



State Level Environment Impact Assessment Authority, Jharkhand

Nursery Complex, Near Dhurwa Bus Stand, P.O+P.S-Dhurwa, Ranchi, Jharkhand-834 004

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Letter No.-EC/SEIAA/2022-23/2592/2022

Ranchi, Date:

To: **M/s Ramkripal Steel Pvt. Ltd.,
Sri Vedant Singh (Director),
At – Gumo, Ward No. 19,
Thana – Telaiya, Pargana - Gumo,
District – Koderma, Jharkhand – 825409.**

Sub: Prescribing of ToR to **“Proposed production capacity of the M.S. billets is ~500 MT/day (1,50,000 TPA) ~500 MT/day (1,50,000 TPA)rolling mill of (using CCM) ~500 TPD. & Slag crushing unit ~10 TPH of M/s. Ramkripal Steels Pvt. Ltd. at Village : Barwadih, Tehsil : Koderma, Dist. : Koderma, Jharkhand” (Proposal No. : SIA/JH/IND/76808/2022) - regarding.**

Ref: Your application no.- Nil dated – 12.05.2022.

Sir,

It is in reference to the project **“Operation of current plant of capacity 415,000 TPA and proposed phase-wise expansion to 1015,000 TPA capacity of Electrolytic Tinplate and Tin-Free Steel material including 28,000 TPA Printed and Lacquered sheets of M/s The Tinplate Company of India Limited at Golmuri Works, Jamshedpur, East Singhbhum, Jharkhand”** submitted by you for seeking Terms of Reference (ToR).

This is a expansion project which has been taken for appraisal on 12.05.2022.

The proposal was considered by the committee to determine the “Terms of Reference (TOR)” for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA Notification, 2006 and amendments thereafter. For this purpose the Project Proponent has submitted the prescribed Form - I & PFR the proposed project falls under item 3 (a) Metallurgical Industries (Ferrous & Non-Ferrous) as per EIA Notification, 2006.

Project background :

S. No	Parameters	Description
1	Identification of project	Project falls under Metallurgical Industries (secondary metallurgical processing) Item 3(a) of the schedule of EIA notification of Sept 14, 2006 issued by MOEF & CC.
2	Project Proponent	M/s. Ramkripal Steels Pvt. Ltd.
3	Brief description of nature of the project	The unit is for manufacturing of Bars & Rods using
4	Salient Features of the Project	
4.1	Proposed production capacity	Proposed production capacity is ~500 MT/day (1,50,000 TPA) of M.S. billets and ~500 MT/day (1,50,000 TPA) rolling mill of (using CCM ~500 TPD). & Slag crushing unit ~10 TPH.
4.2	Total Plot Area	Total Plot Area –7.40 Acre Khata No. 27,57, 58, 65, 100,113, 119, 122 Khasra No. – 130, 134, 135, 136, 137,138, 139, 141, 144, 148
4.3	Location	Jhumri Telaiya, Jharkhand (India)
4.4	Water requirement	Water is only required to meet the process cooling water and its make-up (~80 m ³ /day) and domestic requirement (~20 m ³ /day). The cooling water will be normal raw water for rolling mill activities and RO treated water for induction furnaces.
4.5	Source of water	Borewell
4.6	Wastewater	The domestic water consumption will result in generation of ~12 m ³ /day of domestic wastewater. The wastewaters will be treated and entirely reused.
4.7	Man Power	Around 300 person
4.8	Electricity/Power requirement	The electrical power requirement will increase to ~45.5 MVA. One DG set of 500 kVA will be installed (as power back-up).
4.9	Alternative site	The proposed addition will be established in the existing plant

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S. No	Parameters	Description
		premises only.
4.10	Land form, Land use and land ownership	Private land, owned by M/s. Ramkripal Steels Pvt. Ltd.
4.11	Project Cost	94.00 Crore

Site Coordinate

Corners	Latitude	Longitude
Corner –I	24°25'37.660"N	85°29'30.331"E
Corner –II	24°26'39.810"N	85°29'32.512"E
Corner –III	24°26'40.130"N	85°29'30.603"E
Corner –IV	24°25'45.359"N	85°29'39.056"E

Plant obtained CTE from Jharkhand State Pollution Control Board (JSPCB) vide letter no JSPCB/HO/RNC/CTE-9340615/2021/188 for the establishment of production of billets of capacity 26400 TPA and Slag crushing unit of 4800 TPA dated on 2021.09.05.

Sl. No	Plant Facilities	Proposed production details
1.	Induction Furnace	Induction furnaces (2 x 15 Tons + 1 x 20 Tons) 1,50,000 TPA
2.	Rolling Mill	500 TPD
3.	Re-heating Furnace	1x30 TPH (max. 99,000 TPA)
4.	Slag Crusher	1x10TPH (max.33,000 TPA)

Raw Material Requirement :

Raw Materials	Total Raw materials required After Expansion
Billets (Total production: 500 TPD)	
Sponge Iron, Pig iron/MS scrap	600 MT/day

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Ingot/billet	30 MT/day
Ferro Alloys (SiMn/FeSi)	10 MT/day
Metal scrap from in house metal extraction	10 MT/day
Total Raw Materials	650 TPD
Rolling Mill – TMT Bars/Rods (Total production: 500 TPD)	
Hot Billets/M.S. Billets	40 TPD
Coal/Furnace Oil for re-heating furnace	70 Kg/ton

Breakup of land use for the proposed expansion is as follows :

SL No	TYPE OF USE	AREA (sq. mt)
1	Production & Allied facilities	13937
3	Entrance, Roads and Pavements	4300
4	Storage yard, vacant area etc.	725.69
5	Labour quarter	1000
6	Green Belt	9984.01
	TOTAL	29946.7

- Approx 1.40 Acre of land within the site is having existing tree plantation which is considered as green belt for the proposed project
- All the existing trees will be retained at site and no tree will be cut without having permission from the competent authority

Air Pollution Control Details

Name of Units	Name of APCD	Stack Height (mtr)	Emission Design
Induction Furnace	Fume extraction with Bag	30	<50mg/Nm ³

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	filter)		
Hot Rolling Mill	Dust extraction with Bag filter)	30	<50mg/Nm3
Reheating Furnace (Standby) (Furnace oil /PNG as fuel)	Wet scrubber	30	<50mg/Nm3
Slag crushing	Dust extraction system	30	<100mg/Nm3
DG Set	Stack	10	<150 mg/Nm3

Industrial Solid waste and Hazardous waste

Units	Solid Wastes	Qty TPA	In	Disposal practice
Induction Furnace	Slag	3900		In-house metal recovery in slag crusher and supplied outside for further reuse in construction work.
Bag Filter Dust from process	Dust from process	600		Partly recycled (metal content). Rest supplied outside for further reuse in construction work and Low land filling
Rolling Mill	End cuttings & Mill Scale	300		Recycled in-house along with scrap in the induction furnace.
Re-heating furnace	Ash & Bag filter dust	94.5		Supplied to Fly Ash block manufacturers. *No generation if furnace oil is used.

There is no hazardous waste from the plant except for used oil (approx. 0.2 – 0.3 KL/Year) from equipment, which will be stored properly as per norms and is saleable to the registered recyclers in the market.

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1	DFO Forest Distance	:	DFO, Koderma Forest Division vide letter no. 3092, dated 24.12.2020 certified that the distance of reserved / protected forest is 260 m from proposed project site.
2	DFO Wild Life	:	DFO, Wildlife Hazaribagh Division vide letter no. 156, dated 27.01.2021 certified that the National Park & Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	CO certificate	:	The CO, Koderma vide letter no. 59, dated 07.05.2022 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyon & Register II.

During the presentation the following undertakings were sought:

- i. Undertaking affirming that:
 - a. Without the permission of competent authority no tree cutting will be done.
 - b. No ground water will be used without obtaining permission from competent authority.

The PAs have submitted the above required undertakings.

Baseline data is being generated from 15th March, 2022 to 15th June, 2022.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 10, 11, 12, 13 & 14.05.2022, the Committee recommends for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study and alongwith the following specific conditions as recommended by SEAC:

- i. **TCLP test report of the slag from existing plant to be provided in the EIA / EMP report.**

SEAC, Jharkhand has suggested the ToRs in its 94th meeting dated 10th, 11th, 12th, 13th and 14th May, 2022 and SEIAA, Jharkhand has approved the ToRs in its 95th meeting held on 14th, 15th & 16th June, 2022.

The TORs prescribed for undertaking detailed EIA study are as follows:

A. Standard Terms of Reference

1. Executive Summary

2. Introduction

- i. Details of the EIA Consultant including NABET accreditation.
- ii. Information about the project proponent.
- iii. Importance and benefits of the project.

3. Project Description

- i. Cost of project and time of completion.
- ii. Products with capacities for the proposed project.
- iii. If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.
- iv. List of raw materials required and their source along with mode of transportation.
- v. Other chemicals and materials required with quantities and storage capacities
- vi. Details of Emission, effluents, hazardous waste generation and their management.
- vii. Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract)
- viii. Process description along with major equipments and machineries, process flow sheet (quantative) from raw material to products to be provided.
- ix. Hazard identification and details of proposed safety systems.
- x. Expansion/modernization proposals:
 - a. Copy of all the Environmental Clearance(s) including Amendments thereto obtained for the project from MOEF/SEIAA shall be attached as an Annexure. A certified copy of the latest Monitoring Report of the Regional Office of the Ministry of Environment and Forests as per circular dated 30th May, 2012 on the status of compliance of conditions stipulated in all the existing environmental clearances including Amendments shall be provided. In addition, status of compliance of Consent to Operate for the ongoing / existing operation of the project from SPCB shall be attached with the EIA-EMP report.
 - b. In case the existing project has not obtained environmental clearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification, 2006 shall be provided. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 2006, CTE and CTO of FY 2005-2006) obtained from the SPCB shall be submitted. Further, compliance report to the conditions of consents from the SPCB shall be submitted.

4. Site Details

- i. Location of the project site covering village, Taluka/Tehsil, District and State. Justification for selecting the site, whether other sites were considered.
- ii. A toposheet of the study area of radius of 10km and site location on 1:50,000/1:25,000 scale on an A3/A2 sheet. (including all eco-sensitive areas and environmentally sensitive places).
- iii. Details w.r.t. option analysis for selection of site
- iv. Co-ordinates (lat-long) of all four corners of the site. .
- v. Google map-Earth downloaded of the project site.

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- vi. Layout maps indicating existing unit as well as proposed unit indicating storage area, plant area, greenbelt area, utilities etc. If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.
- vii. Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.
- viii. Landuse break-up of total land of the project site (identified and acquired), government/ private - agricultural, forest, wasteland, water bodies, settlements, etc shall be included. (not required for industrial area)
- ix. A list of major industries with name and type within study area (10km radius) shall be incorporated. Land use details of the study area
- x. Geological features and Geo-hydrological status of the study area shall be included.
- xi. Details of Drainage of the project upto 5km radius of study area. If the site is within 1 km radius of any major river, peak and lean season river discharge as well as flood occurrence frequency based on peak rainfall data of the past 30 years. Details of Flood Level of the project site and maximum Flood Level of the river shall also be provided. (mega green field projects)
- xii. Status of acquisition of land. If acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.
- xiii. R&R details in respect of land in line with state Government policy.

5. Forest and Wildlife related issues (if applicable):

- i. Permission and approval for the use of forest land (forestry clearance), if any, and recommendations of the State Forest Department. (if applicable).
- ii. Landuse map based on High resolution satellite imagery (GPS) of the proposed site delineating the forestland (in case of projects involving forest land more than 40 ha)
- iii. Status of Application submitted for obtaining the stage I forestry clearance along with latest status shall be submitted.
- iv. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-à-vis the project location and the recommendations or comments of the Chief Wildlife Warden-thereon
- v. Wildlife Conservation Plan duly authenticated by the Chief Wildlife Warden of the State Government for conservation of Schedule I fauna, if any exists in the study area
- vi. Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife.

6. Environmental Status:

- i. Determination of atmospheric inversion level at the project site and site-specific micro- meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.





- ii. AAQ data (except monsoon) at 8 locations for PM10, PM2.5, SO2, NOX, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based CPCB guidelines and take into account the pre-dominant wind direction, population zone and sensitive receptors including reserved forests.
- iii. Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAQQM Notification of Nov. 2009 along with - min., max., average and 98% values for each of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report.
- iv. Surface water quality of nearby River (100m upstream and downstream of discharge point) and other surface drains at eight locations as per CPCB/MoEF & CC guidelines.
- v. Whether the site falls near to polluted stretch of river identified by the CPCB/MoEF & CC, if yes give details.
- vi. Ground water monitoring at minimum at 8 locations shall be included.
- vii. Noise levels monitoring at 8 locations within the study area.
- viii. Soil Characteristic as per CPCB guidelines.
- ix. Traffic study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, parking arrangement etc.
- x. Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. If Schedule- I fauna are found within the study area, a Wildlife Conservation Plan shall be prepared and furnished.
- xi. Socio-economic status of the study area.

7. Impact and Environment Management Plan:

- i. Assessment of ground level concentration of pollutants from the stack emission based on site-specific meteorological features. In case the project is located on a hilly terrain, the AQIP Modelling shall be done using inputs of the specific terrain characteristics for determining the potential impacts of the project on the AAQ. Cumulative impact of all sources of emissions (including transportation) on the AAQ of the area shall be assessed. Details of the model used and the input data used for modelling shall also be provided. The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any.
- ii. Water Quality modelling - in case of discharge in water body
- iii. Impact of the transport of the raw materials and end products on the surrounding environment shall be assessed and provided. In this regard, options for transport of raw materials and finished products and wastes (large quantities) by rail or rail-cum road transport or conveyor- cum-rail transport shall be examined.



- iv. A note on treatment of wastewater from different plant operations, extent recycled and reused for different purposes shall be included. Complete scheme of effluent treatment. Characteristics of untreated and treated effluent to meet the prescribed standards of discharge under E(P) Rules.
- v. Details of stack emission and action plan for control of emissions to meet standards.
- vi. Measures for fugitive emission control.
- vii. Details of hazardous waste generation and their storage, utilization and management. Copies of MOU regarding utilization of solid and hazardous waste in cement plant shall also be included. EMP shall include the concept of waste-minimization, recycle / reuse / recover techniques, Energy conservation, and natural resource conservation.
- viii. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 2009. A detailed plan of action shall be provided.
- ix. Action plan for the green belt development plan in 33 % area i.e. land with not less than 1,500 trees per ha. Giving details of species, width of plantation, planning schedule etc. shall be included. The green belt shall be around the project boundary and a scheme for greening of the roads used for the project shall also be incorporated.
- x. Action plan for rainwater harvesting measures at plant site shall be submitted to harvest rainwater from the roof tops and storm water drains to recharge the ground water and also to use for the various activities at the project site to conserve fresh water and reduce the water requirement from other sources.
- xi. Total capital cost and recurring cost/annum for environmental pollution control measures shall be included.
- xii. Action plan for post-project environmental monitoring shall be submitted.
- xiii. Onsite and Offsite Disaster (natural and Man-made) Preparedness and Emergency Management Plan including Risk Assessment and damage control. Disaster management plan should be linked with District Disaster Management Plan.

8. Occupational health:

- i. Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers.
- ii. Details of exposure specific health status evaluation of worker. If the workers' health is being evaluated by pre designed format, chest x rays, Audiometry, Spirometry, Vision testing (Far & Near vision, colour vision and any other ocular defect) ECG. during pre placement and periodical examinations give the details of the same. Details regarding last month analyzed data of above mentioned parameters as per age, sex, duration of exposure and department wise.
- iii. Details of existing Occupational & Safety Hazards. What are the exposure levels of hazards and whether they are within Permissible Exposure level (PEL). If these are not within PEL, what measures the company has adopted to keep them within PEL so that health of the workers can be preserved,

- iv. Annual report of health status of workers with special reference to Occupational Health and Safety.

9. Corporate Environment Policy:

- i. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.
 - ii. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions? If so, it may be detailed in the EIA.
 - iii. What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions? Details of this system may be given.
 - iv. Does the company have system of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report.
- 10.** Details regarding infrastructure facilities such as sanitation, fuel, restroom etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during operation phase.

11. Enterprise Social Commitment (ESC)

- i. Adequate funds (at least 2.5 % of the project cost) shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time bound action plan shall be included. Socio-economic development activities need to be elaborated upon.
- 12.** Any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice(s) and present status of the case.
- 13.** A tabular chart with index for point wise compliance of above TOR.

B. SPECIFIC TERMS OF REFERENCE FOR EIA STUDIES FOR METALLURGICAL INDUSTRIES (FERROUS & NON FERROUS)

- 1. Complete process flow diagram describing each unit, its processes and operations, along with material and energy inputs & outputs (material and energy balance).
- 2. Details on blast furnace/ open hearth furnace/ basic oxygen furnace/ladle refining, casting and rolling plants etc.
- 3. Details on installation/activation of opacity meters with recording with proper calibration system
- 4. Details on toxic metals including mercury, arsenic and fluoride emissions



5. Details on stack height requirement for integrated steel
6. Details on ash disposal and management -Non-ferrous metal
7. Complete process flow diagram describing production of lead/zinc/copper/aluminium, etc.
8. Raw materials substitution or elimination
9. Details on smelting, thermal refining, melting, slag fuming, and Waelz kiln operation
10. Details on Holding and de-gassing of molten metal from primary and secondary aluminum, materials pre-treatment, and from melting and smelting of secondary aluminium
11. Details on solvent recycling
12. Details on precious metals recovery
13. Details on composition, generation and utilization of waste/fuel gases from coke oven plant and their utilization.
14. Details on toxic metal content in the waste material and its composition and end use (particularly of slag).
15. Trace metals Mercury, arsenic and fluoride emissions in the raw material.
16. Trace metals in waste material especially slag.
17. Plan for trace metal recovery
18. Trace metals in water

C. Other

1. Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the F.R for securing the TOR) should be brought to the attention of SEIAA, Jharkhand with reasons for such changes and permission should be sought, as the TOR may also have to be altered.
2. After preparing the draft EIA (as per the generic structure prescribed in Appendix- III of the EIA Notification, 2006) covering the above mentioned issues, the proponent will get the public hearing conducted and take further necessary action for obtaining environmental clearance in accordance with the procedure prescribed under the EIA Notification, 2006.
3. The prescribed TORs would be valid for a period of three years for submission of the EIA / EMP reports, as per the O.M. No. J-11015/109/2013-IA.II(M) , dated 12.01.2017.




Sd/-
Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand.



Memo No.-EC/SEIAA/2022-23/2592/2022/ 128

Dated: 18/06/2022

Copy to:

1. Member Secretary, Jharkhand State Pollution Control Board, Ranchi for information and necessary action.
2. Secretary, SEAC, Jharkhand, Ranchi for information and necessary action.

Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand

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