File No: SEIAA 29 IND 2024

Government of India

Ministry of Environment, Forest and Climate Change

(Issued by the State Environment Impact Assessment Authority(SEIAA), KARNATAKA)

****

Date **03/02/2026**

To,

M/s JSW- JFE Electrical Steel Private Limited
PO-VIDYANAGAR ,VILLAGE -TORANAGALLU,TALUK -SANDUR, DISTRICT-BALLARI,KARNATAKA,583275, , BALLARI, KARNATAKA, 583275
env.jswesl@jsw.in

Subject: Grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 -regarding.

Sir/Madam,

This is in reference to your application submitted to SEIAA vide proposal number SIA/KA/IND1/555540/2025 dated 14/11/2025 for grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC25B1009KA5117812N
(ii) File No.	SEIAA 29 IND 2024
(iii) Clearance Type	Fresh EC
(iv) Category	B1
(v) Project/Activity Included Schedule No.	3(a) Metallurgical Industries (ferrous and non ferrous)
(vii) Name of Project	Proposed installation of “Cold Rolled Grain Oriented” (CRGO) Steel Plant - 216000 TPA by JSW- JFE Electrical Steel Private Limited at KIADB Industrial area- Phase-II, Kuduthini Village in Ballari District of Karnataka State
(viii) Name of Company/Organization	JSW- JFE Electrical Steel Private Limited
(ix) Location of Project (District, State)	BALLARI, KARNATAKA
(x) Issuing Authority	SEIAA
(xi) Applicability of General Conditions as per EIA Notification, 2006	No

Plot/Survey Khasra Nos.: ,

3. In view of the particulars given in the Para 1 above, the project proposal interalia including Form-1(Part A, B and C)/ EIA & EMP Reports were submitted to the SEIAA for an appraisal by the SEIAA under the provision of EIA notification 2006 and its subsequent amendments.
4. The above-mentioned proposal has been considered by SEIAA in the meeting held on 20/01/2025. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed from the PARIVESH portal by scanning the QR Code above or through the following web link click here.
5. The brief about configuration of products and byproducts as submitted by the Project Proponent in orm-1 (Part A, B and C)/ EIA & EMP Reports / presented during SEIAA are annexed to this EC as Annexure (1).
6. The SEIAA, in its meeting held on , based on information submitted viz: Form 1 (Part A, B and C), EIA/EMP report etc & clarifications provided by the project proponent and after detailed deliberations on all technical aspects and public hearing issues and compliance thereto furnished by the Project Proponent, recommended the proposal for grant of Environment Clearance under the provision of EIA Notification, 2006 and as amended thereof subject to compliance of Specific and Standard EC conditions as given in this letter.
7. The SEIAA has examined the proposal in accordance with the provisions contained in the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and based on the recommendations of the State Environment Impact AssessmentAuthority(SEIAA) Appraisal Committee hereby accords Environment Clearance to the instant proposal of M/s. Dr Satish Kumar Mishra under the provisions of EIA Notification, 2006 and as amended thereof subject to compliance of the Specific and Standard EC conditions as given in Annexure (1)
8. The Ministry reserves the right to stipulate additional conditions, if found necessary.
9. The Environmental Clearance to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.
10. The Project Proponent is under obligation to implement commitments made in the Environment Management Plan, which forms part of this EC.
11. Validity of EC becomes perpetual subject to the start of production operations by the project or activity on or before the [Project_Date] In case the project proponent fails to start the production operations within the EC validity date, application for EC validity extension shall be submitted to the regulatory authority as per the provision contained in the Para 9.0 of EIA notification, 2006 and its amendment.
12. General Instructions:

    (a) The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC/SEIAA website where it is displayed.
    (b) 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.
    (c) The project proponent shall have a well laid down environmental policy duly approved by the Board of Directors (in case of Company) or competent authority, duly prescribing 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.
    (d) Action plan for implementing EMP and environmental conditions along with responsibility matrix of the project proponent (during construction phase) and authorized entity mandated with compliance of conditions (during perational phase) shall be prepared. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Six monthly progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.
    (e) 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.
    (f) 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.
    (g) 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.

13. This issues with the approval of the Competent Authority

Copy To

1. The Secretary, Ministry of Environment, Forests and Climate Change, Indira, Paryavaran Bhavan, Jor Bagh Road, Aliganj, New Delhi – 110 003,
2. The Member Secretary, Karnataka State Pollution Control Board, Bengaluru,
3. The APCCF, Regional Office, Ministry of Environment & Forests (SZ), Kendriya Sadan, IV Floor, E & F wings, 17th Main Road, Koramangala II Block, Bengaluru –560 034,
4. The Director, Department of Mines and Geology, Khanija Bhavan, Race course road,
Bangalore – 560 001
5. Guard File,

Annexure 1

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

1. 1

S. No	EC Conditions
1.1	1. To provide thick 5 row green belt all along the boundary and to grow & maintain minimum of 71,825 trees. 2. No groundwater shall be used during operation phase. 3. Air & Noise Pollution prevention measures to be adopted so that, no complaint from nearby habitat. 4. First priority to be given to local employment and comply to SarojiniMahishi report. 5. To utilize complete roof area for solar power generation. 6. To provide roof top rainwater collection structure of capacity of 2,09,726 cum & 5 deep recharge wells. 7. The project proponents design and build with suitable buffer from water bodies / drains& set back as per the local Planning Authority Byelaws and also manage the internal/external traffic without causing the inconvenience. 8. Corporate Environmental Responsibility (CER) should be a part of EMP cost, the CER shall be specific activity, time bound and should support the environment in compliance to the office memorandum dated 1st May 2018 (F.No. 22-65/2017-IA-III) and subsequent OM dated 30th September 2020, 20th October 2020 and 25th February 2021. The CER shall propose and submit as per the undertaking and template manual submitted. 9. The plant must install adequate air pollution control equipment on all significant emission sources to ensure emissions meet national regulatory standards. 10. To control dust, particulate matter, SO_2, NOx etc. install a combination of common APCDs include cyclones with Bag filters / fabric filters, Electrostatic precipitators (ESPs), Wet and dry scrubbers. 11. Continuous Stack Emission Monitoring Systems (CEMS)24×7 must be installed on all major stacks and vent points to measure key pollutants and Online CEMS data must be hooked to CPCB/SPCB as per standards. 12. Ambient Air Quality Monitoring (AAQM). The plant must set up a network of ambient air quality monitoring stations within the plant boundary and in downwind / sensitive receptor locations, to continuously monitor parameters such as PM10, PM2.5, SO_2, NOx and other critical pollutants. 13. Monitoring results must be submitted regularly to MoEF&CC, CPCB and the KSPCB, and also publicly disclosed through company website.

S. No	EC Conditions
	14. Materials Handling of Fugitive Emissions from stockpiles, transport, loading/unloading must be controlled and minimized throughEnclosed conveyors and storage areas should be water sprinklers / dust suppression systems covered transfer points and paved roads 15. Install a 24×7 Continuous Effluent Monitoring System (CEMS) at the final discharge point.This system must monitor key parameters (such as pH, TSS, BOD, COD, oil & grease, heavy metals etc.) and be connected online to SPCB/CPCB servers as prescribed by the Environment (Protection) Rules, 1986. 16. Monitoring of groundwater quality should be done at least twice a year (pre-monsoon & post-monsoon). Monitoring should cover sufficient sampling locations in and around the plant using piezometers/sampling wellsand reports submitted to KSPCB/CPCB and MoEF&CC Regional Office. 17. The project must be designed and operated on a Zero Liquid Discharge (ZLD) principle (i.e., no untreated effluent discharge outside plant premises). 18. Domestic wastewater must be treated in a Sewage Treatment Plant (STP), and treated water shall be reused for green belt development or other secondary uses. 19. Plant must develop garland drains, catch pits and runoff collection systems around all stockyards/handling areas to prevent polluted surface runoff from entering external water bodies.

Annexure 2

Details of the Project

<table>
<tr><th>S. No.</th><th>Particulars</th><th>Details</th></tr>
<tr><td>a.</td><td>Details of the Project</td><td>Proposed installation of “Cold Rolled Grain Oriented” (CRGO) Steel Plant - 216000 TPA by JSW- JFE Electrical Steel Private Limited at KIADB Industrial area- Phase-II, Kuduthini Village in Ballari District of Karnataka State</td></tr>
<tr><td>b.</td><td>Latitude and Longitude of the project site</td><td>15.2021, 76.6574</td></tr>
<tr><td>c.</td><td>Land Requirement (in Ha) of the project or activity</td><td>
<table>
<tr><th>Nature of Land involved</th><th>Area in Ha</th></tr>
<tr><td>Non-Forest Land (A)</td><td>80.9</td></tr>
<tr><td>Forest Land (B)</td><td>0</td></tr>
<tr><td>Total Land (A+B)</td><td>80.9</td></tr>
</table>
</td></tr>
<tr><td>d.</td><td>Date of Public Consultation</td><td>Public consultation for the project was held on 2025-09-17</td></tr>
<tr><td>e.</td><td>Rehabilitation and Resettlement (R&R) involvement</td><td>NO</td></tr>
</table>

S. No.	Particulars	Details
f.	Project Cost (in lacs)	1189000
g.	EMP Cost (in lacs)	35178
h.	Employment Details	2500

Details of Products & By-products

Name of the product /By-product	Product / By-product	Quantity	Unit	Mode of Transport / Transmission	Remarks (eg. CAS number)
Cold Rolled Grain Oriented (CRGO) Electrical Steel	Product	216000	Tons per Annum (TPA)	Combination of two or three modes	

No. SEIAA 29 IND 2024

To,

M/s JSW – JFE Electrical Steel Private Limited
5th Floor, JSW Centre,
BandraKurla Complex,
Mumbai 400 051, India

Sir,

Sub: Proposed Installation of Greenfield "Cold Rolled Grain Oriented"(CRGO) Steel Plant of capacity 216000 TPA at KIADB Industrial Area - Phase-II, Kuduthini Village, Taluk – Ballari, District Ballari of Karnataka State by M/s JSW – JFE Electrical Steel Private Limited - Issue of Environmental Clearance – Reg.

* * * * *

This has reference to your online application dated 14.11.2025 bearing proposal No. SIA/KA/IND1/555540/2025 addressed to SEIAA, Karnataka and subsequent letters addressed to SEIAA/SEAC Karnataka furnishing further information seeking prior Environmental Clearance for the above project under the EIA Notification, 2006. The proposal has been appraised as per the procedure prescribed in the provisions of the EIA Notification, 2006 on the basis of the mandatory documents enclosed with the application viz., the Form 1, Form 1A, conceptual plans and the additional clarifications furnished in response to the observations of the SEAC, Karnataka.

The project proposal has been considered by SEAC during the meeting held on 29th October 2024 and recommended to SEIAA for issue of standard ToRs. The Authority during the meeting held on 16th December 2024 decided to issue ToR as recommended by SEAC for conducting Environment Impact Assessment Study in accordance with EIA Notification, 2006. Accordingly the ToR was issued on 30.01.2025. The EIA has been conducted by Anacon Laboratories Pvt. Ltd., Nagpur, 60, Bajiprabhu Nagar, Near Ram Nagar, Nagpur, Maharashtra-440033 who is a NABET Accredited consultant vide No. NABET/EIA/2326/RA 0304_Rev.01. Public Hearing was held on 17.09.2025. The Final Environmental Impact Assessment report has been submitted on 29.10.2025. SEAC has recommended the following parameters for issue of Environmental Clearance in their meeting held on **30th & 31st December 2025 and 1st January 2026.**

Sl. No	Particulars	Information Provided by PP
1.	**New**/ Expansion/ Modification/	New
2.	Plot Area (Sqm)	8,09,400
3.	Built Up area (Sqm)	3,74,400

<table>
<tr><th>Sl. No</th><th>Particulars</th><th>Information Provided by PP</th></tr>
<tr><td>4.</td><td>Component of developments</td><td>
<table>
<tr><th>Sr No</th><th>Line</th><th>Capacity</th></tr>
<tr><td>1</td><td>Annealing Pickling Line</td><td>270000 TPA</td></tr>
<tr><td>2</td><td>Single Reversible Mill</td><td>260040 TPA</td></tr>
<tr><td>3</td><td>Domain Refining Line</td><td>120010 TPA</td></tr>
<tr><td>4</td><td>Decarburization Mill</td><td>243800 TPA</td></tr>
<tr><td>5</td><td>Rotary Annealing Line</td><td>233300 TPA</td></tr>
<tr><td>6</td><td>Flattening Coating Line</td><td>233300 TPA</td></tr>
<tr><td>7</td><td>Trimming and Welding Line</td><td>225800 TPA</td></tr>
<tr><td>8</td><td>Packing line</td><td>216000 TPA</td></tr>
</table>
</td></tr>
<tr><td>5.</td><td colspan="2">Details of Land Use (Sqm)</td></tr>
<tr><td></td><td>
<table>
<tr><td>a.</td><td>Ground Coverage Area</td></tr>
<tr><td>b.</td><td>Kharab Land</td></tr>
<tr><td>c.</td><td>Internal Roads</td></tr>
<tr><td>d.</td><td>Paved area</td></tr>
<tr><td>e.</td><td>Parking</td></tr>
<tr><td>f.</td><td>Green belt</td></tr>
<tr><td>g.</td><td>Others Specify</td></tr>
<tr><td>h.</td><td>Total</td></tr>
</table>
</td><td>
<table>
<tr><th>Sl. No.</th><th>Proposed Plant Units</th><th>Area in Sqm</th></tr>
<tr><td>1</td><td>Process area</td><td>374300</td></tr>
<tr><td>2</td><td>Truck parking and other parking areas</td><td>5400</td></tr>
<tr><td>3</td><td>Canteen and toilet area</td><td>5100</td></tr>
<tr><td>4</td><td>Road and Drains</td><td>151400</td></tr>
<tr><td>5</td><td>Greenbelt area</td><td>267100</td></tr>
<tr><td>6</td><td>Rain water harvesting cum Recharge Pit</td><td>2500</td></tr>
<tr><td>7</td><td>Weighbridge</td><td>3600</td></tr>
<tr><td></td><td>TOTAL</td><td>809400Sqm</td></tr>
</table>
80.94 hectares
</td></tr>
<tr><td>6.</td><td>Products and By- Products with quantity</td><td>Product : 216000 TPA of CRGO Electrical Steel</td></tr>
<tr><td>7.</td><td>Raw material and Fuel with quantity and their source</td><td>
<table>
<tr><th>Sl. No</th><th>Raw Material</th><th>Quantity</th><th>Source</th></tr>
<tr><td>1</td><td>Hot Rolled Coils(TPA)</td><td>270000</td><td>JSW Steel Limited</td></tr>
<tr><td colspan="4">FUEL</td></tr>
<tr><td>1</td><td>RLNG (Nm3/hr)</td><td>23535</td><td>GAIL Limited</td></tr>
<tr><td>2</td><td>Nitrogen (Nm3/hr)</td><td>22,315</td><td>In house</td></tr>
<tr><td>3</td><td>Argon (Nm3/hr)</td><td>175</td><td>JSW Steel Limited</td></tr>
<tr><td>4</td><td>Hydrogen (Nm3/hr)</td><td>3491</td><td>In house</td></tr>
<tr><td>5</td><td>Mixed Gas (Nm3/hr)</td><td>1,14,495</td><td>JSW Steel Limited</td></tr>
<tr><td>6</td><td>Compressed air (Nm3/hr)</td><td>50850</td><td>In house</td></tr>
<tr><td>7</td><td>Steam (TPH)</td><td>59</td><td>In house</td></tr>
<tr><td>8</td><td>Urea (TPA)</td><td>462</td><td>From Market on current prices</td></tr>
<tr><td>9</td><td>Electric Power (MW)</td><td>202.9</td><td>JSW Energy /Grid</td></tr>
</table>
</td></tr>
</table>

Sl. No	Particulars		Information Provided by PP
8.	Mode of transportation of Raw material/ Fuel and storage facility		By Road, Railways and Pipeline
9.	Transportation and storage facility for coal / Bio-fuel in case of thermal power plant		Not Applicable
10.	Fly ash production, storage and disposal details whereas coal is used as fuel		Not Applicable
11.	WATER		
	I.	Construction Phase	
	a.	Source of water	JSW Steel Limited
	b.	Quantity of water for Construction in KLD	500 KLD
	c.	Quantity of water for Domestic Purpose in KLD	125 KLD
	d.	Waste water generation in KLD	
	e.	Treatment facility proposed and scheme of disposal of treated water	
	II	Operational Phase	
	a.	Source of water	JSW Steel Limited
	b.	Total Requirement of Water in KLD	4944
	c.	Requirement of water for industrial purpose / production in KLD	4888
	d.	Requirement of water for domestic purpose in KLD	56
	e.	Waste water generation in KLD	Industrial waste water generation - 17530 Domestic wastewater generation- 50
	f.	ETP/ STP capacity	Proposed ETP Capacity : 18000 Proposed STP Capacity : 60
	g.	Technology employed for Treatment	ETP : Ultrafiltration with 3 Stage RO with Multi Effective Evaporator(MEE) STP : MBBR Technology based
	h.	Scheme of disposal of excess treated water if any	Not applicable
12.	Infrastructure for Rain water harvesting		**Rainwater Harvesting:**Rain water harvesting (Guard Pond) is proposed in 0.25 Ha. Rainwater harvesting structures will be developed to recharge groundwater sustainably. Garland drains shall be provided throughout the periphery of plant and will be connected to guard pond for water collection.
13.	Storm water management plan		**Storm water Drainage System:** A well-designed storm water management system will be provided to collect the storm water/rain water from the surface run off.

<table>
<tr><th>Sl. No</th><th colspan="2">Particulars</th><th>Information Provided by PP</th></tr>
<tr><td>14.</td><td colspan="3">Air Pollution</td></tr>
<tr><td></td><td>a.</td><td>Sources of Air pollution</td><td>The major air pollution sources from CRGO plant include annealing furnaces, pickling processes and coating line.</td></tr>
<tr><td></td><td>b.</td><td>Composition of Emissions</td><td>PM_{10}, $PM_{2.5}$, SO_X, NO_X, Acid Mists, Oil Mists</td></tr>
<tr><td></td><td>c.</td><td>Air pollution control measures proposed and technology employed</td><td>• Wet Scrubbers will be installed in the pickling line to control acid mist.
• Stack Monitoring Systems continuously measure SO_2, NO_x, and acid mistemissions.
• RLNG as Fuel will be used to minimize SO_2 and particulate emissions.
• The company will adopt the latest state of the art technology with in-builtpollution control measures.
• Continuous stack monitoring system is proposed for major stack.
• Online Ambient Air Quality Monitoring Stations will be established inconsultation with KSPCB during operation of the plant.</td></tr>
<tr><td>15.</td><td colspan="3">Noise Pollution</td></tr>
<tr><td></td><td>a.</td><td>Sources of Noise pollution</td><td>Major Sources of Noise Generation are
Annealing Pickling Line, Single Reversible Mill (SRM),Domain Refining Line (DCL), Decarburizing Line (DRL), Rotary Annealing Line (RAL), Flattening Coating Line,Trimming Line & Welding Line (TL/WL),Packing Line, Acid Regeneration Plant(ARP)</td></tr>
<tr><td></td><td>b.</td><td>Expected levels of Noise pollution in dB</td><td>The results of mathematical calculation of predicted noise levels are calculated. Resultant noise levels were calculated at various distances from project site. DHWANI model used for prediction of noise level at various receptors and contours.
Predicted Noise Level at the Noise Monitoring Locations
PREDICTED NOISE LEVELS WITH DISTANCE
<table>
<tr><th>Distance</th><th>Source Noise Level (dBA)</th><th>Calculated Noise Levels at Receptor (dBA)</th></tr>
<tr><td>100</td><td>92.8</td><td>53.6</td></tr>
<tr><td>200</td><td>92.8</td><td>47.6</td></tr>
<tr><td>300</td><td>92.8</td><td>44.1</td></tr>
<tr><td>400</td><td>92.8</td><td>41.6</td></tr>
<tr><td>500</td><td>92.8</td><td>39.6</td></tr>
<tr><td>600</td><td>92.8</td><td>38.1</td></tr>
<tr><td>700</td><td>92.8</td><td>36.7</td></tr>
<tr><td>800</td><td>92.8</td><td>35.6</td></tr>
<tr><td>900</td><td>92.8</td><td>34.5</td></tr>
<tr><td>1000</td><td>92.8</td><td>33.6</td></tr>
</table></td></tr>
<tr><td></td><td>c.</td><td>Noise pollution control</td><td>Site specific mitigation measures will be adopted at project</td></tr>
</table>

<table>
<tr><th>Sl. No</th><th colspan="2">Particulars</th><th>Information Provided by PP</th></tr>
<tr><td></td><td></td><td>measures proposed</td><td>site to attenuate noise levels to safe limits.</td></tr>
<tr><td>16.</td><td colspan="3">WASTE MANAGEMENT</td></tr>
<tr><td></td><td>I.</td><td colspan="2">Operational Phase</td></tr>
<tr><td></td><td>a.</td><td>Quantity of Solid waste generated per day and their disposal</td><td rowspan="3">TABLE 2.10: HAZARDOUS WASTE GENERATION AND ITS DISPOSAL
<table><tr><th>Waste Disposal</th><th>Generation for production of 216000 TPA</th><th>Mode of disposal</th></tr><tr><td>Oil Sludge</td><td>1920 TPA</td><td rowspan="4">The Hazardous waste generated is sent to Authorized TSDF/ Incinerator facility.</td></tr><tr><td>Ink Sludge</td><td>1440 TPA</td></tr><tr><td>Phosphate Sludge</td><td>1200 TPA</td></tr><tr><td>ETP sludge</td><td>720 TPA</td></tr><tr><td>Spent Pickling Liquor waste</td><td>5220 TPA</td><td>Treated in the Acid Recovery Plant and reused in the process</td></tr><tr><td>Etching Sludge</td><td>9720 TPA</td><td></td></tr><tr><td>Alkali Sludge</td><td>3240 TPA</td><td></td></tr><tr><td>Used Oil /Spent Oil</td><td>500 LPA</td><td>Sold to Authorized Recycler</td></tr><tr><td>Contaminated Cotton Rags</td><td>3.6 TPA</td><td>Sold to Incinerator Facility</td></tr><tr><td>Empty Barrels (No's)</td><td>15000</td><td>Sold to Authorized Recycler</td></tr><tr><td>Used Batteries</td><td>500 No's/A</td><td>Sold to Authorized Recycler</td></tr><tr><td>E-Waste</td><td>0.3 TPA</td><td>Sold to Authorized Recycler</td></tr></table>Hazardous waste containing oil, grease and other chemicals will be sent to vendor who is having govt. approval and certified procedure for proper treatment and disposal.
TABLE 2.11 SOLID WASTE GENERATION AND DISPOSAL ESTIMATES
<table><tr><th>Solid Waste</th><th>Generation (Quantity-TPA)</th><th>Mode of disposal</th></tr><tr><td>Shot Ball Dust</td><td>1,080.00</td><td rowspan="5">Non-hazardous waste from the filter press is recycled as dry cakes in steel industries' pellet plant and metal scrap will be used in JSW Steel Limited.</td></tr><tr><td>MgO Sludge</td><td>12,240.00</td></tr><tr><td>Furnace Scale</td><td>720.00</td></tr><tr><td>Iron Oxide</td><td>1,850.00</td></tr><tr><td>Metallic Scrap</td><td>54000.00</td></tr><tr><td>STP Sludge</td><td>44.00</td><td>Used as a manure for greenbelt development within the plant premises</td></tr><tr><td>Plastic Package Material</td><td>41.00</td><td>As per Plastic Waste Management Rules, 2022 & its subsequent amendments.</td></tr><tr><td>Total</td><td>69,975.00</td><td></td></tr></table></td></tr>
<tr><td></td><td>b.</td><td>Quantity of Hazardous Waste generation with source and mode of Disposal as per norms</td></tr>
<tr><td></td><td>c.</td><td>Quantity of E waste generation with source and mode of Disposal as per norms</td></tr>
<tr><td>17.</td><td colspan="3">POWER</td></tr>
<tr><td></td><td>a.</td><td>Total Power Requirement in the Operational Phase with source</td><td>202.9 MW</td></tr>
<tr><td></td><td>b.</td><td>Numbers of DG set and capacity in KVA for Standby Power Supply</td><td>06 DG SETS
(2 MW * 3 NOS
0.5 MW * 3 NOS)</td></tr>
<tr><td></td><td>c.</td><td>Details of Fuel used with purpose such as boilers, DG, Furnace, TFH, Incinerator Set etc..,</td><td>Fuel Used in DG Set : HSD</td></tr>
<tr><td></td><td>d.</td><td>Energy conservation plan and Percentage of savings including plan for utilization of solar energy as per ECBC 2007</td><td>Energy- Efficient Annealing Furnaces shall be installed to reduce fuel consumption. RLNG will be used as a fuel instead of solid fuel like coal. LED lighting and Solar power will be used in Canteen. Solar panel will be implemented at roof top.</td></tr>
<tr><td>18.</td><td colspan="3">PARKING</td></tr>
<tr><td></td><td>a.</td><td>Parking Requirement as per norms</td><td>Parking has been provided in 0.54 Hectare (5382.24 Sqm) area of project site, which is 0.70 % of the total area of the project site.</td></tr>
<tr><td></td><td>b.</td><td>Internal Road width (RoW)</td><td>Type A roads- 16 M wide
Type B roads- 7 M wide</td></tr>
<tr><td></td><td colspan="2">EMP</td><td>EMP COST:
Capital Cost : 351.78 Crores
Recurring Cost : 12.62 Crores</td></tr>
<tr><td>19.</td><td colspan="2">No of Trees</td><td>71,825 Nos</td></tr>
<tr><td>20.</td><td colspan="2">Employees</td><td>Construction phase: 2,500 persons</td></tr>
</table>

Sl. No	Particulars	Information Provided by PP
		(Direct:150, Indirect:2,350) Operation Phase: 1,250 Persons (Direct:909, Indirect:341)
21.	Project cost (Rs. In crores)	11,890 Crores

The SEIAA Karnataka in its meeting held on 27th January 2026 after due consideration of the relevant documents submitted by the project proponent and additional clarifications furnished in response to its observations and has accepted the recommendation of SEAC and has decided to accord Environmental Clearance in accordance with the provisions of Environmental Impact Assessment Notification-2006 and its subsequent amendments, subject to strict compliance of the following terms and conditions: -

Statutory compliance

i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.

ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.

iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (In case of the presence of schedule-1 species in the study area)

iv. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.

v. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.

vi. The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.

II Air quality monitoring and preservation

i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or

NABL accredited laboratories.

ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognised under Environment (Protection) Act, 1986.

iii. The project proponent shall install system to carryout 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.

iv. To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers to control particulate emissions within permissible limits (as applicable). The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.

v. Storage of raw materials, coal etc shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.

vi. National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended from time to time shall be followed.

vii. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with

III. Water quality monitoring and preservation

i. The project proponent shall provide online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises (applicable in case of the projects achieving ZLD)

ii. As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises (applicable in case of the projects achieving the ZLD).

iii. The effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the State Pollution Control Board while granting Consent under the Air/Water Act, whichever is more stringent.

iv. Total fresh water requirement shall not exceed the proposed quantity or as specified by the Committee. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.

v. Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.

vi. The Company shall harvest rainwater from the roof tops of the buildings and storm

water drains to recharge the ground water and utilize the same for different industrial operations within the plant.

vii. The DG sets shall be equipped with suitable pollution control devices and the adequate stack height so that the emissions are in conformity with the extant regulations and the guidelines in this regard.

IV. Noise monitoring and prevention

i. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.

ii. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.

iii. 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

V. Energy Conservation measures

i. The energy sources for lighting purposes shall preferably be LED based.

VI. Waste management

i. Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.

ii. Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.

iii. The company shall undertake waste minimization measures as below:-

a. Metering and control of quantities of active ingredients to minimize waste.

b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.

c. Use of automated filling to minimize spillage.

d. Use of Close Feed system into batch reactors.

e. Venting equipment through vapour recovery system.

f. Use of high pressure hoses for equipment clearing to reduce wastewater generation

VII. Green Belt

i. The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.

VIII. Safety, Public hearing and Human health issues

i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented

ii. The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.

iii. The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.

iv. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.

v. 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.

vi. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

vii. There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places

IX. Corporate Environment Responsibility

i. The project proponent shall comply with provision contained in OM vide F.No. 22-65/2017-IA.III dated 20th October 2020, of the Ministry of Environment, Forest and Climate Change as applicable, regarding Corporate Environment Responsibility and shall execute the action plan of Educational Infrastructure (Smart classrooms, scholarships, school repairs) At the villages: Kuduthini, Haraginadoni, Timmalapura Provision of scholarships and grants to Topper and children of farmers (especially land owner) for pursuing education related to the industry and Higher Education, Sanitation Facilities (Toilets, waste management systems) At the villages: Kuduthini, Toranagallu, Health Camps & Mobile Clinics At the villages: Kuduthini, Toranagallu, Daroji, Haraginadoni, Timmalapura, Sultanpura. Organize a minimum of 3 health camps annually Organize a minimum of 3 health camps annually, Road Infrastructure (Village approach roads, internal roads) Kuduthini, Antapura, Yelubinchi, Anthapura. Drinking Water Supply (RO plants, bore wells, water tanks) At the villages: Kuduthini, Venivirapura, Belagalu, Chikkanthapura Community Centers / Farmer Support Hubs Farmers Training and Facilitation Centre to improve crop quality and production Employment Skill Development Programs (ITI tie-ups, vocational training) at the villages: Kuduthini, Sultanpura, Timmalapura. Environmental Awareness & Plantation Drives at All surrounding villages. Solar Street Lighting at the villages Kuduthini, Sultanpura, Timmalapura, Daroji, Anthapura Identification and survey of water bodies, desilting, cleaning, and strengthening of embankments, Peripheral plantation, creation of rainwater harvesting/recharge pits, and community awareness programs, Impact Assessment and hiring of vehicle for monitoring and implementation of activities Maintenance, water quality monitoring, construction of small check dams, and impact assessment with handing over to local body as resolved in 281st SEIAA meeting. Contact details and Email Ids of Beneficiary in this regard shall be submitted to SEIAA while furnishing the Half Year Compliance report.

ii. 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.

iii. 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.

iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.

v. Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

X. Miscellaneous

i. 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.

ii. 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.

iii. 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.

iv. 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.

v. 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.

vi. "The HYCRs with its contents of a covering letter, compliance reports, and environmental monitoring data has to be in PDF format merged into a single

document. The email should clearly mention the name of project, EC No & date, period of submission and to be sent to the Regional Office of MOEF&CC by email only at email ID rosz.bng-mefcc@gov.in Hard copy of HYCRs shall not be acceptable".

vii. 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.

viii. 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.

ix. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.

x. 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.

xi. No further expansion or modifications in the plant shall be carried out without prior approval of this Authority or the Ministry of Environment, Forests and Climate Change (MoEF&CC).

xii. 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.

xiii. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

xiv. The SEIAA reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

xv. The Regional Office of MoEF&CC 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.

xvi. 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.

xvii. 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 Condition

1. The PP shall provide thick 5 row green belt all along the boundary and to grow & maintain minimum of 71,825 trees.
2. No groundwater shall be used during operation phase.
3. Air & Noise Pollution prevention measures to be adopted so that, no complaint from nearby habitat.
4. First priority to be given to local employment and comply to SarojiniMahishi report.
5. The PP shall utilize complete roof area for solar power generation.
6. The PP shall provide roof top rainwater collection structure of capacity of 2,09,726 cum & 5 deep recharge wells.
7. The project proponents design and build with suitable buffer from water bodies / drains& set back as per the local Planning Authority Byelaws and also manage the internal/external traffic without causing the inconvenience.
8. Corporate Environmental Responsibility (CER) should be a part of EMP cost, the CER shall be specific activity, time bound and should support the environment in compliance to the office memorandum dated 1st May 2018 (F.No. 22-65/2017-IA-III) and subsequent OM dated 30th September 2020, 20th October 2020 and 25th February 2021. The CER shall propose and submit as per the undertaking and template manual submitted.
9. The plant must install adequate air pollution control equipment on all significant emission sources to ensure emissions meet national regulatory standards.
10. To control dust, particulate matter, SO_2, NOx etc. install a combination of common APCDs include cyclones with Bag filters / fabric filters, Electrostatic precipitators (ESPs), Wet and dry scrubbers.
11. Continuous Stack Emission Monitoring Systems (CEMS)24×7 must be installed on all major stacks and vent points to measure key pollutants and Online CEMS data must be hooked to CPCB/SPCB as per standards.
12. Ambient Air Quality Monitoring (AAQM). The plant must set up a network of ambient air quality monitoring stations within the plant boundary and in downwind / sensitive receptor locations, to continuously monitor parameters such as PM10, PM2.5, SO_2, NOx and other critical pollutants.
13. Monitoring results must be submitted regularly to MoEF&CC, CPCB and the KSPCB, and also publicly disclosed through company website.
14. Materials Handling of Fugitive Emissions from stockpiles, transport, loading/unloading must be controlled and minimized throughEnclosed conveyors and storage areas should be water sprinklers / dust suppression systems covered transfer points and paved roads
15. Install a 24×7 Continuous Effluent Monitoring System (CEMS) at the final discharge point.This system must monitor key parameters (such as pH, TSS, BOD, COD, oil & grease, heavy metals etc.) and be connected online to SPCB/CPCB servers as prescribed by the Environment (Protection) Rules, 1986.
16. Monitoring of groundwater quality should be done at least twice a year (pre-monsoon & post-monsoon). Monitoring should cover sufficient sampling locations in and around the plant using piezometers/sampling wellsand reports submitted to KSPCB/CPCB and MoEF&CC Regional Office.

17. The project must be designed and operated on a Zero Liquid Discharge (ZLD) principle (i.e., no untreated effluent discharge outside plant premises).
18. Domestic wastewater must be treated in a Sewage Treatment Plant (STP), and treated water shall be reused for green belt development or other secondary uses.
19. Plant must develop garland drains, catch pits and runoff collection systems around all stockyards/handling areas to prevent polluted surface runoff from entering external water bodies.

Yours faithfully,

(**Srinivasulu**)
Member Secretary,
SEIAA, Karnataka.

Copy to:

1. The Secretary, Ministry of Environment, Forests and Climate Change, Indira Paryavaran Bhavan, Jor Bagh Road, Aliganj, New Delhi – 110 003.
2. The Commissioner, Bruhat Bengaluru Mahanagara Palike (BBMP), N.R. Square, Bangalore – 560 002.
3. The Member Secretary, Karnataka State Pollution Control Board, Bengaluru.
4. The APCCF, Regional Office, Ministry of Environment & Forests (SZ), Kendriya Sadan, IV Floor, E & F wings, 17th Main Road, Koramangala II Block, Bengaluru – 560 034.
5. Guard File.