



State Level Environment Impact Assessment Authority, Jharkhand

Nursery Complex, Near Dhurwa Bus Stand, P.O+P.S-Dhurwa, Ranchi, Jharkhand-834004

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Letter No : EC/SEIAA/2022-23/2797/2023/

Ranchi, Date :

To: M/s Renuka Ispat Private Limited,
Shri Vivek Lodha (Director),
At – Saldaha, P.S. : Rajganj, Block : Baghmara,
District : Dhanbad, Jharkhand : 828113.

Amendment

Sub: Amendment of Terms of Reference for the project “Amendment of ToR for Enhancing the production of Angle, Flat etc. from 13,500 TPA to 50,000 TPA by Modernization of existing Re-Rolling Mill and by enhancing the production of M.S. Billets from 14,700 TPA to 60,000 TPA by installing additional 1x10 T Induction Furnace and Modernization of Existing Induction Furnace from 1x8 T to 1x10 T with 1x1 Strand, 3/6 Radius CCM and now proposed to include Electroplating Machine (10 TPD x 4) by M/s Renuka Ispat Pvt. Ltd. at Village : Saldaha, Tehsil : Baghmara, District: Dhanbad, Jharkhand” (Proposal No. SIA/JH/IND/298694/2023) - regarding.

Ref: Your online application dated : 12.04.2023.

Sir,

1. This is in continuation of Terms of Reference (ToR) issued by the State Level Environment Impact Assessment Authority (SEIAA), Jharkhand vide letter no.- EC/SEIAA/2022-23/2715/2023/368, Ranchi, Date : 30.01.2023 in favour of “M/s Renuka Ispat Pvt. Ltd. at Village : Saldaha, Tehsil : Baghmara, District: Dhanbad, Jharkhand”.

2. Further you have applied online application no. : SIA/JH/IND/298694/2023 requesting for amendment of ToR in terms of change in **additional Electroplating Machine (10 TPD x 4) and ETP of capacity 10 KLD** to the above mentioned project proposal.

3. Your request has been examined by the State Level Expert Appraisal Committee (SEAC), Jharkhand in its 103rd meeting held on 14th, 15th, 16th, 17th & 18th April, 2023, based on the information furnished/provided and discussion held, the State Level Expert Appraisal Committee, (SEAC) recommended to issue **amendment of earlier ToR** issued vide letter no. : EC/SEIAA/2022-23/2715/2023/368, Ranchi, Date : 30.01.2023, as the following:-

This project was granted ToR on vide letter no. EC/SEIAA/2022-23/2715/2023/368, dated 30.01.2023. Now additional **Electroplating Machine (10 TPD x 4) and ETP of capacity 10 KLD** have been proposed to be added and hence this proposal was appraised for amendment of ToR on 16.04.2023.

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.

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 Renuka Ispat Private Limited
3	Brief description of nature of the project	M/s Renuka Ispat Limited has existing setup which include Induction furnace of capacity 1x8T producing MS Billet 14,700 TPA and Rolling mill engaged in the production of Angle, Flat etc 13,500 TPA. Now the company has proposed for Enhancing the production of Angle, Flat, Etc. From 13,500 TPA To 50,000 TPA by Modernization of existing Re-Rolling Mill and by enhancing the production of M.S. Billets From 14,700 TPA To 60,000 TPA by Installing additional 1x 10T Induction Furnace and Modernization of Existing Induction Furnace from 1x8 T To 1x10 T With 1x1 Strand, 3/6 Radius CCM and addition of Electroplating Machine (10 TPD X 4)
4	Salient Features of the Project	
4.1	Proposed production capacity	MS Billet – 60,000 TPA Angle Flat Etc.- 50,000 TPA
4.2	Total Plot Area	Total Plot Area –3.3Acre
4.3	Location	Saldaha, P.S- Rajganj, Block Baghmara, District-Dhanbad.
4.4	Water requirement	Water requirement is fulfilled through bore well made at the plant area and from the rain water harvesting pond. Overall water requirement for the proposed expansion project will be approx. 70 KLD out of which 58 KLD will be recirculated in the process and 12 KLD will be makeup water
4.5	Source of water	Bore well
4.6	Wastewater	The domestic water consumption will result in generation of ~2.4 m3/day of domestic wastewater. The wastewaters will be treated and entirely reused. ETP capacity – 10 KLD for Electro Plating

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S. No	Parameters	Description
4.7	Man Power	Existing: 50 Total after expansion: 70
4.8	Electricity/Power requirement	The electrical power requirement will increase to ~8000 kVA. One DG set of 125 kVA already installed (as power back-up).
4.9	Land form, Land use and land ownership	Private land, owned by M/S Renuka Ispat Private Limited

Land Details:

Sl. No.	Khata No.	Plot No.
1	02	303, 304, 305, 306, 307, 308 & 376

Latitude & Longitude of the project:

Latitude	Longitude
23° 51'32.453"N and 23°51'37.690"N	86°20'13.184"E and 86°20'19.204"E

Plant obtained CTE from Jharkhand State Pollution Control Board (JSPCB) vide letter no JSPCB/HO/RNC/CTE-6060248/2019/574 dated 01.10.2019.

Consent to operate (CTO) vide Ref No. JSPCB/HO/RNC/CTO-9904232/2021/978, dated 06.09.2021 with validity upto 31-03-2023 for the establishment of production of M.S. Angle-13500 TPA.

Sl. No	Plant Facilities	Existing Installed Units and Capacity		Proposed Units and Capacity		Total after Expansion	
		Unit	Capacity	Unit	Capacity	Unit	Capacity
1.	Induction Furnace	1X8 T	14700 TPA	Addition of 1x10 T & Modernization of Existing 1x8 T to 1x10 T	60,000 TPA MS Billets	2x10T	60,000 TPA MS Billets
2.	Continuous Casting Machine	1x1 Strand, 3/6 Radius CCM		-		1x2 Strand, 4/7 Radius CCM	

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3.	Rolling Mill	1x10TPH	13500 TPA	Rolling Mill (1x10TPH capacity)	50,000 TPA Angle Flat Etc.	1x10TPH	50,000 TPA Angle Flat Etc.
4.	Slag Crusher	--	3000 TPA	By 1x10 TPH	13,530 TPA	1x10 TPH	13,530 TPA
5.	Electroplating machine	--	--	10 TPD x 4		10 TPD x 4	

Note- Raw material Source in open market Mainly Zinc and HCL are Used for Electroplating.

Zinc- 35 Kg /day.

HCL- 200 lpd

Industrial Solid waste and Hazardous waste

Units	Solid Wastes	Qty In TPA	Disposal Practice
Induction Furnace	Slag	13530 TPA	It will be supplied to Metal recovery plants and then will be used for construction filling.
Rolling Mill	Mill Scale & cuttings	495 TPA	Will be charged back as scrap in the induction furnace for In-House Reuse
Bag Filter Dust from process	Dust from process	500kg/day	Low Landfilling or supplied to construction contractors for use in construction fillings.
Hazardous waste Generation-	ETP sludge	5Kg/day	ETP Sludge of 5 kg/day send to TSDF.

There is no hazardous waste from the plant except for used oil (approx. 100 kg/Year) from equipment, which will be stored properly as per norms and is saleable to the registered recyclers in the market.

Cost of the existing facilities is Rs. 4.0 Crore, the total estimated cost of the project after the proposed expansion will be Rs. 19.35 Crore.

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STATUTORY CLEARANCES:

1	LOI/Lease docs	:	Private land, owned by M/S Renuka Ispat Private Limited
2	CO	:	The CO, Baghmara (Dhanbad) vide letter no. 860, dated 12.11.2022 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyan & Register II.
3	DFO Wild Life	:	DFO Wildlife, Hazaribagh vide letter no. 2495, dated 10.12.2022 certified that the proposed project site is outside Eco Sensitive Zone of Parasnath & Topchanchi Wildlife Sanctuary.
4	DFO Forest Distance	:	DFO, Dhanbad vide letter no. 2645, dated 17.11.2022 certified that the distance of reserved / protected forest is 750 metre from project site.
5	Consent to Establish (CTE) & Consnet ot Operate (CTO)	:	i. CTE issued by JSPCB vide Ref. no. JSPCB /HO/RNC/CTE-6060248/2019/574, dated 01.10.2019. ii. CTO issued by JSPCB vide Ref. no. JSPCB /HO/RNC/CTO-9904232/2021/978, dated 06.09.2021.

4. The recommendation of SEAC, Jharkhand in this regard has been examined by the State Level Environment Impact Assessment Authority, Jharkhand in its 104th meeting held on 27th and 28th April, 2023, the Committee recommends for issuing of **amendment of ToR** for consideration of SEIAA for undertaking detailed EIA / EMP study and alongwith the following specific conditions as recommended by SEAC.

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

A. Standard Terms of Reference

1. Executive Summary

2. Introduction

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

3. Specific Conditions

- Material balance alongwith storage facilities, permission for storage necessary for use of Zinc and Hydrochloric Acid in the process of Electroplating.
- Detail design of effluent treatment process for presence of Zinc and Hydrochloric Acid in the effluent streams.
- Hazard and Operability Study (HAZOP) and Hazard Identification Risk & Assessment (HIRA) studies shall be conducted.



4. 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, Forest and Climate Change as per OM no. F.no. IA3-22/10/2022-IA.III [E 177258], dated 08th June, 2022 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.

5. 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.
- 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.

6. 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.

7. 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%

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- 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.

8. 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.

9. 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.

10. 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.

11. 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.

12. 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.

13. 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.

14. 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/ aluminum, 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. The Prescribed ToRs is valid as per O.M. F. No. IA3-22/10/2022-IA.III[E177258], dated 08.06.2022. of MoEF & CC, Govt. of India

Sd/-

Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand.

Memo No : **EC/SEIAA/2022-23/2797/2023/ 68**

Ranchi, Date : 02.05.2023

Copy to:

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

Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand

2023

02/05/2023