



**State Level Environment Impact Assessment Authority, Jharkhand**

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

E-mail: [msseiaa.jhk@gmail.com](mailto:msseiaa.jhk@gmail.com) / [chr-seiaajhr@gov.in](mailto:chr-seiaajhr@gov.in)

website: [www.jseiaa.org](http://www.jseiaa.org)

Letter No.-EC/SEIAA/2022-23/2784/2023

Ranchi. Date:

To: **M/s Shree Dwarikesh Ecotex Pvt. Ltd.,  
Shri Harshal Singh (Director),  
Panch Mahuli, Kumardhubi,  
District - Dhanbad, Jharkhand : 828203.**

Sub: Prescribing of ToR to “Enhancement of MS Billet production from 27,000 TPA to 148500 TPA through 3x15 T Induction Furnaces (by replacing existing 1x19 T Furnace wit 1x15 T & installing additional 2x15 T Furnaces along with CCM-2x2 strand, 4/7 radius) , and production of 145500 TPA TMT Bars & Rolled Products by installing Rolling Mills of 1x25 TPH capacity and reheating furnace of 30 TPH (emergency use) by M/s Shree Dwarikesh Ecotex Private Limited at Kandra Industrial Area, Village : Bhitia, Mouza : Kansitanr, Thana no. : 124, Thana : Govindpur, P.S. : Govindpur, District : Dhanbad, Jharkhand” (Proposal No. : SIA/JH/IND1/422444/2023) - regarding.

Ref: Your application no.- SDEPL/Gen./22-23/064, dated – 18.03.2023.

Sir,

It is in reference to the project “Enhancement of MS Billet production from 27,000 TPA to 148500 TPA through 3x15 T Induction Furnaces (by replacing existing 1x19 T Furnace wit 1x15 T & installing additional 2x15 T Furnaces along with CCM-2x2 strand, 4/7 radius) , and production of 145500 TPA TMT Bars & Rolled Products by installing Rolling Mills of 1x25 TPH capacity and reheating furnace of 30 TPH (emergency use) by M/s Shree Dwarikesh Ecotex Private Limited at Kandra Industrial Area, Village : Bhitia, Mouza : Kansitanr, Thana no. : 124, Thana : Govindpur, P.S. : Govindpur, District : Dhanbad, Jharkhand” submitted by you for seeking Terms of Reference (ToR).

This is an expansion project which has been taken for appraisal on 24.03.2023.

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.

M/s Shree Dwarikesh Ecotex Pvt. Ltd. is an existing steel plant at Plot No C-12(P), C13, C14(P), C15 & C16 at Kandra Industrial Area, Village - Bhitia, Mauza – Kansitanr, thana No.- 124, Thana – Govindpur, District -Dhanbad, Jharkhand. Total area of 4.50 acres (1.82 ha.) is proposed for the current project.

The company had installed a unit of Non-Woven Polyester Staple Fiber of 9000 TPA capacity vide CTE ref. no JSPCB/HO/RNC/CTE-2378724/2018/897, dated 24.08.2018 and CTO vide ref. no JSPCB/RO/DHN/CTO-11179170/2021/99, dated 28.10.2021. However due to non-viability of the product, the company dismantled the unit and surrendered the consent.

M.S. Billet/Ingot unit was installed after obtaining Consent to Establish (CTE) vide Ref. No. JSPCB/HO/RNC/CTE-8744396/2020/389 dated 08.10.2020 for 27000 TPA M.S. Billet/Ingots and 48000 TPA Slag Crusher. Consent to Operate (CTO) for the same was obtained vide Ref. no. JSPCB/HO/RNC/CTO-130195451/2022/821, dated 09.06.2022 for the period 31.12.2024. The slag crusher unit is located in the plot adjacent to the area proposed for the project.

The company now proposes for Expansion Project for Final Configuration of Induction Furnaces 3 x 15T (by Replacement of Existing 1 x 9T Furnace with 1 x 15 T & Addition of 2 x 15 T) & CCM 1 x 2 strand, 4/7 Radius for Hot Billets - 148500 TPA, Rolling Mill (for Rolled Products) - 145500 TPA and Reheating Furnace (1x30 TPH, back up)- 99000 TPA from existing plant of – M.S. Ingots/Billets 27000 TPA. There will be a stand by re-heating furnace of capacity 99000 TPA for emergency and start-up after shutdowns.

#### Land Details:

Khata No.	Plot No.
23	74 (P), 70 (P)
22	90, 91
18	88, 93 (P)
19	87 (P), 92, 94 (P), 95 (P)
04	89, 108 (P)

Total area of 4.50 acres (1.82 ha.) allotted by concerned authority, is proposed for the current project. For complying with the requirement of 33% greenbelt and plantation 1.52 acres (0.615 ha.) land will be acquired in the nearby vicinity for plantation purpose only.

#### Latitude & Longitude of the project :

Latitude	Longitude
23°50'53.34"N to 23°50'57.24"N	86°28'34.10"E to 86°28'39.84"E

The existing project cost is Rs. 4.65 Crores. The estimated project cost for the proposed expansion is Rs. 44.46 Crores. The total project cost after the expansion will be Rs. 49.11 Crores.

Employment Generation after the proposed project will be 150 direct employment and approximately 100 - 120 people will be employed during the construction phase and will be recruited from the local villages surrounding the project site.

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The capacity of different existing and proposed units is as follows:

Sl. No	Plant Facilities	Existing Configuration	Proposed final Configuration	Final Production Capacity (TPA)
1	Induction Furnace For Billet	27,000 TPA (1x9T)	1,48,500 TPA (3x15 T)	MS Billets 148,500 TPA
	Continuous Casting Machine	-	1 x 2 strand Rad - 4/7 m (for 1,48,500 TPA)	
2	Reheating Furnace (emergency use)	-	1x30 TPH	99000 TPA
3	Rolling Mill (Direct Hot Charging)	-	1,45,500 TPA (1x25TPH)	Rolled Products (TMT Bars/Rods etc.) 1,45,500 TPA

Presently the unit is having a connected load of 3.0 MVA from DVC. Total power requirement for the project after expansion is envisaged as 22.0 MVA, which will be met from DVC.

The total requirement of makeup water for industrial and domestic purposes after the proposed expansion will be 190.0 KLD. Existing NOC for ground water is for 42 KLD (NOC No. CGWA/NOC/IND/ORIG/2021/12085) dated: 01.06.2021. The water requirement will be met from ground water through bore wells. NOC for the proposed ground water withdrawal will be obtained from CGWA.

Raw material for the plant would be procured from local and other state markets depending upon the quality. The transportation of raw material and the final products will be done through NH-2 that is nearby the project site. Total Raw material requirement after the proposed expansion of plant is given below:

Raw Materials	Required materials for Per Ton of product	Total Raw materials required After Expansion	Source
Billets – Total production: 148500 TPA			
Sponge Iron	0.80	118800 TPA	Plant in Jharkhand. Through Road
Pig Iron	0.30	44550 TPA	

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Scrap	0.15	22275 TPA	In-house & nearby Plants. Through Road
Ferro Alloys (SiMn/FeSi)	0.002	297 TPA	Plant in Jharkhand. Through Road
Total Raw Materials	1.252	185922 TPA	
Rolling Mill – Rolled products (TMT Bars/Rods etc.) Total production: 145500 TPA			
Hot Billets/M.S. Billets	1.02	148500 TPA	148500 TPA, In-house – Hot Billets direct charging
Re-heating furnace – 99000 TPA			
Clean fuel	0.07	As appropriate	Purchase from available sources.

#### STATUTORY CLEARANCES:

1	LOI/Lease docs	:	Lease Deed.
2	CO	:	The CO, Govindpur (Dhanbad) vide letter no. 1167, dated 16.09.2021 has mentioned the plot no. of the project is not recorded as “Jungle Jhari” in R.S. Khatiyani & Register II.
3	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 1967, dated 14.11.2021 certified that the proposed project site is outside Eco Sensitive Zone of Parasnath & Topchanchi Wildlife Sanctuary.
4	DFO Forest Distance	:	DFO, Dhanbad Forest Division vide letter no. 2203, dated 02.12.2021 certified that the distance of reserved / protected forest is 500 meters from project site.
5	CGWA	:	No Objection Certificate (NOC) for Ground Water Abstraction issued by CGWA vide NOC no. CGWA/NOC/IND/ORIG /2021 /12085, dated 01.06.2021.
6	Consent to Establish (CTE)	:	CTE issued by JSPCB vide Ref. no. JSPCB/HO/RNC/CTE-8744396 /2020/389, dated 08.10.2020.
7	Consent to Operate (CTO)	:	CTO granted by JSPCB vide Ref. no. JSPCB/HO/RNC/CTO-13019451/2022/821, dated 09.06.2022.

Baseline data collection for 3 month (one season) – 1<sup>st</sup> March to 31<sup>st</sup> May 2023.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its 102<sup>nd</sup> meetings held

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during 21<sup>st</sup>, 22<sup>nd</sup>, 23<sup>rd</sup>, 24<sup>th</sup> and 25<sup>th</sup> March, 2023, 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. SEIAA, Jharkhand has approved the ToRs in its 103<sup>rd</sup> meeting held on 01<sup>st</sup> & 02<sup>nd</sup> April, 2023.

**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. Specific Conditions:**

- i. Unutilized land will be used for green cover development.
- ii. Solar panel will be installed and the power so generated will be used for common lighting.

**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 08<sup>th</sup> 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-

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- 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 NAQPM 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.

**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.

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- 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 2500 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

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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

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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 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/2022-23/2784/2023/ 25

Dated: 12/04/2023

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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12/04/2023