



सत्यमेव जयते

File No: J-11011/322/2008-IA-II-I  
Government of India  
Ministry of Environment, Forest and Climate Change  
IA Division  
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Date 19/10/2024



To,

M/s. ARJAS STEEL PRIVATE LIMITED  
JAMBULAPADU VILLAGE, TADIPATRI , Jambulapadu, ANANTAPUR, ANDHRA PRADESH ,  
515411  
Email: john.christopher@arjas.com

**Subject:** Expansion in the production capacity under para 7 (ii) (a) of EIA notification 2006 for expansion of steel plant from 0.321 MTPA to 0.3852 MTPA (20 % increase) in an existing site area of 887.42 acres (359.12 ha) by M/s. Arjas Steel Private Limited (Formerly Gerdau Steel India Limited) , located at Survey Nos. 1 (P), 2, 3, 4, 5, 6 (P) etc of Challavaripalli, 265, 266, 292, etc of Hussainpuram, 171, 172, 178, 193, etc. of Veerapuram, 1, 2(P), 3(P), 4-8, 11-15, 17(P), etc of Jambulapadu and 348(P), 352 of Bodaipalli, Jambulapadu Village, Tadipatri Mandal, Ananthpur District, Andhra Pradesh-Grant of Environmental Clearance

Sir/Madam,

This refers to your proposal no IA/AP/IND1/427000/2023 dated 29.04.2024 along with copy of EIA/EMP report, Forms (Part A, B and C) seeking Environment Clearance (EC) under the provisions of para 7(ii) of the EIA Notification, 2006 for the project mentioned above.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC23A1001AP5766276N
(ii) File No.	J-11011/322/2008-IA-II-I
(iii) Clearance Type	Fresh EC
(iv) Category	A
(v) Project/Activity Included Schedule No.	3(a) Metallurgical Industries (ferrous and non ferrous)
(vi) Sector	Industrial Projects - 1 Expansion in the production capacity under para 7 (ii) (a) of EIA notification 2006 for expansion of steel plant from 0.321 MTPA to 0.3852 MTPA (20 % increase) in an existing site area of 887.42 acres (359.12 ha) by M/s. Arjas Steel Private Limited (Formerly Gerdau Steel India Limited)
(vii) Name of Project	

(viii) Name of Company/Organization	ARJAS STEEL PRIVATE LIMITED
(ix) Location of Project (District, State)	ANANTAPUR, ANDHRA PRADESH
(x) Issuing Authority	MoEF&CC
(xi) Applicability of General Conditions as per EIA Notification, 2006	No

3. The proposed project activity is listed at S. No. 3(a) Metallurgical industries (Ferrous & Non-Ferrous) and 1(d) Thermal power plant, under Category “A” of the schedule of the EIA Notification, 2006 and appraised at the central level.

4. The instant proposal was considered in the 63<sup>rd</sup> EAC Meeting held during 23-25<sup>th</sup> July, 2024 wherein after detailed deliberations, the committee recommended the proposal for grant of Environment Clearance under the provisions of EIA Notification, 2006 subject to the stipulation of specific conditions and general conditions. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed at <https://parivesh.nic.in>.

5. The details of the proposal are as per the EIA/EMP report submitted by the proponent. The salient features of the proposal as presented during the above-mentioned meetings of EAC (Industry 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 63<sup>rd</sup> EAC Meeting held during 23-25<sup>th</sup> July, 2024, inter-alia, deliberated the following:

- i. The instant proposal is for expansion of the steel plant capacity from 0.321 MTPA to 0.3852 MTPA (20% increase) under para 7(ii) of EIA Notification, 2006 [OM dated 11.04.2022].
- ii. The EAC deliberated on the justification provided by the Project Proponent for appraisal of instant proposal under para 7(ii) of EIA Notification, 2006 in pursuance to the Ministry’s O.M. dated 11.04.2022 and found it satisfactory. Further, since PP has prepared the Addendum EIA/EMP for seeking expansion of production capacity of the steel plant from 0.321 MTPA to 0.3852 MTPA (20% increase) and considering the provisions mentioned in the O.M. dated 11.04.2022, the EAC agreed to apprise the proposal for expansion for the proposed expansion in the instant case.
- iii. The project was initially granted Environmental Clearance (EC) to M/s. SJK Steel Corporation Limited for a 0.3 MTPA integrated steel plant, as per letter No. F. No. J-11012/35/97-I(A) II dated 16.04.1999. The unit obtained EC for expanding the integrated steel plant from 0.3 MTPA to 1 MTPA on 29.05.2010, along with a name change to M/s. Kalyani Gerdaul Steels Limited in the same EC letter. Further amendments to the EC were made on 08.10.2010. The EC was then transferred from M/s. Kalyani Gerdaul Steels Limited to M/s. Gerdaul Steel India Limited by the MoEF&CC on 03.02.2015. Extensions of EC validity were granted on 25.08.2015 and 29.08.2017. The current Project Proponent received the EC transfer in its name on 09.01.2023. The consent for operation of the existing unit was accorded by the Andhra Pradesh State Pollution Control Board, Order No. 322625/APPCB/KNL/ATP/CFO&HWA/HO/2022, dated 09.03.2022, and is valid until 30.11.2026.
- iv. 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 addendum to the EIA/EMP reports prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.
- v. 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 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.
- 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 total project area is 359.12 ha (887.42 acres) (Private Land) and the entire land has been acquired and in possession of the company. The proposed expansion will be carried out within the existing plant premises. No additional land is required for expansion of proposed project.
- viii. As reported, Jambulapadu village is at a distance of 0.07 km in South direction of project site along with other

sensitive areas within the study area of the project site. The EAC is of the opinion that PP shall prepare and strictly implement the environmental safeguard measures to minimise the impact of the project activities on these sensitive areas.

- ix. Penneru Nadi is at a distance of 1.41 km in North of the project site along with other water bodies within study area of the project site. PP has submitted that the HFL of Penneru river is at 230.34 AMSL, while the site AMSL ranges from 240 to 249. Penneru River HFL data, NOC copy, along with Drainage Conservation plan and rain water harvesting plan is submitted. The EAC is of the opinion that water bodies shall not be disturbed. Mitigation measures w.r.t. safeguarding the water bodies shall be implemented.
- x. The total fresh water requirement after expansion will be 6250 KLD which will be obtained from infiltration bore wells on the bed of Penneru. The EAC deliberated on the water requirement and is of the opinion that PP shall obtain necessary permission from the Competent Authority.
- xi. The Committee has deliberated on the baseline data and incremental GLC due to the proposed project and found it satisfactory.
- xii. The Committee also deliberated on the earlier public hearing issues and the status of compliance of action plan submitted by the proponent to address the issues raised during the public hearing along with the additionally proposed action plan for socio-economic development of the area and found it satisfactory.
- xiii. The Committee deliberated on the baseline data along with pollution load assessment reported and observed that total raw water requirement is reduced due to water conservation measures and reuse of treated wastewater and emission load is slightly increasing after the proposed expansion. Accordingly, the EAC found it satisfactory to appraise the instant proposal under para 7(ii) of EIA Notification, 2006.
- xiv. The EAC noted that the existing greenbelt has been developed in 121.54 ha area which is about 33.84% of the total project area of 359.12 ha. The EAC deliberated on the greenbelt status and is of the opinion that greenbelt shall be maintained as per the norms.
- xv. The committee deliberated details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found them to be satisfactory.
- xvi. The Committee deliberated upon the certified compliance report of IRO, MoEF&CC along with ATR and review report of IRO and is of the opinion that PP shall strictly comply with the observations and recommendations of IRO and Compliance Monitoring Division (CMD) of MoEF&CC. **The EC shall be granted subject to closure of non-compliances observed in CCR by CMD of MoEF&CC.**
- xvii. The EAC also deliberated on the aspect of modification of stoves for single blast furnace and took into consideration the following reply by the project proponent:

*a. A Hot blast stove is used to preheat air used in the blast furnace. There are 3 stoves for single blast furnace. Typically, the stoves have a working life of 15-20 years and since these stoves were constructed in the very first EC (granted in 1999) they have reached their end of life and need to be replaced. Usually, when all the stoves are in a good condition the Blast Furnace can operate at a high hot blast temperature (typically 1200 °C). But due to the failing stoves, currently Hot Blast Temperature is around 950 °C. Because of the lower blast temperature, more coke and coal need to be used in the Blast Furnace, increasing cost as well as increasing the carbon footprint. We are replacing 1 by 1 the stoves (consider it as a maintenance activity). There is no capacity addition due to the stove replacement. Since the stoves are getting replaced after 15+ years, there has been some advancement in stove design and a more efficient stove is being constructed. Detailed Blast Furnace stoves replacement justification is provided with ADS reply.*

The EAC took note of the submission, and found it satisfactory. It also noted that such a modification is a maintenance activity. Hence, it may not be construed as a violation of previous EC.

- xviii. The EAC deliberated on the proposal with due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC found the proposal in order and recommended for grant of environmental clearance.
- xix. The environmental clearance recommended to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. It does not tantamount/construe to approvals/consent/permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

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

8. The EAC (Industry-1 Sector), in its 63rd EAC Meeting held during 23-25th July, 2024, based on information & clarifications provided by the project proponent and after detailed deliberations **recommended** the proposal for grant of Environment Clearance under the provisions of para 7(ii) of EIA Notification, 2006 for 20% expansion in steel plant capacity from 0.321 MTPA to 0.3852 MTPA subject to the stipulation of following specific conditions and general conditions based on project specific requirements:

9. PP has uploaded Action Closure Letter (ACL) report on non-compliances observed in CCR by CMD of MoEF&CC vide letter dated 30/09/2024 on portal.

10. The MoEF&CC has examined the proposal in accordance with the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and after accepting the recommendations of the Expert Appraisal Committee (Industry-1 Sector) hereby decided to grant **Environment Clearance for instant proposal of M/s. Arjas Steel Private Limited** under the provisions of EIA Notification, 2006 subject to the following specific conditions and general conditions (**Annexure-I**)

11. 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.

12. 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.

13. 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.

14. 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.

15. This issues with approval of the competent authority.

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**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
7. The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi, Delhi 110001
8. The Chief Wildlife Warden, Govt. of Andhra Pradesh, Aranya Bhawan, Saifabad, Hyderabad-500004
9. The District Collector, District Ananthpur, Andhra Pradesh
10. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi.
11. Guard File/Monitoring File/Record File/ MoEF&CC Website/ 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 of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.
1.4	As reported, Jambulapadu village is at a distance of 0.07 km in South direction of project site along with other sensitive areas within the study area of the project site. Proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. The project proponent needs to strengthen green belt all around the plant area to reduce the dust pollution. The PP shall also include some of these locations in its environmental monitoring programme.
1.5	Penneru Nadi is at a distance of 1.41 km in North of the project site along with other water bodies within study area of the project site. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.
1.6	The water requirement of 6250 KLD shall be obtained from infiltration bore wells on the bed of Penneru. PP shall obtain necessary permission from the Competent Authority.

S. No	EC Conditions
1.7	Three tier Green Belt shall be maintained in at least 33% of the project area along the project site 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.
1.8	The PP is advised to implement the 'Ek Ped Maa Ke Naam' Campaign which was launched on 5th June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive will be other than Green belt development.
1.9	All the commitments made towards socio-economic development of the nearby villages shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.
1.10	The project proponent shall undertake village adoption programme and prepare and implement the action plan to develop them into a model village.
1.11	Sensors for CO gas with alarm system, must be installed at strategic locations inside the Plant.

**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 04Nos. 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

S. No	EC Conditions
	specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
2.2	The project proponent shall carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.
2.3	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
2.4	Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions.
2.5	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
2.6	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
2.7	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
2.8	
2.9	Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/ agglomeration.
2.10	The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.
2.11	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
2.12	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.
2.13	Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.
2.14	The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to 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.

S. No	EC Conditions
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 <sup>3</sup> 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.
2.19	Dry quenching (CDQ) system shall be installed along with power generation facility from waste heat recovery from hot coke
2.20	Facilities for spillage collection shall be provided for coal and coke on wharf of coke oven batteries (Chain conveyors, land based industrial vacuum cleaning facility). Land-based APC system shall be installed to control coke pushing emissions.
2.21	
2.22	Vapor absorption system shall be provided in place of vapour compression system for cooling of coke oven gas in case of recovery type coke ovens.
2.23	
2.24	
2.25	
2.26	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.
2.27	Low NO <sub>x</sub> Burners will be installed at Reheating Furnace for control of Gaseous emissions generated while using PNG.

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

S. No	EC Conditions
3.1	Basic Oxygen Furnace (BOF) gas shall be cleaned dry

### 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	The project proponent shall provide appropriate ETP for effluents discharged from coke oven and by-product to meet the standards prescribed in G.S.R 277 (E) 31st March 2012 (applicable to Coke oven plants) as amended from time to time.
4.10	
4.11	Air Cooled condensers shall be used in the captive power plant.

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

S. No	EC Conditions
5.1	The project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R 277 (E) 31st March 2012 (applicable to IF/EAF) as amended from time to time. (in case of rolling mills)

#### 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.
7.5	Coke Dry Quenching (CDQ) shall be provided for coke quenching for both recovery and non-recovery type coke ovens.

## 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. Oil collection trays shall be provided under coils on saddles in cold rolled coil storage area.
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 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.
11.4	
11.5	Tar Sludge and waste oil shall be blended with coal charged in coke ovens (applicable only to recovery type coke ovens).

## 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 /

S. No	EC Conditions
	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.
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

S. No	EC Conditions
	EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
15.10	The recommendations of the approved Site-Specific Wildlife Management Plan (in case of involvement of Schedule-I species) shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.
15.11	The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.
15.12	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
15.13	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
15.14	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
15.15	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
15.16	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
15.17	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

**Additional EC Conditions**

NA

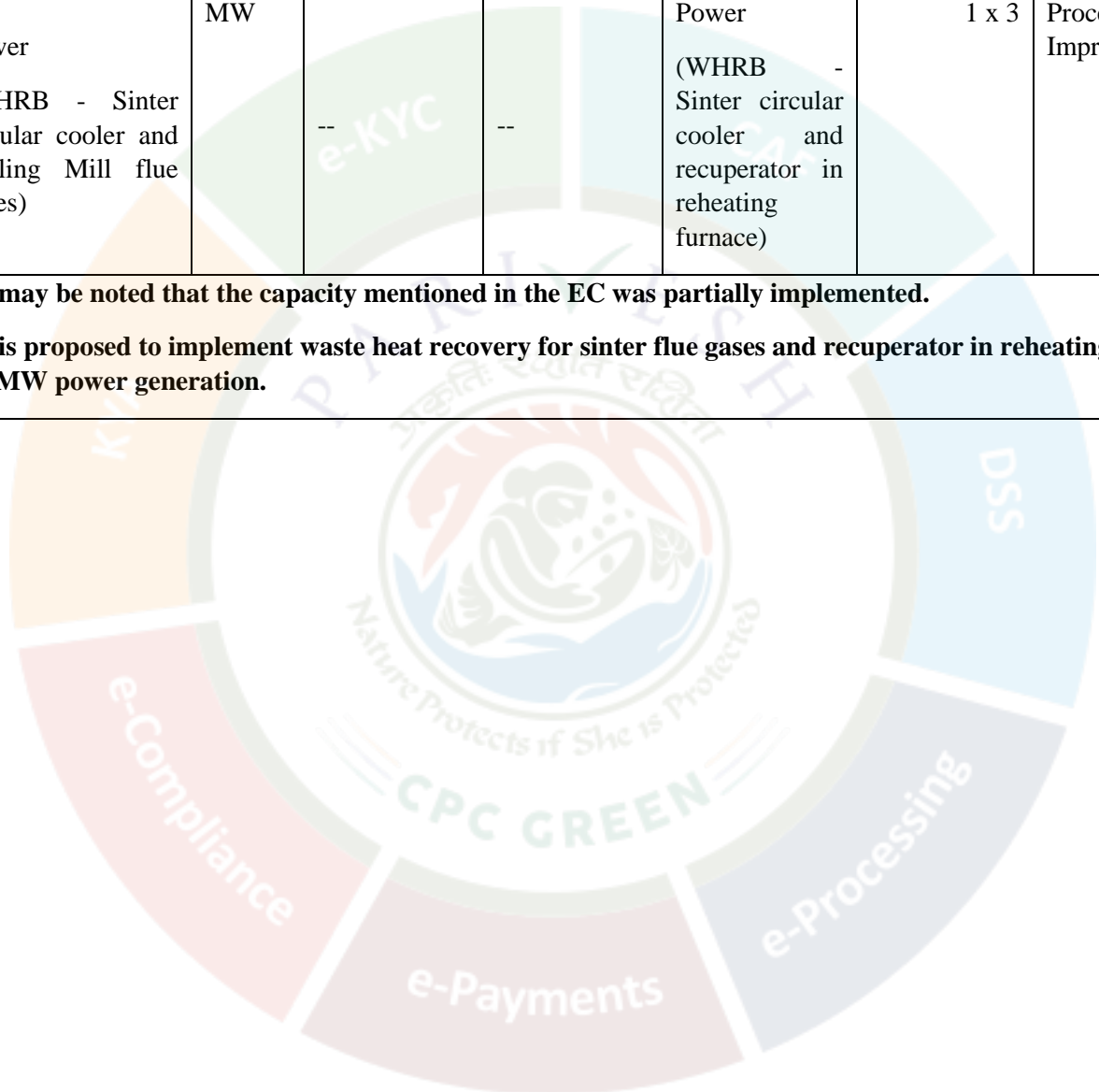
S. No.	Particulars	Details						
a.	Terms of Reference for undertaking EIA study	The instant proposal is under para 7(ii) of EIA Notification, 2006.						
b.	Period of baseline data collection	October-December, 2022						
c.	Date of Public Consultation	Public hearing has been exempted from this project in pursuance to the Ministry's O.M. dated 11.04.2022 for appraisal of instant proposal under para 7(ii) of EIA Notification, 2006.						
d.	Action plan to address the PH issues	Need based activities detail proposed are attached as <b>Annexure IV</b> .						
e.	Location of the project	Survey Nos. 1 (P), 2, 3, 4, 5, 6 (P) etc of Challavaripalli, 265, 266, 292, etc of Hussainpuram, 171, 172, 178, 193, etc. of Veerapuram, 1, 2(P), 3(P), 4-8, 11-15, 17(P), etc of Jambulapadu and 348(P), 352 of Bodaipalli, Jambulapadu Village, Tadipatri Mandal, Ananthpur District, Andhra Pradesh						
f.	Total land	Total land: 359.12 ha (887.42 acres) (Private Land)						
g.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	It is a private land under the possession of Arjas Steel Private Limited. The expansion will take place within the existing land. No extra land is required for the proposed expansion.						
h.	Existence of habitation & involvement of R&R, if any	Existence of Habitation Project Site: Nil Study area: Jambulapadu village – 0.07 km – S direction						
i.	Elevation of the project site	240-249 m above mean sea level						
j.	Involvement of Forest land if any.	No Forest Land is involved in the project site.						
k.	Water body exists within the project site as well as study area	<p><b>Project site:</b> Drain passing adjacent to the site. <b>Study area:</b></p> <table border="1"> <thead> <tr> <th>Water body</th> <th>Distance (Km)</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Penneru River</td> <td>1.41</td> <td>N</td> </tr> </tbody> </table>	Water body	Distance (Km)	Direction	Penneru River	1.41	N
Water body	Distance (Km)	Direction						
Penneru River	1.41	N						

S. No.	Particulars	Details								
l.	Existence of ESZ / ESA / national park / wildlife Sanctuary / biosphere Reserve / tiger reserve / elephant reserve etc. if any within the study area	<b>Project Site:</b> Nil <b>Study Area:</b> <b>Reserve Forest:</b> <table border="1"> <thead> <tr> <th>Name</th> <th>Distance, km</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Dobbudapalle RF</td> <td>9.04</td> <td>NE</td> </tr> </tbody> </table>			Name	Distance, km	Direction	Dobbudapalle RF	9.04	NE
Name	Distance, km	Direction								
Dobbudapalle RF	9.04	NE								
m.	Project cost	Existing capital cost of the project was 1760 crores. The capital cost for proposed expansion is Rs. 595 crores								
n.	EMP cost	<table border="1"> <thead> <tr> <th>EMP</th> <th>Capital (Rs. in Crores)</th> <th>Recurring (Rs. in Crores)</th> </tr> </thead> <tbody> <tr> <td></td> <td>127.29</td> <td>29.05</td> </tr> </tbody> </table>	EMP	Capital (Rs. in Crores)	Recurring (Rs. in Crores)		127.29	29.05		
EMP	Capital (Rs. in Crores)	Recurring (Rs. in Crores)								
	127.29	29.05								
o.	Employment opportunity	The employment generation from the proposed project/expansion is 126								
p.	Water and Power requirement	Total water requirement will be 6250 m <sup>3</sup> /day. Power – Total power requirement for the proposed project will be around 44 MW.								
q.	CPA/SPA	The Project location is not in CPA/SPA.								

## Unit configuration and capacity

S. No	Product	Unit	Facilities as per EC dated 29.05.2010	Implemented facility as per CFO (i.e., within validity of EC)	Product Name After Process Expansion	Quantity After Expansion	Remarks
Finished Product							
1	REBAR Steel	MTPA	0.52	0.219	SBQ Steel (Bar and Coil)	0.3852	Product Change Mix – 20 % Increase in overall quantity. Bars are sold in straight length or coil form depending on the customer's requirement. Based on the market scenario, either bars or coils are produced but overall quantity of bar and coils will be within the 0.3852 MTPA.
2	SBQ Steel - Bars	MTPA	0.40	0.102			
3	SBQ Steel - Coils		--	--			
4	Cold Pig Iron	MTPA	0.078	0.159	Pig Iron	0.159	
	Intermediate Product		--				
	Pig Iron		1.0				
5	Steel Billets	MTPA	0.922	0.319 (Steel Billets)	Steel Billets/Ingots	0.403	Product Change Mix – Over all quantity remains same
				0.183 (Alloy Steel Casting)	Alloy steel casting	0.099	
6	Coke oven	MTPA	0.6	0.2	Coke	0.24	Process Improvement
7	Power (WHRB-Coke oven gas based)	MW	25	1 x 15	Power (WHRB-Coke oven gas based)	1 x 15	--
	Power (WHRB-Blast furnace gas based)			1 x 6	Power (WHRB-Blast furnace gas based)	1 x 6	--

S. No	Product	Unit	Facilities as per EC dated 29.05.2010	Implemented facility as per CFO (i.e., within validity of EC)	Product Name After Process Expansion	Quantity After Expansion	Remarks
8	Thermal Power Plant	MW	25	Not implemented	--	--	--
9	Power (WHRB - Sinter circular cooler and Rolling Mill flue gases)	MW	--	--	Power (WHRB - Sinter circular cooler and recuperator in reheating furnace)	1 x 3	Process Improvement
<p><b>Note 1: It may be noted that the capacity mentioned in the EC was partially implemented.</b></p> <p><b>Note 2: It is proposed to implement waste heat recovery for sinter flue gases and recuperator in reheating furnace to achieve 3 MW power generation.</b></p>							



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

Sector	Activity & Name of the village	Quantity	Year wise breakup (Physical in numbers & Financial in Lakh Rs.)							
			1 <sup>st</sup> year		2 <sup>nd</sup> year		3 <sup>rd</sup> year		Total	
			(2024-25)		(2025-26)		(2026-27)			
			Numbers	Budget	Numbers	Budget	Numbers	Budget	Numbers	Budget
1. Educational Programmes	i) Training programs on Sports & Games development.	Total 30 @ 10 Nos. / Year	10	15	10	15	10	15	30	45
	ii) Construction of Technical Training centre at Jambulapadu	1 (JPD)	0	0	1	75	0	75	1	150
	iii) Technical training programs	3	0	0	1	12.5	2	25	3	37.5
	iv) Construction of School Buildings Fencing works	3 (TDP, JPD, CVP)	0	0	1	25	2	25	3	50
	v) Establishment of STEM LABS in Govt. Schools in Anantapur District	30 (Existing schools spread across the district: 30 Schools)	10	24	10	25	10	25	30	74
	<b>Subtotal-1</b>			<b>39</b>		<b>152.5</b>		<b>165</b>		<b>356.5</b>
2. Health & Sanitation programs	i) Upgradation of Public Health centres	4	1	20	1	25	2	29	4	74
	ii) Additional Infrastructure development Burns Ward at Anantapur and Kurnool Area Hospital	2	1	22	0	0	1	23	2	45

Sector	Activity & Name of the village	Quantity	Year wise breakup (Physical in numbers & Financial in Lakh Rs.)							
			1 <sup>st</sup> year		2 <sup>nd</sup> year		3 <sup>rd</sup> year		Total	
			(2024-25)		(2025-26)		(2026-27)			
			Numbers	Budget	Numbers	Budget	Numbers	Budget	Numbers	Budget
	iii) Conducting medical camps	21 (7 Nos / Year)	7 Nos / Year	7	7 Nos / Year	7	7 Nos / Year	7	21	21
	iv) Conducting Swachh Bharath	*5 Villages & 1 Municipality	6	10	6	10	6	10	6	30
	<b>Subtotal-2</b>			<b>59</b>		<b>42</b>		<b>69</b>		<b>170</b>
3. Environmental awareness Programs	i) Plantation programs in villages, schools, hospitals & other government buildings.	*5 Villages & 1 Municipality (@1000 plants each)	2000	23	2000	23	2000	24	6000	70
	ii) Maintenance of Plantation in villages, schools, hospitals & other government buildings.	*5 Villages & 1 Municipality (@1000 plants each)	2000	20	2000	20	2000	20	6000	60
	iii) Rainwater harvesting structures in Villages	*5 Villages & 1 Municipality	100	15	100	15	200	30	400	60
	iv) Conducting Environmental awareness programs (1programme / 2 villages)	*5 Villages & 1 Municipality	6	13	6	13	6	14	6	40
	<b>Subtotal-3</b>			<b>71</b>		<b>71</b>		<b>88</b>		<b>230</b>
4. Infrastructure Development programs	i) Repairs/improvements to existing roads	*10 Km	3	14	3	14	4	15	10	43
	ii) Renovation and repairs of Anganwadi centres	3 Nos. (BDP, HPM, CVP)	1	14	1	14	1	14	3	42
	iii) Solar street Light arrangements in villages	*3 Nos.	1	12	1	12	1	12	3	36

Sector	Activity & Name of the village	Quantity	Year wise breakup (Physical in numbers & Financial in Lakh Rs.)							
			1 <sup>st</sup> year		2 <sup>nd</sup> year		3 <sup>rd</sup> year		Total	
			(2024-25)		(2025-26)		(2026-27)			
			Numbers	Budget	Numbers	Budget	Numbers	Budget	Numbers	Budget
	iv) Bus stops	6 Nos.	2	5	2	5	2	5	6	15
	<b>Subtotal-4</b>			<b>45</b>		<b>45</b>		<b>46</b>		<b>136</b>
	<b>Grand Total</b>			<b>214</b>		<b>310.5</b>		<b>368</b>		<b>892.5</b>

\* Tadiptri MC, Challavaripally, Jambulapadu, Hussainapuram, Bodaipally, Veerapuram  
TDP-Tadiptri MC, CVP-Challavaripally, JPD-Jambulapadu, HPM-Hussainapuram, BDP-Bodaipally, VRP-Veerapuram

