



सत्यमेव जयते

**File No: IA-J-11011/125/2010-IA-II(IND-I)**  
**Government of India**  
**Ministry of Environment, Forest and Climate Change**  
**IA Division**

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Date **10/08/2025**



To,

M/s. JINDAL SAW LIMITED  
Jindal Saw Limited, Haresamudram, Bommanhal  
ANANTAPUR, ANDHRA PRADESH, , 515871  
Email: ap01.hse@jindalsaw.com

**Subject:** Modernization-cum-expansion of existing Production of Pig Iron /Hot Metal from 0.25 to 0.45 MTPA, DI Pipe from 0.19 to 0.45 MTPA, DI Pipe Fitting 30,000 TPA, Sinter from 0.2988 to 0.55 MTPA & CPP from 26.43 to 60 MW by installation of a new CPP of 30MW capacity by M/s Jindal Saw Limited, located at Village - Haresamudram, Mandal - Bommanahal, District Ananthapur, Andhra Pradesh – Grant of EC-Reg.

**Sir/Madam,**

This is in reference to your application submitted to MoEF&CC vide proposal number IA/AP/IND1/521190/2025 dated 06/05/2025 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 :

<b>(i) EC Identification No.</b>	EC25A1005AP5426507N
<b>(ii) File No.</b>	IA-J-11011/125/2010-IA-II(IND-I)
<b>(iii) Clearance Type</b>	Fresh EC
<b>(iv) Category</b>	A
<b>(v) Project/Activity Included Schedule No.</b>	3(a) Metallurgical Industries (ferrous and non ferrous),1(d) Thermal Power Plants
<b>(vi) Sector</b>	Industrial Projects - 1 Modernisation-cum-expansion of existing Production of Pig Iron / Hot Metal from 0.25 to 0.45 MTPA, DI Pipe from 0.19 to 0.45 MTPA, DI Pipe Fitting 30,000 TPA, Sinter from 0.2988 to 0.55 MTPA & CPP from 26.43 to 60 MW by installation of a new CPP of 30MW capacity at Village - Haresamudram, Mandal - Bommanahal, District Ananthapur, Andhra Pradesh
<b>(vii) Name of Project</b>	
<b>(viii) Name of Company/Organization</b>	JINDAL SAW LIMITED

<b>(ix) Location of Project (District, State)</b>	ANANTAPUR, ANDHRA PRADESH
<b>(x) Issuing Authority</b>	MoEF&CC
<b>(xi) Applicability of General Conditions as per EIA Notification, 2006</b>	Yes

3. The proposed project activity is listed at schedule no. 3(a) Metallurgical industries (ferrous & non-ferrous) and 1(d) Thermal Power Plants, under Category “A” of the schedule of the EIA Notification, 2006 and attracts general conditions due to the project site being within 1.4 km of Karnataka State Boundary and therefore being appraised at Central Level.

4. The proposal was considered during 4th EAC (Industry-1) Meeting held on 27th – 28th May, 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 minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed at <https://parivesh.nic.in>.

5. The details of the proposal are as per the EIA/EMP report submitted by the proponent. The salient features of the proposal as presented during the above-mentioned meetings of EAC (Industry 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 4th EAC (Industry-1) Meeting held on 27th – 28th May, 2025, inter-alia, deliberated the following:

i. The instant proposal is for Modernisation-cum-expansion of existing Pig Iron / Hot Metal Plant (Blast Furnace) production from 2,50,000 TPA to 4,50,000 TPA, Ductile Iron Pipe Plant production from 1,90,000 TPA to 4,50,000 TPA, Sinter Plant production from 2,98,800 TPA to 5,50,000 TPA, New Sand Reclamation Plant production of 24,000 TPA and Captive Power Plant from 30 MW to 60 MW by installation of New CPP of 30 MW Capacity. Further, based on the suggestions of Compliance & Monitoring Division of MoEF&CC in its letter dated 05.05.2025, PP has additionally requested for the reconciling the existing ECs with implemented facilities and EC conditions.

ii. The erstwhile Project Proponent, M/s Sathavahana Ispat Ltd. (SIL) project, was accorded Consent for Establishment vide letter no. 13026 / PCB / NOC / AEE-VI / 91-5070; dated 21.12.1991 for Blast Furnace for 375 TPD Pig Iron production, which was prior to EIA Notification 1994. SIL project underwent expansion CTE letters dated 28.04.2003, 28.06.2003, and 18.02.2005. The project was accorded Environmental Clearance (EC) vide F. No. J-II011/125/2010-IA-II (I) dated 02.06.2011 for Pig Iron Plant (Blast Furnace) : 2,50,000 TPA (Existing); existing CPP (3 MW + 8.43 MW) on imported coal & BF Gas; CPP : 15 MW; Ductile Iron Plant : 1,90,000 TPA (New) & Sinter Plant : 2,98,000 TPA (New) and amendment in EC vide F. No. J-II011/125/2010-IA-II (I) dated 13.03.2014 for Pig Iron Plant (Blast Furnace): 2,50,000 TPA; CPP 30 MW\* (Imported Coal Based & BF Gas); Ductile Iron Plant : 1,90,000 TPA; Sinter Plant: 2,98,000 TPA; DI Pipe Fitting Plant : 30,000 TPA (Not Implemented). The project was under shut down from April 2017 to October 2022 due to statutory orders and financial crisis, and was referred to the National Company Law Tribunal (NCLT), Hyderabad Bench. NCLT awarded the project ownership to M/s Jindal Saw Limited (JSAW) vide NCLT Case No. / Order No. IA (IBC) 1198 & 1475/2022 in CP(IB) No. 17/9/HDB/2020 (U/S 9 of IBC, 2016) dated 31.03.2023. JSAW got the CTO (CFO) for the existing unit, renewed from APPCB vide Consent Order No: 1857856/APPCB/KNL/ATP/HO/CFO&HWA/2022 dated on 17.10.2022 valid up to 30.09.2026 for Pig Iron Plant: 2,50,000 TPA; CPP 8.43 MW (Standby); CPP 30 MW (Power generation not to exceed 26.43 MW & on imported coal); Sinter Plant: 2,98,800 TPA; Captive Power Plant: 30 MW\* (Imported Coal based) & DI Pipes: 1,90,000 TPA. JSAW started the project operation from 01.11.2022 with existing facilities as per EC dated 02.06.2011 and EC amendment dated 13.03.2014. Meanwhile, JSAW got the project EC 2011 (amendment 2014) transferred from MoEF&CC in the name of Jindal Saw Limited (JSAW), vide MoEF&CC File No. F. No. J-II011/125/2010-IA-II (I) dated 27.09.2023. Consent to Operate for the existing unit was accorded by Andhra Pradesh State pollution Control Board Order No.1857856 / APPCB / KNL / ATP / HO / CTO & HWA/2023 dated 20.12.2023 valid upto 30.09.2026.

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 proposed Modernisation-cum-Expansion project spans a total area of 81.836 hectares (202.216 acres) in Haresamudram Village, Bommanahal Mandal, Ananthpur District, Andhra Pradesh. This includes 57.847 ha (142.94 acres) already under the possession of M/s JSAW, covering specific survey plots and housing an operational Pig Iron, Hot Metal, and Ductile Iron (DI) Pipe manufacturing plant acquired through NCLT Order No. IA (IBC) 1198 & 1475/2022 in CP(IB) No. 17/9/HDB/2020 dated 31.03.2023. Additionally, 23.989 ha (59.276 acres) of adjoining agricultural/fallow land, some with housing facilities, is also acquired, covering detailed cadastral plots. The north-west corner of the proposed site includes a village road that intersects the housing area; this public road will be maintained for use by both residents and the project. The EAC opined that PP shall complete the conversion of total land for industrial purpose.

ix. The housing facility of 2.499 ha in the NW direction of existing project, proposed to be acquired was for the project man-power built by erstwhile project proponent but the same was not transferred to JSAW through NCLT process. The same is now being envisaged to be acquired for project people. The built-up houses will not be dismantled but will be used by the project employees.

x. Kuruvalli village is at a distance of 1.5 km towards ENE from 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. PP has reported that the proposed project site features two minor drainage channels: one second-order (ephemeral) stream enters from outside the site, runs parallel to the plant boundary, and exits the site, while another first-order stream originates within the site and exits at the southeast corner. These drainage channels traverse the designated greenbelt area of the project. The external ephemeral drain will be maintained with a paved channel and flanked by greenbelt on both sides to ensure unimpeded flow. The internal drainage will be integrated into the plant's drainage network. The site is not within the floodplain of the Hagari River and is located 4.02 km away from it, with a site elevation of 15.86 m above the riverbed, significantly higher than the 2022 high flood level of 5.3 m. A No Objection Certificate (NOC) from the Water Resources Department (dated 09.09.2024) confirms this, along with the absence of major water bodies or perennial streams within 100 meters. It also stipulates that the seasonal drain flowing through the southern boundary and greenbelt area must remain undisturbed. The EAC opined that appropriate measures shall be undertaken in consultation with the Water Resource Department for mitigating any adverse impact on the aforementioned water bodies.

xii. There are several 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.

xiii. The water requirement for the total project (including existing plus proposed project) is estimated as 7000 m<sup>3</sup>/day, which will be sourced from Hagari River. The EAC reviewed the water requirement details submitted by the project proponent and emphasized that the necessary permissions must be obtained from the Competent Authority.

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

xv. 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.

xvi. 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.

xvii. The PP submitted that existing green belt has been developed in 12.70 ha area which is about 21.95 % of the total project area of 57.847 ha with total sapling of 43,000. The proposed green belt will cover an additional area of 14.30 hectares, in addition to the existing 12.70 hectares, resulting in a total green belt area of 27.05 hectares. The total additional plantation will be 24,000. The total greenbelt will increase to 33.05% of 81.836 hectares after the proposed expansion. The total cost allocated for the green belt plantation is Rs. 300 lakhs. The EAC deliberated on the greenbelt plan and is of the opinion that greenbelt shall be developed in a period of 1 year.

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

**xix. The EAC deliberated on the certified compliance report issued by the Regional Office, the Action Taken Report (ATR) submitted by the project proponent, and the letter from the Compliance & Monitoring Division (CMD) of MoEF&CC dated 05.05.2025. The EAC noted the CMD in its letter has concluded that the project had remained non-operational since 2017 and that the current project proponent, M/s Jindal Saw Limited, had acquired the project only in 2023. In view of this, the CMD acknowledged that the PP had limited time to comply with the Environmental Clearance conditions of all previous ECs granted since 2011, for which the current PP was not originally responsible. The CMD advised the EAC to consider this background while appraising the current proposal for expansion or amendment, and to ensure a time-bound action plan supported by an affidavit from the PP. In this regard, the PP submitted a detailed time-bound action plan for addressing the non-complied conditions of the past ECs, which was duly deliberated upon by the EAC. The Committee found the action plan to be comprehensive and satisfactory. Furthermore, the EAC also took cognizance of the CMD's suggestion regarding reconciliation of the conditions prescribed under various ECs issued for the project. Based on the documents submitted by the PP and subsequent deliberations, the EAC found the request for reconciliation of EC conditions reasonable. Accordingly, the proposal was appraised considering the reconciled status of EC conditions, and the EAC recommended proceeding with the proposal subject to implementation of the submitted time-bound action plan and submission of an undertaking in the form of an affidavit by the PP.**

xx. The EAC also deliberated on the written submission of project proponent, and noted that the PP has requested for reconciliation of all previous ECs and its conditions, in line with the suggestions of the IA-CMD. The relevant information of the same is also submitted by the PP. The EAC considered the submissions of the PP, and found it satisfactory.

xxi. 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.

xxii. 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.

xxiii. 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.

#### **Recommendations of the Committee:**

8. In view of the foregoing and after detailed deliberations, the committee **recommended** the instant proposal for grant of Environment Clearance under the provisions of EIA Notification, 2006 and reconciled information of all earlier EC(s). Accordingly, the instant EC recommendation shall supersede all other previous ECs subject to the stipulation of specific conditions and general conditions based on project specific requirements.

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. Jindal Saw Limited** under the provisions of EIA Notification, 2006 subject to the specific conditions and general conditions (**Annexure-I**). **Further, the instant EC shall supersede all other previous ECs.**

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 Principal Secretary, Environment and Forests Department Secretariat, Government of Andhra Pradesh, B Block, Secretariat, Hyderabad-500004
2. The Director General of Forest, Ministry of Environment, Forest and Climate Change, New Delhi.
3. The Principal Chief Conservator of Forests, Government of Andhra Pradesh, Aranya Bhawan, Hyderabad-500 004
4. Inspector General of Forests, Integrated Regional Office, Ministry of Environment, Forest and Climate Change, Vijayawada Green House Complex, Vijayawada, Andhra Pradesh 520010
5. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi - 110032
- 6. The Member Secretary, Andhra Pradesh Pollution Control Board, D.No. 33-26-14 D/2, Near Sunrise Hospital, Pushpa Hotel Centre, Chalamalavari, Street, Kasturibaipet, Vijayawada 520010 - with a request to initiate action in line with the provisions of OM dated 14-01-2025**
7. Member Secretary, Central Ground Water Authority, A-2, W3, Curzon Road Barracks, K.G. Marg, New Delhi-110001.
8. Chief Wildlife Warden, Govt. of Karnataka, Aranya Bhawan, 18th Cross, Malleswaram, Bangalore-560003
9. District Collector, Anantapur District, Andhra Pradesh
10. Guard File/ Monitoring File/ Website/ Record File/ Parivesh Portal.

### **Annexure 1**

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

#### **1. Specific**

<b>S. No</b>	<b>EC Conditions</b>
<b>1.1</b>	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.
<b>1.2</b>	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.
<b>1.3</b>	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.
<b>1.4</b>	PP shall complete the conversion of total land for industrial purpose.

S. No	EC Conditions
1.5	The project proponent shall ensure that the 2.499 ha housing facility located in the northwest direction of the existing project, originally constructed by the erstwhile project proponent and not transferred to M/s Jindal Saw Ltd. through the NCLT process, shall be acquired through appropriate legal means for use by project personnel. The project proponent shall ensure compliance with all applicable local planning, environmental, and legal requirements for such acquisition and use.
1.6	Kuruvalli village is at a distance of 1.5 km towards ENE from 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, including development of greenbelt for school within 1km, in consultation with school authorities. 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.
1.7	The project proponent shall ensure that the existing natural drainage channels within the project site are maintained without disturbance, as per the NOC dated 09.09.2024 from the Water Resources Department. The seasonal drain along the southern boundary shall remain undisturbed, with proper paving and greenbelt on both sides, and the internal drainage shall be integrated with the plant drainage system. Measures for managing drainage shall be undertaken in consultation with the Water Resources Department.
1.8	There are several water bodies reported within the study area of the project site s. 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.
1.9	The water requirement for the total project (including existing plus proposed project) is estimated as 7000 m <sup>3</sup> /day, shall be sourced from Hagari River. PP shall obtain necessary permission from the Competent Authority.
1.10	Three tier Green Belt shall be developed and maintained in atleast 33% of the project area, in a period of 1 year, of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. PP shall 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.
1.11	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 ( <a href="https://merilife.nic.in">https://merilife.nic.in</a> )
1.12	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. 19.19 Crores shall be strictly implemented. 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

S. No	EC Conditions
	Regional Office of MoEF&CC.
1.13	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.
1.14	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. 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.
1.15	PP shall Install CO sensors with alarms at strategic locations in the Plant.
1.16	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.
1.17	The other observations made in the certified compliance report of the Regional Office, the Action Taken Report (ATR), and the letter from the Compliance & Monitoring Division (CMD) of MoEF&CC, shall be strictly complied with by the project proponent.
1.18	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 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.
1.19	PP shall install a STP in Mandal Bommanahal in next 2 year by 2027 as part of socio-economic development activity of nearby villages.
1.20	All the blast furnace (BF) slag shall be granulated and provided to cement manufacturers for further utilization. Accretions shall also be properly utilized.
1.21	Proper utilization of fly ash should be ensured as per “Fly Ash Notification” as amended from time to time.
1.22	Prior permission and recommendations of the state forest department regarding the impact of the proposed plant on Mincheri R.F shall be obtained and recommendation if any should be implemented in a time bound manner.
1.23	All the recommendations made in the charter of corporate responsibility for environmental protection (CREP) for steel plants should be implemented.

S. No	EC Conditions
1.24	The company shall provide housing for construction labour within the site with all the necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health cares, crèche etc., the housing may be in the temporary structure to removed after the completion of the project.
1.25	In case source of coal supply is to be changed at a later stage (now imported coal from Indonesia) the project proponent shall intimated the Ministry well in advance along with necessary requisite documents for its concurrence for allowing the change. Further, the project proponent shall also explore the possibility of using indigenous coal for the project processes.
1.26	The project proponent shall ensure continued monitoring of the chemical composition of coal, particularly with respect to heavy metals and radioactivity, in consultation with a reputed institute, especially in the event of any change in the source of coal. Preference shall be given to indigenous coal, and any such change in coal source shall be preceded by a fresh assessment of its suitability, including radioactivity levels. Fly ash shall be supplied for utilization, including in brick manufacturing, only after confirming compliance with relevant standards and safety criteria.
1.27	<b>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.</b>

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

**1. Statutory Compliance**

S. No	EC Conditions
1.1	The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.
1.2	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.

**2. Air Quality Monitoring And Preservation**

S. No	EC Conditions
2.1	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 04 Nos. Continuous Ambient Air Quality Station (CAAQMS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL

S. No	EC Conditions
	accredited laboratories.
2.2	The project proponent shall carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.
2.3	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
2.4	Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions.
2.5	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
2.6	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
2.7	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
2.8	Ensure covered transportation and conveying of raw material to prevent spillage and dust generation. The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
2.9	The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.
2.10	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
2.11	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.
2.12	Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.
2.13	The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.
2.14	Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.

S. No	EC Conditions
2.15	Water Sprinklers/Water mist system shall be installed near raw material yards, operational units and other strategic locations to control fugitive emissions from the plant.
2.16	The particulate matter emissions from the process stacks shall be less than 30 mg/Nm <sup>3</sup> and measures shall be undertaken as per the submitted action plan. Efficient Air monitoring equipment shall be installed.
2.17	Following additional arrangements to control fugitive dust shall be provided: a. Fog / Mist Sprinklers at all on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas. b. Proper covered vehicle shall be used while transport of materials. c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.
2.18	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.
2.19	The coal dust should be monitored at coal unloading, crushing, furnace areas and should be within 2 mg/m <sup>3</sup> , respirable dust fraction containing less than 5% quartz as per Indian Factories Act, 1948.

### 3. Air Quality Monitoring And Preservation In Case Of Di Pipe

S. No	EC Conditions
3.1	Ductile Iron (DI) plant shall have the following provisions: a. Bag filter for Zn coating and Mg converter area. b. Wet scrubbers in paint and bitumen coating area. c. Bag Filter in Cement lining area. d. PTFE dipped bags shall be used in the plant. e. PM emissions from BF in Zinc coating area shall be 5 mg/Nm <sup>3</sup> . f. ETP with recycling facility shall be included.

### 4. Air Quality Monitoring And Preservation In Case Of Bof

S. No	EC Conditions
4.1	Basic Oxygen Furnace (BOF) gas shall be cleaned dry
4.2	Online stack monitoring system for IF and RHF shall be installed and monitoring report shall be submitted to the concerned Regional Office of the MoEF&CC along with the six monthly compliance report.
4.3	Low NO <sub>x</sub> Burners will be installed at Reheating Furnace for control of Gaseous emissions generated while using PNG.

### 5. Water Quality Monitoring And Preservation

S. No	EC Conditions
5.1	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

S. No	EC Conditions
	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.
5.2	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.
5.3	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.
5.4	Water meters shall be provided at the inlet to all unit processes in the steel plants.
5.5	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.
5.6	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.
5.7	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.
5.8	Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.
5.9	Air Cooled condensers shall be used in the captive power plant.

## 6. Noise Monitoring And Prevention

S. No	EC Conditions
6.1	Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and amendments thereof, and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
6.2	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.
6.3	PP shall identify extreme hot areas through heat stress survey as well as noise monitoring within process plants to ensure that workers not exposed above 90 dBA levels as per Factories Act, 1948.

## 7. Energy Conservation Measures

S. No	EC Conditions
7.1	Use torpedo ladle for hot metal transfer as far as possible. If ladles not used, provide covers for open top ladles.
7.2	Restrict Gas flaring to < 1%.
7.3	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;
7.4	Provide LED lights in their offices and residential areas.

#### 8. Energy Conservation Measures In Case Of Reheating Furnace

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

#### 9. Energy Conservation Measures In Case Of Blast Furnace

S. No	EC Conditions
9.1	Blast Furnaces shall be equipped with Top Recovery Turbine, dry gas cleaning plant, stove waste heat recovery, cast house and stock house ventilation system and slag granulation facility.

#### 10. Waste Management

S. No	EC Conditions
10.1	Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil.
10.2	Kitchen waste shall be composted or converted to biogas for further use.
10.3	100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.
10.4	The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at <a href="https://cpcb.nic.in/technical-guidelines-3/">https://cpcb.nic.in/technical-guidelines-3/</a> . All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure

S. No	EC Conditions
	the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents.
10.5	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.
10.6	Solid waste utilization: a. PP shall install a slag crusher to convert steel slag into aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in cement making. b. PP shall recycle/reuse solid waste generated in the plant as far as possible. c. Used refractories shall be recycled as far as possible.

### 11. Waste Management In Case Of Sinter Plant

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

### 12. Green Belt

S. No	EC Conditions
12.1	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.
12.2	Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames.
12.3	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.

### 13. Public Hearing And Human Health Issues

S. No	EC Conditions
13.1	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
13.2	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.
13.3	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP. Safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
13.4	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.

#### 14. Environment Management

S. No	EC Conditions
14.1	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.
14.2	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
14.3	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
14.4	Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEF&CC.

#### 15. Miscellaneous

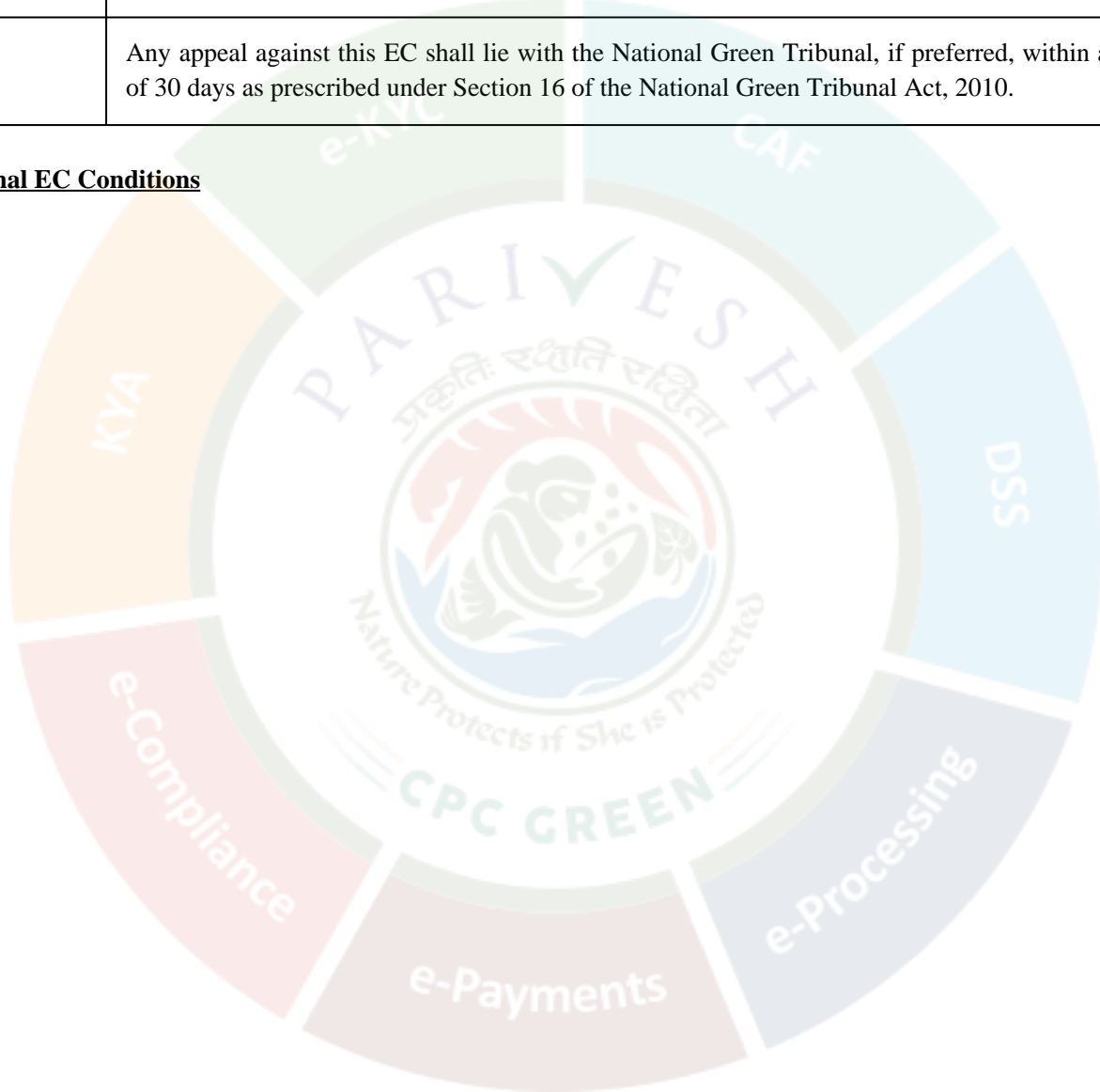
S. No	EC Conditions
15.1	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in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

S. No	EC Conditions
15.2	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
15.3	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
15.4	The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
15.5	Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented
15.6	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
15.7	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
15.8	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
15.9	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
15.10	The recommendations of the approved Site-Specific Wildlife Management Plan (in case of involvement of Schedule-I species) shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.
15.11	The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.
15.12	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
15.13	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.

S. No	EC Conditions
15.14	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
15.15	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
15.16	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
15.17	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

**Additional EC Conditions**

NA



S. No	Particulars	Details																									
		Date of application	Consideration	Details	Date of accord	ToR Validity																					
a.	Terms of Reference for undertaking EIA study	15.06.2024	62 <sup>nd</sup> EAC Meeting held during 3 <sup>rd</sup> -5 <sup>th</sup> July 2024	Terms of Reference	02.08.2024	01.08.2028																					
b.	Period of baseline data collection	1 <sup>st</sup> October 2023 to 31 <sup>st</sup> December 2023																									
c.	Date of Public Consultation	12.12.2024																									
d.	Action plan to address the PH issues	Action plan as per MoEF&CC O.M. dated 30/09/2020 to address the issues raised during public hearing with a budget of Rs. 19.19 Crores is attached as Annexure IV.																									
e.	Location of the project	Village - Haresamudram, Mandal - Bommanahal, District Ananthapur, Andhra Pradesh																									
f.	Total land	Total land after proposed expansion project is 81.836 ha (142.94 acres)																									
g.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	<ul style="list-style-type: none"> <li>About 70% land acquired vide NCLT Case No. / Order No. IA (IBC) 1198 &amp; 1475/2022 in CP(IB) No. 17/9/HDB/2020 (U/S 9 of IBC, 2016) dated 31.03.2023.</li> <li>Land acquisition is completed for the additional area of 23.99 covered under Survey Plot No. 39/B5, 35/B3 ,36/2, 36/1, 39/B4 ,35/B1 ,39/B2 ,36/2 39/B3 ,34/A, 36/1 ,36/2 ,39/A ,54/B, 53/C ,52/C. 48/A. 51/B. 53/B .52/B .51/A .53/D. 51/C. 40/A .36/1 &amp; 39/B6. 36/1.</li> </ul>																									
h.	Existence of habitation & involvement of R&R, if any	<p><b>Project Site:</b> No habitation at project site.</p> <p><b>Study Area:</b></p> <table border="1"> <thead> <tr> <th>Habitation</th> <th>Distance (km)</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Kuruvalli village</td> <td>1.5</td> <td>ENE</td> </tr> <tr> <td>Bommanahallu Village</td> <td>2.0</td> <td>WSW</td> </tr> <tr> <td>Haresamudram</td> <td>3.7</td> <td>SE</td> </tr> <tr> <td>Untakallu Village</td> <td>4.2</td> <td>SW</td> </tr> <tr> <td>Devagiri Village</td> <td>4.2</td> <td>S</td> </tr> <tr> <td>Ettinabadihalli Village</td> <td>4.4</td> <td>NNW</td> </tr> </tbody> </table> <p><b>R &amp; R :</b> Not involved.</p> <p>The housing facility of 2.499 ha in the NW direction of existing project, proposed to be acquired was for the project man-power built by erstwhile project proponent but the same was not transferred to JSAW through NCLT process. The same is now being envisaged to be acquired for project people.</p>					Habitation	Distance (km)	Direction	Kuruvalli village	1.5	ENE	Bommanahallu Village	2.0	WSW	Haresamudram	3.7	SE	Untakallu Village	4.2	SW	Devagiri Village	4.2	S	Ettinabadihalli Village	4.4	NNW
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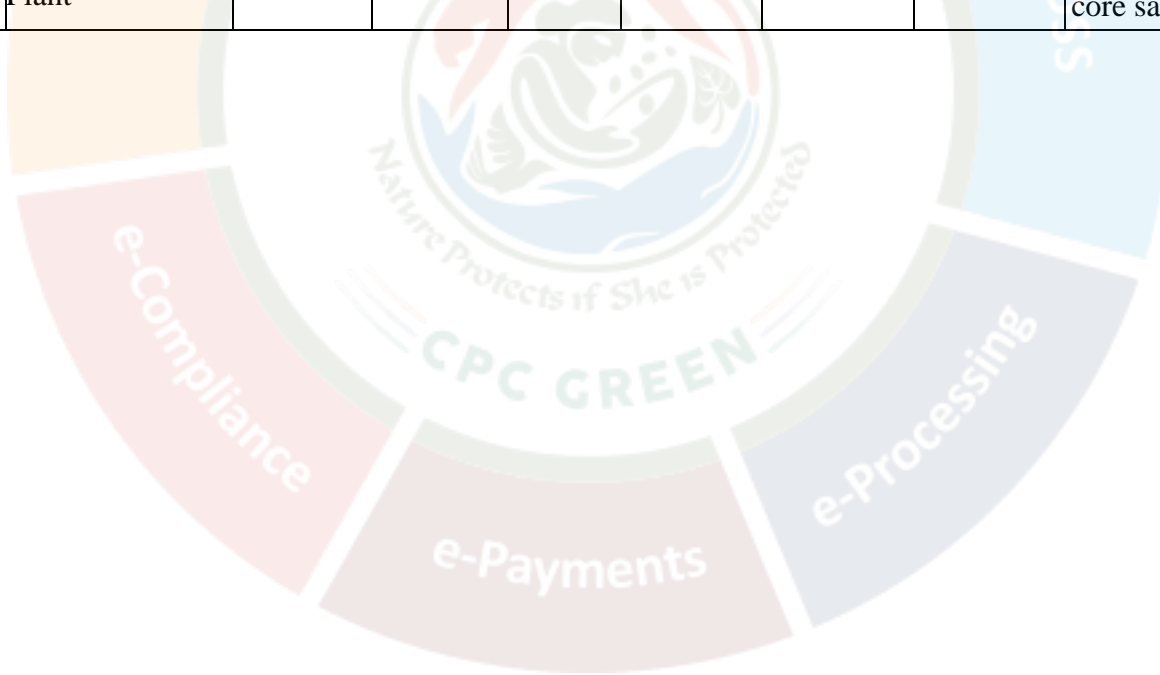
S. No	Particulars	Details																					
		The built-up houses will not be dismantled but will be used by the project employees.																					
i.	Elevation of the project site	Site elevation is 444.5m AMSL (Above Mean Sea Level)																					
j.	Involvement of Forest land if any.	No forest land involved within the project site.																					
k.	Water body exists within the project site as well as study area	<p><b>Project Site:</b></p> <p>a) Only a second order (ephemeral) drainage channel enters from outside in the project area, and after running parallel to plant boundary leaves the project site.</p> <p>b) Another 1<sup>st</sup> order drainage channel from within the project area leaves the SE corner of the proposed project boundary.</p> <p><b>Study area:</b></p> <table border="1" data-bbox="472 869 1431 1173"> <thead> <tr> <th>Water body</th> <th>Distance (km)</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Hagari River</td> <td>3.3</td> <td>E</td> </tr> <tr> <td>Boyala Venka</td> <td>5.5</td> <td>S</td> </tr> <tr> <td>Chinna Hagari River</td> <td>6.9</td> <td>S</td> </tr> <tr> <td>Benja Halla</td> <td>8.1</td> <td>N</td> </tr> <tr> <td>Pedda Vanka</td> <td>8.1</td> <td>E</td> </tr> <tr> <td>Tungbhadra High Level Canal</td> <td>2.6</td> <td>WSW</td> </tr> </tbody> </table> <p>a) The proposed project area through which the drainage channel passes through the proposed greenbelt area. The drainage channel will be made smooth and paved for smooth flow with greenbelt on both the edges.</p> <p>b) The natural drainage starting from within the project area will be merged with the plant drainage network.</p> <p>The project site do not falls under flood affected area of Hagari River. The NOC from WR Deptt. regarding. location with the 25years floodplain of Hagari River with Letter .File /2R-1/DB-JTO/No. 343M, Date :09.09.2024. As per the WRD NOC the High Flood Level found out ( year-2022 flood) to be 5.3m of elevation with respect to the river bed level, which is 1.980Km from the Hagari River. The project site is having an elevation of 15.86 m with respect to the river bed level, and is 4.02Km away from the Hagari River.</p> <p>Further, the NOC from WR Deptt, I.B Division Dharmavaram obtained on 09.09.2024 states the following:</p>	Water body	Distance (km)	Direction	Hagari River	3.3	E	Boyala Venka	5.5	S	Chinna Hagari River	6.9	S	Benja Halla	8.1	N	Pedda Vanka	8.1	E	Tungbhadra High Level Canal	2.6	WSW
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S. No	Particulars	Details						
		<ul style="list-style-type: none"> <li>There are no major water bodies/perennial nalas present in the radius of 100m of the located site.</li> <li>There is a seasonal ephemeral drain entering the southern project boundary and after running 400Mts along the project boundary, through the project proposed green belt area, leaves the project boundary, the project proponent should not disturb the natural flow of this seasonal drain which is flowing in the green belt area of the project boundary.</li> </ul>						
l.	Existence of ESZ / ESA / national park / wildlife Sanctuary / biosphere Reserve / tiger reserve / elephant reserve etc. if any within the study area	<p>No ESZ / ESA / National Park / Wildlife Sanctuary / Biosphere Reserve / Tiger Reserve / Elephant Reserve exist within 10 Km. radius of the plant site</p> <p>List of Reserved forest:</p> <table border="1" data-bbox="619 882 1283 1003"> <thead> <tr> <th data-bbox="619 882 887 958">Name</th> <th data-bbox="887 882 1126 958">Distance (Kms.)</th> <th data-bbox="1126 882 1283 958">Direction</th> </tr> </thead> <tbody> <tr> <td data-bbox="619 958 887 1003">Mincheri RF</td> <td data-bbox="887 958 1126 1003">4.5 km</td> <td data-bbox="1126 958 1283 1003">WNW</td> </tr> </tbody> </table>	Name	Distance (Kms.)	Direction	Mincheri RF	4.5 km	WNW
Name	Distance (Kms.)	Direction						
Mincheri RF	4.5 km	WNW						
m.	Project cost	The capital cost of the proposed Expansion project is Rs. 1214.91 Crores						
n.	EMP cost	<table border="1" data-bbox="472 1193 1431 1305"> <thead> <tr> <th data-bbox="472 1193 692 1270">EMP</th> <th data-bbox="692 1193 1031 1270">Capital (Rs. in Lakhs)</th> <th data-bbox="1031 1193 1431 1270">Recurring (Rs. in Lakhs)</th> </tr> </thead> <tbody> <tr> <td data-bbox="472 1270 692 1305"></td> <td data-bbox="692 1270 1031 1305">Rs. 30 Crores</td> <td data-bbox="1031 1270 1431 1305">Rs. 3 Crores</td> </tr> </tbody> </table>	EMP	Capital (Rs. in Lakhs)	Recurring (Rs. in Lakhs)		Rs. 30 Crores	Rs. 3 Crores
EMP	Capital (Rs. in Lakhs)	Recurring (Rs. in Lakhs)						
	Rs. 30 Crores	Rs. 3 Crores						
o.	Employment opportunity	The employment generation from the proposed project is 1541.						
p.	Water and Power requirement	<p>Existing Water requirement is 2435 m<sup>3</sup>/day, water requirement is obtained from Hagari river. The water requirement for the proposed project is estimated as 4564 m<sup>3</sup>/day, out of which industrial requirement is 6200 KLD and Domestic requirement is 800 KLD of water.</p> <p>Existing power requirement of 20.6 MW is obtained from existing power plant. The power requirement for the proposed project is estimated as 22.7 MW, which will be obtained from existing and proposed power plant.</p>						
q.	CPA/SPA	The plant site is not located in CPA/SPA						

The unit configuration and capacity of existing and proposed project are provided below.

S. No.	Plant Equipment / Facility	Existing Facility as per EC Dated 02.06.2011 & Subsequent Amendment Dated 13.03.2014				Proposed Unit	Final (Existing + Proposed)	Remarks
		Total (A+B)	Implemented (B)	Un-implemented	As per CTO			
		Configuration / Capacity	Configuration / Capacity	Configuration / Capacity	Configuration / Capacity			
1.	Pig Iron Plant / Blast Furnace (Pig Iron / Hot Metal)	2,50,000 TPA	2,50,000 TPA	-	2,50,000 TPA	2,00,000 TPA	4,50,000 TPA	Capacity enhancement of existing Unit by Modernisation / Technological Up-gradation
2.	Captive Power Plant	30 MW (Imported Coal) Operating at 26.43 MW	30 MW (Imported Coal) Operating at 26.43 MW	-	30 MW (Imported Coal) Operating at 26.43 MW	Operating at 30 MW (Imported Coal)	30 MW (Imported Coal)	Running Existing CPP at Full Capacity with Imported Coal
3.	New Captive Power Plant	-	-	-	-	30 MW (Imported Coal)	30 MW (Imported Coal)	New Unit based on Imported Coal
	<b>Total Power Generation</b>	<b>1x30 MW</b>	<b>30MW (26.43 MW)</b>	<b>-</b>	<b>30MW (26.43 MW)</b>	<b>2X30MW</b>	<b>60MW</b>	<b>-</b>
4.	Ductile Iron (DI) Pipe Plant	1,90,000 TPA	1,90,000 TPA	-	1,90,000 TPA	1,10,000 TPA	3,00,000 TPA	Capacity enhancement of existing Unit by Modernisation / Technological Up-gradation
5.	New Small Ductile Iron Pipe (SDP) Plant	-	-	-	-	1,50,000 TPA	1,50,000 TPA	New Unit
	<b>Total DI Plant Production</b>	<b>1,90,000 TPA</b>	<b>1,90,000 TPA</b>	<b>-</b>	<b>1,90,000 TPA</b>	<b>2,60,000 TPA</b>	<b>4,50,000 TPA</b>	<b>-</b>

S. No.	Plant Equipment / Facility	Existing Facility as per EC Dated 02.06.2011 & Subsequent Amendment Dated 13.03.2014				Proposed Unit	Final (Existing + Proposed)	Remarks
		Total (A+B)	Implemented (B)	Unimplemented	As per CTO			
		Configuration / Capacity	Configuration / Capacity	Configuration / Capacity	Configuration / Capacity			
6.	Sinter Plant	2,98,800 TPA	2,98,800 TPA	-	2,98,800 TPA	2,51,200 TPA	5,50,000 TPA	Capacity enhancement of existing Unit by Modernisation / Technological Up-gradation
7.	New Sand Reclamation Plant	-	-	-	-	24,000 TPA	24,000 TPA	New Unit to recycle the used core sand



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

S. No.	Physical activity and action plan		Year of implementation (Budget in INR) Lakh				Total Expenditure (Rs. In Crores)
	Name of the Activity	Physical Targets	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	
Village adoption programme which includes 6 Villages namely Kuruvalli, Bommanahal, Haresamudram, Chandragiri, Siddarampuram and Bellanguddam							
1	Plantation	Plantation with fruit and medicinal trees will be undertaken in nearby areas like, <b>Nearby Schools:</b> Primary School Mundwa- (500 trees) and Shree Vageshwari Sr. Sec. School, (500 trees) <b>Nearby Villages:</b> Kuruvalli Village-(500 trees), Chandragiri Village – (500 trees), Bommanahal Village - (1000 trees), Siddarampuram village – (500 trees) and Haresamudram Village (500 trees), Bellanguddam village (500 trees), Untakal village (500 trees)	10	10	10	10	0.40

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	Name of the Activity	Physical Targets	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	
2	<b>Health &amp; Medical Facilities</b>	<p>Repairing of Existing Govt. dispensary, providing medical equipment in the village Bommanahal Mandal.</p> <p>Ambulance facility as required by the villagers for emergency case will be arranged from plant Dispensary upto Bellari</p> <p>One medical eye care camp annual will be held in each villages</p> <p>One medical camp quarterly with free distribution of medicines will be conducted in each village</p>	25	25	25	25	1.0
3	Agricultural Crop Damage Compensation	Crop compensation in case of any crop damage due to the project based on assessment by Mandal agriculture officers	15	15	15	15	0.60

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	Name of the Activity	Physical Targets	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	
		Awareness camp on crop insurance and and Central labour education programmes will be conducted with government support to increase farm produce.					
4	Infrastructure Development in Village Bommanahal	Village adoption plan. Activities, RO plant for drinking water, overhead tank, Solar Lights 20, CC road from main road to Panchayat-150m, Drainage system of main street-150m, repairing of school with furniture, library and STP, School bus for children, Solid waste management vehicle-2nos, Rain water harvesting for school building	85	85	110	173	4.53
5	Infrastructure Development in Village Kuruvalli	Village adoption plan. Activities, RO plant for drinking water, overhead tank,	50	60	65	70	2.45

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	Name of the Activity	Physical Targets	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	
		Solar Lights 10, CC road from main road to Panchayat-100m, Drainage system of main street-100m, repairing of school with furniture, library, School bus for children, Rain water harvesting for school building					
6	Infrastructure Development in Village Haresamudram	Village adoption plan. Activities, RO plant for drinking water, overhead tank, Solar Lights 10, CC road from main road to Panchayat-100m, Drainage system of main street-100m, repairing of school with furniture, library, Rain water harvesting for school building	50	60	65	70	2.45
7	Infrastructure Development in Village Chandragiri	Village adoption plan. Activities, RO plant for drinking water, overhead tank, Solar Lights 10, CC road from	50	60	65	70	2.45

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	Name of the Activity	Physical Targets	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	
		main road to Panchayat-100m, Drainage system of main street-100m, repairing of school with furniture, library, School bus for children, Rain water harvesting for school building					
8	Infrastructure Development in Village Siddarampuram	Village adoption plan. Activities, RO plant for drinking water, overhead tank, Solar Lights 10, CC road from main road to Panchayat-100m, Drainage system of main street-100m, repairing of school with furniture, library, School bus for children, Rain water harvesting for school building	50	60	65	70	2.45
9	Infrastructure Development in Village Bellanguddam	Village adoption plan. Activities, RO plant for drinking water, overhead tank, Solar Lights 10, CC road from main road to	50	60	65	70	2.45

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	Name of the Activity	Physical Targets	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	
		Panchayat-100m, Drainage system of main street-100m, repairing of school with furniture, library, School bus for children, Rain water harvesting for school building					
	Alternate road to avoid traffic congestion others in between plant and Bommanahal	Alternate road bypass to Village Bommanahal is under approval of district administration and company will built once approved by the Govt.	Included in Project cost				
10	Skill development	Company will arrange Skill development program including green skills among youth, women empowerment through NGO for self-employment and engagement of old age people for green credits program. For underground drainage system,	15	15	15	15	0.60

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		company will request the Govt authority. Awareness on green drive and ban on single use plastic, promote green credits programs.  6 Villages, total Budget-60 Lakh.					
11	Youth scholarship programme	Meritorious poor students will be provided scholarship for higher education- (Budget, Rs 20 Lakh. For Rs. 1500 month per student total 111 student)	5	5	5	5	0.20
12	Control of Emission	Considered latest pollution control measures as per the CREP guidelines and sectorial emission to meet the prescribed norms. Cost included in part of project cost.	-	-	-	-	-
<b>Total</b>			<b>395</b>	<b>445</b>	<b>495</b>	<b>583</b>	<b>19.18</b>