सत्यमेव जयते

File No: EC/SEIAA/2024-25/3079/2024

Government of India

Ministry of Environment, Forest and Climate Change

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

***

Dated **15/05/2024**

To,

AMIT KUMAR AGARWAL
SARVASHIVA IRON & STEEL PRIVATE LIMITED
608, 6th Floor, Eastern Mall, Dangra Toli Chowk, Ranchi-834001, Dangra Toli Chowk, RANCHI, JHARKHAND, 834001
sarvashivairon123@gmail.com

Subject: Grant of Terms of Reference under the provision of the EIA Notification 2006-regarding.

Sir/Madam,

This is in reference to your application for Grant of Terms of Reference under the provision of the EIA Notification 2006-regarding in respect of project Environmental Clearance for Production of MS Billets 3,00,000 TPA through installing 4x20T Induction Furnaces, CCM of 2X2 Strand, Radius-6/11 along with rolling mill to produce 2,90,500 TPA rolled product and Slag Crusher of 10 TPH by M/s Sarvashiva Iron and Steel Private Limited submitted to Ministry vide proposal number SIA/JH/IND1/469494/2024 dated 24/04/2024.

2. The particulars of the proposal are as below :

(i) TOR Identification No.	TO24B1010JH5505525N
(ii) File No.	EC/SEIAA/2024-25/3079/2024
(iii) Clearance Type	TOR
(iv) Category	B1
(v) Project/Activity Included Schedule No.	3(a) Metallurgical Industries (ferrous and non ferrous),3(a) Metallurgical Industries (ferrous and non ferrous)
(vii) Name of Project	Environmental Clearance for Production of MS Billets 3,00,000 TPA through installing 4x20T Induction Furnaces, CCM of 2X2 Strand, Radius-6/11 along with rolling mill to produce 2,90,500 TPA rolled product and Slag Crusher of 10 TPH by M/s Sarvashiva Iron and Steel Private Limited
(viii) Name of Company/Organization	SARVASHIVA IRON & STEEL PRIVATE LIMITED
(ix) Location of Project (District, State)	KODERMA, JHARKHAND

(x) Issuing Authority	SEIAA
(xii) Applicability of General Conditions	no
(xiii) Applicability of Specific Conditions	no

3. In view of the particulars given in the Para 1 above, the project proposal interalia including Form-1(Part A and B) were submitted to the Ministry for an appraisal by the State Environment Impact AssessmentAuthority(SEIAA) Appraisal Committee (SEIAA) in the Ministry under the provision of EIA notification 2006 and its subsequent amendments.

4. The above-mentioned proposal has been considered by State Environment Impact AssessmentAuthority(SEIAA) Appraisal Committee of SEIAA in the meeting held on 06/05/2024. The minutes of the meeting and all the Application and documents submitted [(viz. Form-1 Part A, Part B, Part C EIA, EMP)] are available on PARIVESH portal which can be accessed by scanning the QR Code above.

5. The brief about configuration of plant/equipment, products and byproducts and salient features of the project along with environment settings, as submitted by the Project proponent in Form-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 06/05/2024, based on information & clarifications provided by the project proponent and after detailed deliberations recommended the proposal for grant of Terms of Reference under the provision of EIA Notification, 2006 and as amended thereof subject to stipulation of specific and general conditions as detailed in Annexure (2).

7. The SEIAA has examined the proposal in accordance with the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and after accepting the recommendations of the State Environment Impact AssessmentAuthority(SEIAA) Appraisal Committee hereby decided to grant Terms of Reference for instant proposal of M/s. AMIT KUMAR AGARWAL under the provisions of EIA Notification, 2006 and as amended thereof.

8. The Ministry reserves the right to stipulate additional conditions, if found necessary.

9. The Terms of Reference 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. This issues with the approval of the Competent Authority.

Copy To

1. Member Secretary, Jharkhand State Pollution Control Board, Ranchi for information and necessary action.
2. Regional Office, Ministry of Environment, Forest and Climate Change, Govt. of India, 2nd Floor, Jharkhand State Housing Board (HQ), Harmu Chowk, Ranchi, Jharkhand – 834002.
3. Member Secretary, SEAC, Jharkhand, Ranchi for information and necessary action.

Annexure 1

Specific Terms of Reference for (Metallurgical Industries (Ferrous And Non Ferrous))

1. This Project Does Not Contains: 1. No Forest Land Involve. 2. Out Side Of The Protected Area And Esz

S. No	Terms of Reference
1.1	**The TORs prescribed for undertaking detailed EIA study are as follows:** **1. Executive Summary** **2. Introduction**

S. No	Terms of Reference
	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, 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. **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. 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

S. No	Terms of Reference
	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.

S. No	Terms of Reference
	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. **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 heath 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?

S. No	Terms of Reference
	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. 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.

Additional Terms of Reference

N/A

Annexure 2

Details of Products & By-products

Name of the product /By-product	Product / By-product	Quantity	Unit	Mode of Transport / Transmission	Remarks (eg. CAS number)
MS Billets	MS Billets	300000	Tons per Annum (TPA)	Road	
Rolled product	Rolled product	290500	Tons per Annum (TPA)	Road	
Slag Crusher	Slag Crusher	10	TPH	Road	

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 / chr-seiaajhr@gov.in
website: www.jseiaa.org

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Letter No.-**EC/SEIAA/2024-25/3079/2024/** Ranchi, Date:

To: **M/s Sarvashiva Iron and Steel Private Limited,**
Mrs. Deepika Devi, (Director),
Lalmandigtha, Gumo Jhumri Telaiya,
District – Koderma – 825409, (Jharkhand).

Sub: Prescribing of ToR to **"Production of MS Billets 3,00,000 TPA through installing 4x20 T Induction Furnaces, CCM of 2x2 Strand, Radius – 6/11 along with rolling mill to produce 2,90,500 TPA rolled product and Slag Crusher of 10 TPH by M/s Sarvashiva Iron and Steel Private Limited, Village : Lalmandigtha, Gumo, Jhumri Telaiya, P.S. : Koderma, Distt. : Koderma, Jharkhand" (Proposal No. : SIA/JH/IND1/469494/2024) - regarding.**

Ref: Your application no.- Nil, dated – 24.04.2024.

Sir,

It is in reference to the project **"Production of MS Billets 3,00,000 TPA through installing 4x20 T Induction Furnaces, CCM of 2x2 Strand, Radius – 6/11 along with rolling mill to produce 2,90,500 TPA rolled product and Slag Crusher of 10 TPH by M/s Sarvashiva Iron and Steel Private Limited, Village : Lalmandigtha, Gumo, Jhumri Telaiya, P.S. : Koderma, Distt. : Koderma, Jharkhand"** submitted by you for seeking Terms of Reference (ToR).

This is a new project which has been taken for appraisal on 28.04.2024.

Project Category : 3 (a) Metallurgical Industries (Ferrous & Non-Ferrous) as per EIA Notification, 2006.

Sl. 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 Sarvashiva Iron and Steel Private Limited

Sl. No	Parameters	Description
3	Brief description of nature of the project	Environmental Clearance for Production of MS Billets 3,00,000 TPA through installing 4x20T Induction Furnaces, CCM of 2X2 Strand, Radius-6/11 along with rolling mill to produce 2,90,500 TPA rolled product and Slag Crusher of 10 TPH.
4	**Salient Features of the Project**	
4.1	Proposed production capacity	Production of MS Billets 3,00,000 TPA through installing 4x20T Induction Furnaces, CCM of 2X2 Strand, Radius-6/11 along with rolling mill to produce 2,90,500 TPA rolled product and Slag Crusher of 10 TPH.
4.2	Total Plot Area	5.09 Acres. (Plant Area- 3.35 Acre+ Green Belt 1.74 Acre)
4.3	Location	Lalmandigtha, Jhumri Telaiya, District Koderma, and State Jharkhand
4.4	Water requirement	The total water requirement for the proposed project is estimated to be 240 KL where ~180KLD will be recirculated and daily fresh water requirement will be ~60 KLD. To support cooking/drinking water and sanitary requirements of the staff and workers, industry will need a maximum of 4.5 KLD of fresh water, which will contribute to about 3.6 KLD of domestic sewage
4.5	Source of water	Borewell
4.6	Wastewater	The domestic water consumption will result in generation of ~03 m3/day of domestic wastewater. The wastewaters will be treated and entirely reused.
4.7	Man Power	Around 100person
4.8	Electricity/Power requirement	The electrical power requirement will be ~22000 kVA. One DG set of 500 kVA already installed (as power back-up).
4.9	Alternative site	No alternative site.
4.10	Land form, Land use and land ownership	Private land, owned by M/s Sarvashiva Iron and Steel Private Limited
4.11	Total project cost	95 Crore.

Coordinates of the project:

Latitude	Longitude
24°25' 10.094''N	85°29' 12.474'' E
24°25' 11.873''N	85°29' 13.913'' E
24°25' 10.235''N	85°29' 17.752'' E
24°25' 9.360''N	85°29' 17.554'' E
24°25' 7.977''N	85°29' 21.224'' E
24°25' 8.620''N	85°29' 21.563'' E
24°25' 5.776''N	85°29' 23.708'' E
24°25' 3.320''N	85°29' 26.418'' E
24°25' 2.614''N	85°29' 26.051'' E
24°25' 3.376''N	85°29' 24.865'' E
24°25' 6.453''N	85°29' 20.829'' E
24°25' 7.413''N	85°29' 19.502'' E
24°25' 9.135''N	85°29' 14.816'' E
24°25' 9.869''N	85°29' 13.405'' E

LAND DETAILS:

Khata No.	Plot No.
02	17

Plant obtained CTE from Jharkhand State Pollution Control Board (JSPCB) vide letter no JSPCB/HO/RNC/CTE-16672396/2023/502dated 31.08.2023for production of MS Billet 26400 TPA & Slag Crushing 4800 TPA. However the plant establishment has not been carried out.

S.No.	Particulars	Proposed	Total Production
1.	Unit processes/ machinery	Induction Furnace 4x20T CCM 2X2 Strand,	3,00,000 TPA MS Billets

		Radius 6/11 Rolling Mill 1x25 TPH Slag Crusher 10 TPH	2,90,500 TPA Rolled Product
2.	Capacity of the Plant	MS Billet – 3,00,000 TPA, Rolled product - 2,90,500 TPA Slag Crusher – 10 TPH,	MS Billet – 3,00,000 TPA, Rolled product - 2,90,500 TPA Slag Crusher – 10 TPH,
3.	Fixed capital investment (Rs)	95 Cr.	95 Cr.
4.	Electrical power requirement	22000 KVA	22000 KVA
5.	**Raw Material Requirement**		

Sl no.	**Raw Materials**	**Total Proposed Requirement**	**Mode of Transportation**	**Source of Raw Material**	**Distance (km)**
1	Sponge Iron	806	Road	Local Plants in Koderma, Giridih Hazaribagh.	10 to 90 Kms
2	Ferro alloy	150	Road		
3	MS Scrap	52	Road	In house or local plant in Koderma	10 Kms
For Rolled Product					
	M.S Billet	857 TPD	Billets will be used for in- house rolling mill		

6.	Manpower requirement	100	100
7	Process water requirement	55.0	55.0
8.	Domestic water requirement	5.0	5.0
9.	Domestic wastewater generation	4.5	4.5
10.	Solid waste generation Slag Mill scale Industrial Manpower	 ~141 MT/day 9 MT/Day 45 kg/Day	 ~141 MT/day 9 MT/Day 45 kg/Day

	(100 person)		
11.	Waste oil/lubricant (5.1)	0.2 Kl/year	0.2 Kl/year
12.	APCD- Bag-House Filter	01	01
13.	Fuel	HSD- DG sets	
		Electricity- Induction furnace	

Specific consumption of the plant

Raw Materials	**Total Raw materials required After Expansion**
Specific consumption of Plant for billet production i.e 1 ton	
Sponge Iron	1298 Kg
Ferro Alloys (SiMn/FeSi)	52 Kg
Metal scrap from in house metal extraction /Pig iron	154 Kg
Total Raw Materials for Billets	**1504 Kg**
Billets/M.S. Billets	1000.16 kg

Industrial Solid waste and Hazardous waste

Units	**Solid Wastes**	**Qty In TPA**	**Disposal practice**
Induction Furnace	Slag	49,350	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	3150	Recycled in-house along with scrap in the induction furnace.

The hazardous waste will be stored properly as per norms and is saleable to the registered recyclers in the market.

STATUTORY CLEARANCES:

1	LOI/Lease docs	:	Private Land : Owned by Sarvashiva Iron and Steel Private Limited.
2	CO	:	The CO, Koderma vide letter no. 828, dated 11.05.2023 has mentioned the plot no. of the project is not recorded as "Jungle - Jhari" in R.S. Khatiyan.
3	DFO Wild Life	:	DFO Wildlife, Hazaribagh vide letter no. 1163, dated 14.06.2023 certified that the proposed project site is outside Eco Sensitive Zone of Koderma Wildlife Sanctuary.
4	DFO Forest Distance	:	DFO, Koderma Forest Division vide letter no. 2674, dated 21.06.2023 certified that the distance of reserved / protected forest is 380 meter from project site.
5	Consent to Establish (CTE)		**CTE** issued by JSPCB vide Ref. no. JSPCB/HO/RNC/CTE-16672396/ 2023/502, Dated: 31.08.2023.

Baseline study has been conducted between 1st October, 2023 and 31st December, 2023.

SEAC, Jharkhand has recommended the ToRs in its **111th** meeting held on **26th, 27th, 28th, 29th, and 30th April, 2024** for undertaking detailed EIA / EMP study and SEIAA, Jharkhand has granted the ToRs in its **111th** meeting held on **06th & 07th May, 2024**. The SEAC has recommended following conditions:

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, 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.

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.
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 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.

8. Occupational health:

i. Plan and fund allocation to ensure the occupational health & safety of all contract and 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.

A. 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.

B. 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/2024-25/3079/2024/** 414 Dated: 09/05/2024

Copy to:

1. Member Secretary, Jharkhand State Pollution Control Board, Ranchi for information and necessary action.
2. Regional Office, Ministry of Environment, Forest and Climate Change, Govt. of India, 2nd Floor, Jharkhand State Housing Board (HQ), Harmu Chowk, Ranchi, Jharkhand – 834002.
3. Member Secretary, SEAC, Jharkhand, Ranchi for information and necessary action.

09/05/2024
Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand.

Signature Not Verified
Digitally Signed by : Shri Ashok Kumar
Member Secretary, SEIAA
Date: 15/05/2024