currently manufactures Ferro Alloys (Silico Manganese/Ferro Manganese) having a total capacity of 14,496 TPA. The unit also has an 8 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 by SPCB (CECB) vide Letter No. 8864/TS/CECB/2022 dated 04.03.2022 (valid up to 28.02.2027) and 7756/TS/CECB/2022 dated 31.01.2022 (valid up to 31.01.2027). The unit has three Submerged Arc Furnances (3 x 4.5 MVA) and an 8 MW Captive Power Plant.

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 EAC reviewed the compliance statement submitted by the project proponent regarding the applicability of criteria specified under 'Clause -9, Chapter 3 – Criteria For Establishment Of Industrial Plant' of the G.S.R 85(E) dated 30th January, 2025, MoEF&CC's Office Memorandums and Notifications to their proposal which include aspects such as land acquisition status / presence of streams or nullahs within the site / validity of baseline data / validity of the Certified Compliance Report / validity of the Public Hearing (PH), among other relevant factors. Upon examination, the Committee found the submission satisfactory for further appraisal of the proposal.

viii. The existing unit is spread over an area of 7.317 Ha. Out of total plot area of 7.317 Ha, 0.853 Ha land is CSIDC land and the rest i.e., 6.464 Ha land is private purchased land. The proposed expansion is planned within the existing premises only.

ix. The proposed project falls in the CPA/ SPA as notified by Central Pollution Control Board (CPCB). The EAC deliberated on the compliance of the conditions as per Ministry's guideline dated 24th October 2019 and found it

satisfactory.

x. Urla village is at a distance of 0.4 km towards West and Birgaon at 0.9 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.

xi. There are water bodies reported within the study area of the project site. The EAC opined that a robust and foolproof 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.

xii. After expansion, the freshwater requirement will remain same i.e., 600 KLD. Plant has valid approval from CSIDC and CGWA & agreement with Raipur Municipal Corporation for supply of 3 MLD Sewage Treated Water from 90 MLD STP situated at Village Nimora for Whole group of Companies, out of which 1 MLD water will be drawl for Alok Ferro Alloys Limited. The EAC opined that necessary approvals shall be obtained from Competent Authority.

xiii. The Committee has deliberated on the baseline data and incremental GLC due to the proposed project and noted that PM2.5 and PM10 values beyond the standards. The EAC opined that stringent measures shall be undertaken to minimise the levels of PM2.5 and PM10.

xiv. 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.

xv. The EAC opined that PP shall implement skill development programs (mentioned in Socio-Economic Development Action plan) in a way to align with relevant Government initiatives (like Mission LiFE, ODOP, GSDP etc.) to enhance employability and livelihood opportunities for local communities. These programs shall be designed in consultation with the concerned authorities, such as the District Skill Development Mission, State Government agencies, or other relevant institutions. With regard to the above, PP shall chalk out a detailed action plan and monitoring mechanism, which shall include details target beneficiaries, training modules, expected outcomes, and periodic progress reports shall be maintained and submitted to RO MoEFCC.

xvi. The PP submitted that approx. 7683.81 sqm i.e., 10.5% of the area has been developed as green area within the premises. Moreover, an additional 21974.4 sqm i.e., 30% of green area has been developed outside the premises at boundary wall of factory. Hence 40.5% of plantation has been already developed at the boundary wall of the factory. Approx. 1517 nos. of trees have been planted inside the plant premises and approx. 6130 Nos. of trees have been planted outside the premises. The EAC deliberated on the greenbelt plan and is of the opinion that greenbelt shall be maintained as per CPCB norms.

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 Committee noted that the Certified Compliance Report for Consent to Operate under Air and Water Acts was issued by the Chhattisgarh Environment Conservation Board vide letter dated 20.08.2024. It was observed that four conditions were reported as non-complied. The EAC advised the project proponent to take immediate corrective action to address the non-compliances and ensure that all statutory conditions under the Consent to Operate are fully complied with before proceeding further.

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

xx. 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.

xxi. 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.

xxii. 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 6th EAC held during 26th June, 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) that grant of EC is subject to the fulfilment of commitments made by the PP to secure all the permissions/ approvals/ consents from Central/ State Authorities, as may be required. The grant of EC does not create an obligation for authorities that handle issues related and relevant to construction and operation of the project under other independent procedures/ statutes, including the provisions stipulated in the Land Acquisition (R&R) Act, 2013. Accordingly, it is hereby decided to **grant Environment Clearance for instant proposal of M/s Alok Ferro Alloys Ltd.** 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
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Copy To

1. The Secretary, Govt..of Chhattisgarh, Department of Housing and Environment & Chairman, Chhattisgarh Environment Conservation Board, Room No- 0S/23, Mahanadi Bhavan, 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 - with a request to initiate action in line with the provisions of OM dated 14-01-2025**
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.
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.

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	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 areas shall be implemented as per the submitted plan.
1.5	Urla village is at a distance of 0.4 km towards West and Birgaon at 0.9 km in East of the project site

S. No	EC Conditions
	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 local. 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 reported within the study area of the project site. A robust and foolproof 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	After expansion, the freshwater requirement will remain same i.e., 600 KLD. Plant has valid approval from CSIDC and CGWA & agreement with Raipur Municipal Corporation for supply of 3 MLD Sewage Treated Water from 90 MLD STP situated at Village Nimora for Whole group of Companies, out of which 1 MLD water will be drawl for Alok Ferro Alloys Limited. PP shall obtain necessary permission from the Competent Authority.
1.8	PP shall undertake stringent measures to minimise the levels of PM2.5 and PM10
1.9	Three tier Green Belt shall be developed and maintained in atleast 33% of the project area, of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. PP shall also develop greenbelt in the form of shelter belt comprising of total of 6 rows of 2x2 m plantation with tall trees & broad leaves with thick canopy along with windshield inside the plant premises to act as green barrier for air pollution & noise levels towards sensitive areas nearby project site. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.
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 shall be strictly implemented, which is amounting to Rs.244.88Lakhs. The action plan shall also cover activities related to (i) promotion of environmental education and awareness, and (ii) sub-plan to address the vulnerable sections (such as the elderly, children, pregnant women, persons with disabilities, and the terminally ill). An institutional mechanism shall be developed for monitoring the implementation of the commitments made, which shall also manage and address public grievances. The progress of implementation of PH Action plan and grievance redressal shall be submitted regularly to the Regional Office of MoEF&CC.
1.12	The project proponent shall undertake village adoption programme, as committed, and prepare and implement the action plan to develop them into a model village, in consultation with the State Administration.
1.13	PP shall implement the skill development programs, proposed under Socio economic development Action plan, in alignment with relevant Government initiatives/ programmes (like Mission LiFE, ODOP, GSDP etc.) to enhance employability and livelihood opportunities for local communities.

S. No	EC Conditions
	These programs shall be designed in consultation with the concerned authorities, such as the District Skill Development Mission, State Government agencies, or other relevant institutions. A detailed action plan and monitoring mechanism (covering target beneficiaries, training modules, and expected outcomes) be prepared for the above. Periodic progress reports shall be maintained, and submitted to RO MoEFCC.
1.14	PP shall Install CO sensors with alarms at strategic locations in the Plant.
1.15	PP shall implement cleaner production and waste minimisation measures, and initiate coordinated action on activities of environmental awareness, education and conservation (covering plantation, solar energy, water harvesting, plastics, waste management, green skills etc.) through a dedicated institutional mechanism. The actions shall be monitored reported to RO MoEFCC on regular basis through the self compliance reporting mechanism.
1.16	The project proponent shall take immediate corrective action to address the non-compliances identified in the Certified Compliance Report of the Consent to Operate issued by the Chhattisgarh Environment Conservation Board. Full compliance with all conditions under the Air and Water Acts shall be ensured, and a compliance report shall be submitted to the concerned regulatory authority and kept on record for verification.
1.17	The project proponent shall conduct periodic soil health monitoring in and around the plant premises, including agricultural fields within a 5 km radius, to assess potential impacts from industrial operations. Soil samples shall be analyzed at least twice a year for parameters including pH, electrical conductivity, organic carbon, macronutrients (N, P, K), micronutrients (Zn, Fe, Mn, Cu), and heavy metals (As, F, Pb, Hg, Cd, Cr). The results shall be recorded, compiled and submitted to the State Pollution Control Board and Regional Office of MoEF&CC, and remedial measures shall be undertaken in case of any adverse trends.
1.18	PP shall ensure that the existing and proposed project/activities are compliant with the extant orders of Government of Chhattisgarh regarding ban on establishment of New Sponge Iron Plants, Coal based power plants in Urla, Siltara, Borjara areas in Raipur district, if applicable, and directives of State PCB in this regard shall be adhered to.
1.19	Necessary coordination shall be made with concerned SPCB (who is responsible for 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.

S. No	EC Conditions
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 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 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.

S. No	EC Conditions
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 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

S. No	EC Conditions
	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)

S. No	EC Conditions
	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.

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.

S. No	EC Conditions
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.

S. No	EC Conditions
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.

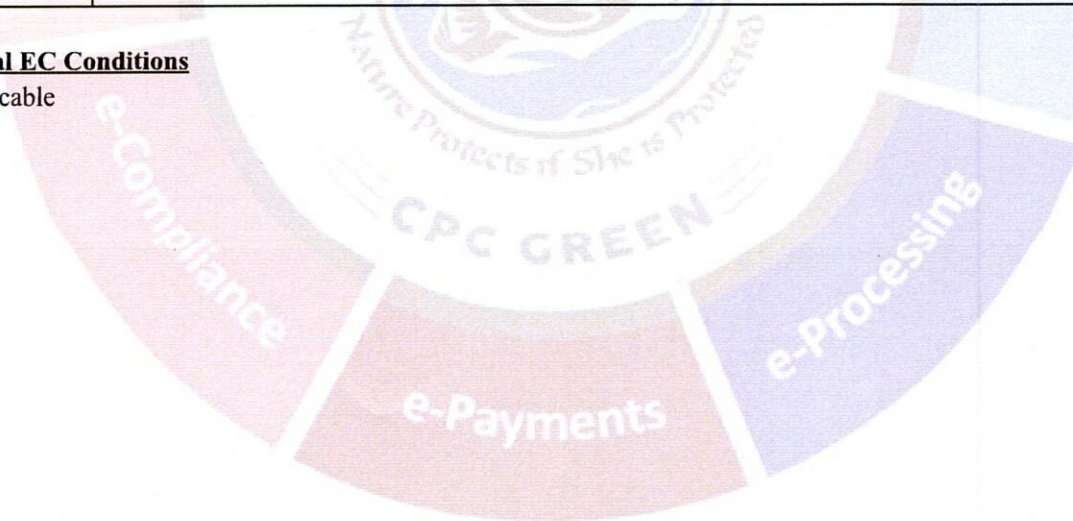
11. Miscellaneous

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.
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.

S. No	EC Conditions
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.
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

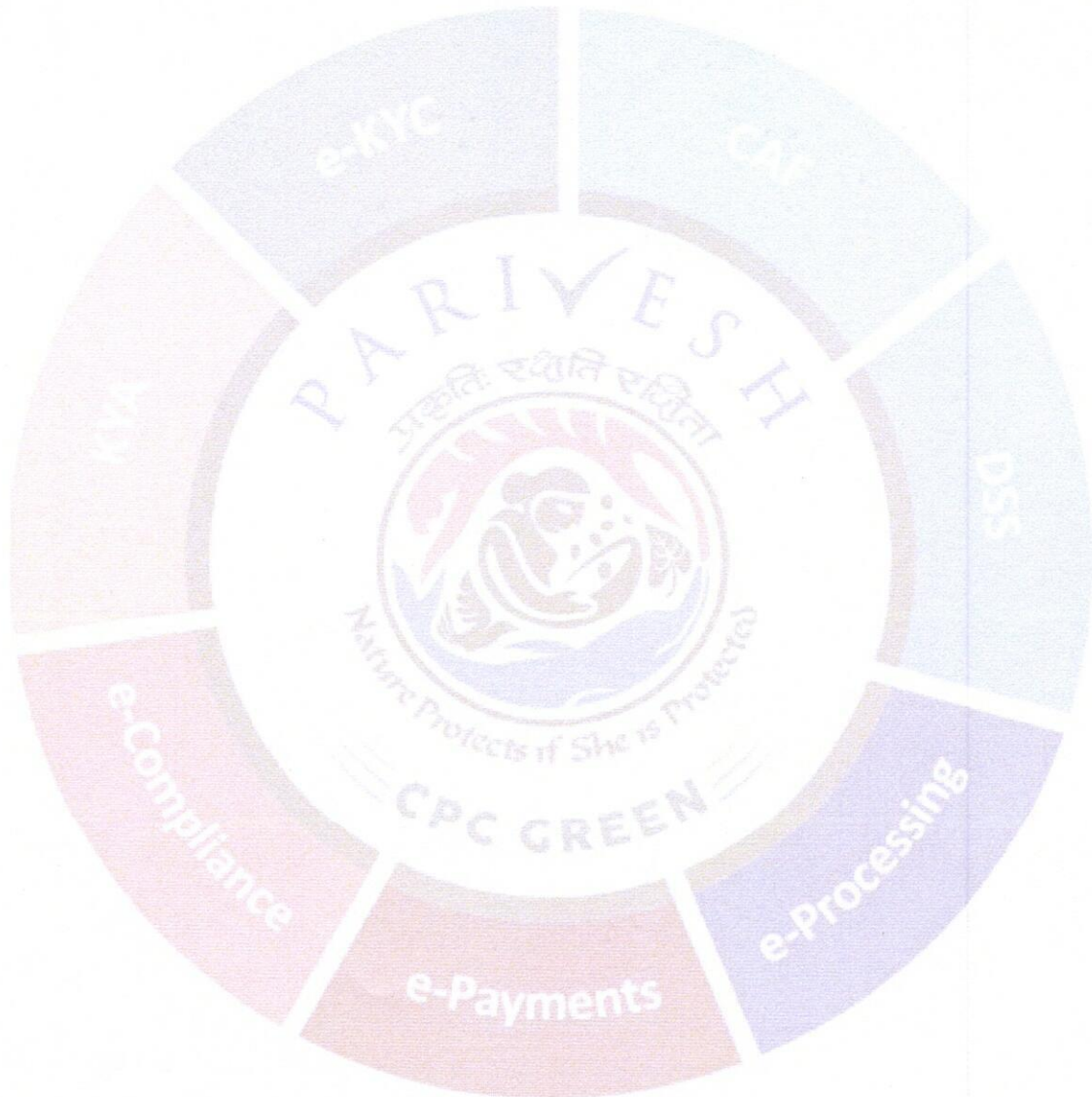
Not Applicable



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

S.No.	Particulars	Details	Remarks															
1	Total Land	7.317 ha	Land Use: Industrial; No Change															
2	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	The existing unit is spread over an area of 7.317 Ha. Out of total plot area of 7.317 Ha, 0.853 Ha land is CSIDC land and the rest i.e., 6.464 Ha land is private purchased land. The proposed expansion is planned within the existing premises only.																
3	Existence of habitation & involvement of R&R, if any.	<p>Project Site: Not Applicable (The proposed project is planned within the existing unit which is spread over an area of 7.317 Ha. Land is under possession of AFAL)</p> <p>Study Area:</p> <table border="1"> <thead> <tr> <th>Habitation</th> <th>Distance</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Urla</td> <td>0.4 Km</td> <td>W</td> </tr> <tr> <td>Birgaon</td> <td>0.9 Km</td> <td>E</td> </tr> </tbody> </table>	Habitation	Distance	Direction	Urla	0.4 Km	W	Birgaon	0.9 Km	E							
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5	Elevation of the project site	300-307 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	<p>Project Site: None</p> <p>Study Area:</p> <table border="1"> <thead> <tr> <th>Water Body</th> <th>Distance (Km)</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Kharun River</td> <td>3.1 Km</td> <td>NW</td> </tr> </tbody> </table>	Water Body	Distance (Km)	Direction	Kharun River	3.1 Km	NW										
Water Body	Distance (Km)	Direction																
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8	Existence of ESZ/ESA/national Park/Wildlife Sanctuary	None																

S.No.	Particulars	Details	Remarks
	/biosphere reserve/ tiger reserve/ elephant reserve etc. if any within the study area		



Unit configuration and capacity

Particular	Existing	After Expansion
Furnace Configuration		
SAF	3 x 4.5 MVA	3 x 4.5 MVA
Ferro Melt Induction Furnace	-	1500 KW/2100 Kg
Production Capacity		
Si-Mn	14,496 TPA	19,000 TPA or
Fe-Mn		28,000 TPA or
Fe-Si	-	9,000 TPA or
Pig Iron	-	28,500 TPA
Ferro Alloys (SiMn/FeMn) by Ferro-Melt Induction Furnace	-	6000 TPA
Power Plant	8 MW	8 MW



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

S.No.	Physical Activity and Action Plan		Year of Implementation (Budget in INR Lakhs)			Total Expenditure (in Lakhs)
	Name of Activity	Physical Targets	1 st	2 nd	3 rd	
1.	Employment Generation	The company has employed approx. 85% of the staff locally and aims to increase the same. The existing manpower of the project is 213 (Permanent: 153 & Temporary: 60) and the same is enough for smooth operation after expansion.	-	-	-	-
2.	Compliance to Minimum Wage Compliance	The industry follows Minimum Wages Act, 1984 (revised on 25 th September, 2024) i.e., Rs. 421/day for unskilled labour, Rs. 446/day for semi-skilled staff, Rs. 476/day for skilled employee and Rs. 506/day for highly skilled employee.	-	-	-	-
3.	Compliance to Air Pollution Prevention and Control Act 1981	In order to comply with Air Pollution Prevention and Control Act 1981, the industry has installed high-efficiency bag filters and gas cleaning facilities for air pollution control.	10	10	10	30

S.No.	Physical Activity and Action Plan		Year of Implementation (Budget in INR Lakhs)			Total Expenditure (in Lakhs)
	Name of Activity	Physical Targets	1 st	2 nd	3 rd	
		<p>A dense greenbelt has been developed all around site with approx. 7683.81 sqm i.e. 10.5% of the area is developed within the plant premises and 21974.4 sqm i.e., approx. 30 % of the total plot area developed outside the plant. Monthly Air pollution monitoring is done by an external agency and all the emissions are within norms.</p> <p>Online Continuous Emission Monitoring system (OCEMS) has already been installed to Submerged Arc furnace and Boiler. Additionally, regular work zone monitoring is being conducted to monitor airborne pollutants as per OSHAS guidelines. To ensure health & safety of professionals, industry conducts periodic medical examination.</p>				
4.	Health Checkup	The checkup includes chest X-Ray, Eye checkup, Blood Pressure & pathological tests such as CBC (blood sugar,	0.6	0.7	0.8	2.1

S.No.	Physical Activity and Action Plan		Year of Implementation (Budget in INR Lakhs)			Total Expenditure (in Lakhs)
	Name of Activity	Physical Targets	1 st	2 nd	3 rd	
		hemoglobin, platelets/RBS/WBC), urine test, etc.				
5.	Occupational Health Centre	The company has a full-fledged Occupational Health Centre and ambulance service. A qualified Doctor along with other paramedical staff has been deputed whose clinic is inside/near the industrial Area and his services are available round the clock.	24	26	29	79
6.	Health and Safety Management	The company ensures employee safety by providing safety kits in the existing unit.	12.03	13.25	14.50	39.78
7.	Water Management	The effluent generated will be treated within the plant, and the treated water will be reused for gardening and other purposes. No wastewater will be discharged outside the premises, ensuring the plant operates as a zero-liquid discharge (ZLD) project.	1	1	1	3 L
8.	Anti-Corruption & Corporate	The industry believes in anti-corruption and is	5	5.50	6.0	16.5

S.No.	Physical Activity and Action Plan		Year of Implementation (Budget in INR Lakhs)			Total Expenditure (in Lakhs)
	Name of Activity	Physical Targets	1 st	2 nd	3 rd	
	Social Responsibility	<p>not involved in related activities. HIRA Group aspires to address social concerns and work to benefit the local communities. As a constructive partner in the communities in which the industry operates, the industry has been taking concrete steps for social responsibility, thereby building value for their shareholders and customers. In the past four decades, the company has supported innumerable social and community initiatives in India. Besides focusing primarily on the welfare of economically and socially deprived sections of society, the industry is also aiming at developing techno-economically viable and environment-friendly products & services for the benefit of all. The keen pursuit of activities in the field of service has led to</p>				

S.No.	Physical Activity and Action Plan		Year of Implementation (Budget in INR Lakhs)			Total Expenditure (in Lakhs)
	Name of Activity	Physical Targets	1 st	2 nd	3 rd	
		the formation of Hira Foundation as a non-profit trust to protect, preserve and promote the needful. In the past few years, the industry has contributed approx. INR 39 Lakhs for CSR in last three financial years.				
9.	Fire Brigade Arrangement	While a fire brigade has not been purchased, the company already implement alternative measures to address fire safety concerns. A display board with emergency contact numbers for fire-related incidents will be installed near the main road. Additionally, fire extinguishers will be strategically placed near the main road to provide immediate support in case of fire emergencies.	15	16.50	18	49.50
10.	Green Belt Development	Green belt development will be done in Birgaon and Urkura Villages under CER.	9	8	8	25
Total Expenditure			76.63	80.95	87.3	244.88

Budget for EMP

Sr. No.	Component	Description	Capital cost (In Lacs)	Operational and Maintenance/Recurring cost (In Lacs/yr)
1	Air Pollution Control System	Installation of new Bag filter for Ferro Melt Induction Furnace	100	10
2	Water Pollution Control	Sewage treatment Plant	10	1.0
3	Environmental Monitoring	Air Quality/online AAQMS	15	1.5
4	Green Belt	Plantation	10	1.0
5	Rainwater Harvesting System	Enhancing the existing Rain Water Harvesting System in our plant	10	1.0
Total			145	14.5

Signature validDigitally Signed by : Shri Dinesh Runiwal
Member Secretary, MoEFCC (EC)

Date: 01/08/2025