



File No: EC/SEIAA/2024-25/3131/2024

**Government of India**  
**Ministry of Environment, Forest and Climate Change**  
**(Issued by the State Environment Impact Assessment**  
**Authority(SEIAA), JHARKHAND)**

\*\*\*



Dated 19/06/2024



To,

Inzamamul Haque  
STEEL STRIPS WHEELS LTD  
S.C.O. 49-50, Sector-26 , State- Chandigarh, District- Chandigarh, Village Muria, SARAİKELA  
KHARSAWAN, JHARKHAND, 160019  
steelstrips2023@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 Regularization of Existing Rolling mill, Multi blanking line (CTL), Reheating furnace (11 TPH) for production of 28160 TPA Round Bars, Flat Bars & Sections and 20 million/year M.S. Blanks-Disc along with Modernization of existing Coal Gasifier by M/s Steel Strips Wheel Limited at Village- Muria, P.O. Kolabira, Dist.- Saraikela Kharsawan, Jharkhand submitted to Ministry vide proposal number SIA/JH/IND1/428941/2023 dated 27/05/2024.

2. The particulars of the proposal are as below :

(i) TOR Identification No.	TO23B1009JH5265897N
(ii) File No.	EC/SEIAA/2024-25/3131/2024
(iii) Clearance Type	TOR
(iv) Category	B1
(v) Project/Activity Included Schedule No.	3(a) Metallurgical Industries (ferrous and non ferrous) Regularization of Existing Rolling mill, Multi blanking line (CTL), Reheating furnace (11 TPH) for production of 28160 TPA Round Bars, Flat Bars & Sections and 20 million/year M.S. Blanks-Disc along with Modernization of existing Coal Gasifier by M/s Steel Strips Wheel Limited at Village- Muria, P.O. Kolabira, Dist.- Saraikela Kharsawan, Jharkhand
(vii) Name of Project	
(viii) Name of Company/Organization	STEEL STRIPS WHEELS LTD
(ix) Location of Project (District, State)	SARAİKELA KHARSAWAN, JHARKHAND

<b>(x) Issuing Authority</b>	SEIAA
<b>(xii) Applicability of General Conditions</b>	no
<b>(xiii) Applicability of Specific Conditions</b>	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 Assessment Authority(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 Assessment Authority(SEIAA) Appraisal Committee of SEIAA in the meeting held on 07/06/2024. 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 07/06/2024, 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 Assessment Authority(SEIAA) Appraisal Committee hereby decided to grant Terms of Reference for instant proposal of M/s. Inzamamul Haque 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**

N/A

**Annexure 1**

**Standard Terms of Reference for Industrial Projects - 1**

**1. Preliminary Requirements**

S. No	Terms of Reference
<b>1.1</b>	EIA/EMP report cover page shall consists of project title with location, applicable schedule of the EIA Notification, 2006, ToR letter No. with date, study period along with EIA consultant & laboratory details with QCI/NABET/NABL accreditation certificate detail.
<b>1.2</b>	Besides, following points shall be compiled as per QCI/NABET norms: a. Disclaimer by the EIA consultant. b. Declaration by the Functional Area Experts contributed to the EIA study and declaration by the head of the accredited consultant organization/authorized person. c. Undertaking

S. No	Terms of Reference
	by the project proponent owning the contents (information and data) of the EIA/EMP report. d. Undertaking by the EIA consultant regarding compliance of ToR issued by MoEF&CC. e. Consultant shall submit the Plagiarism Certificate for the EIA/EMP Report.

## 2. Executive Summary

S. No	Terms of Reference
2.1	Table of Contents of the EIA report including list of tables/figures/annexures/abbreviations/symbols/notations.
2.2	Point wise compliance to the ToR issued by MoEF&CC.

### 2.1 Introduction

S. No	Terms of Reference
2.1.1	Name of the project along with applicable schedule and category as per EIA, 2006.
2.1.2	Location and accessibility

### 2.2 Project Description

S. No	Terms of Reference
2.2.1	Resource requirements (Land; water; fuel; manpower)
2.2.2	Operational activity
2.2.3	Key pollution concerns

### 2.3 Baseline Environment Studies

S. No	Terms of Reference
2.3.1	Ambient air quality

### Additional Terms of Reference

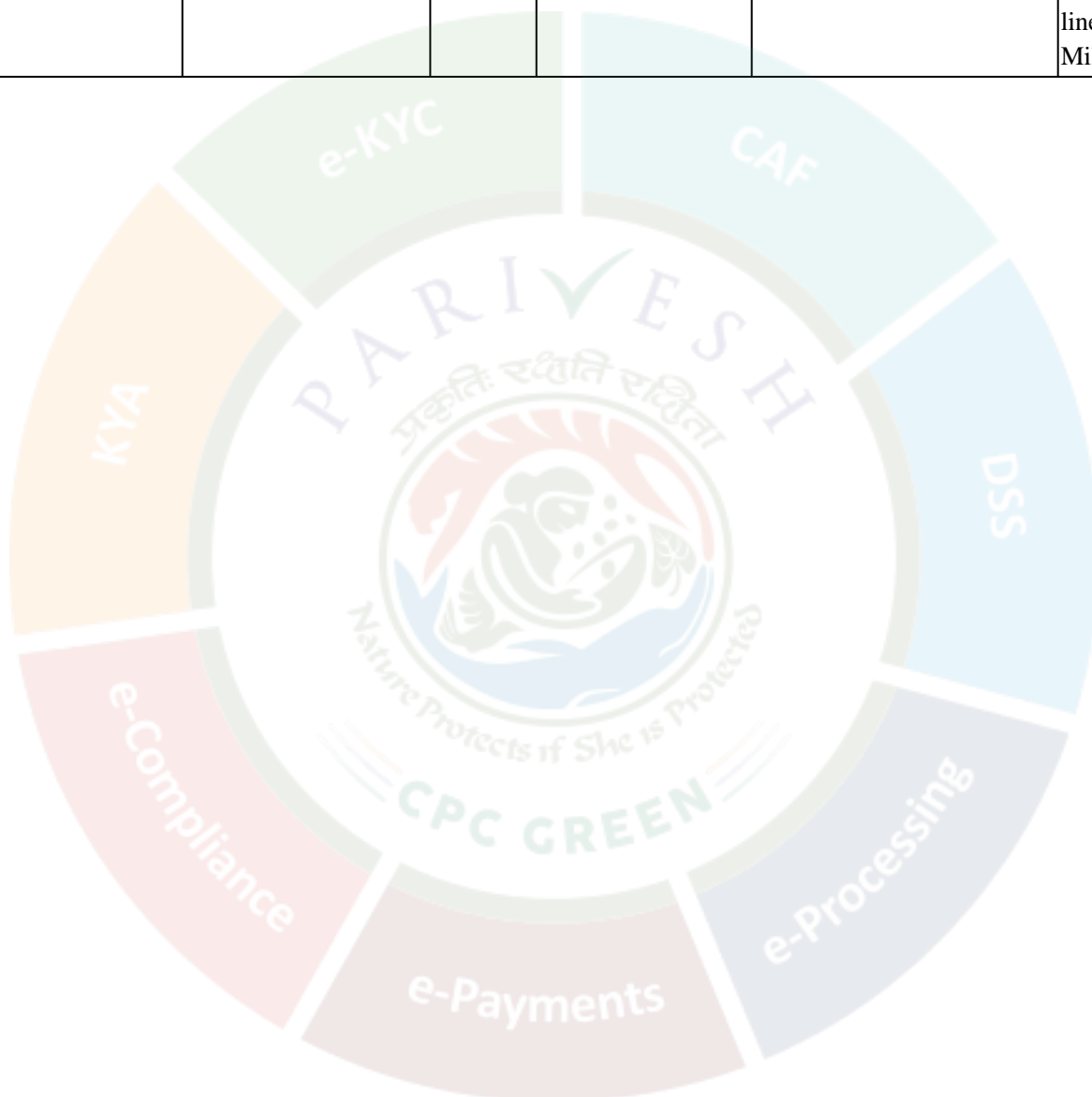
N/A

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)
Round Bar/Flat Bar &	Round Bar/Flat Bar &	28160	Tons per Annum	Road	Round

Name of the product /By-product	Product / By-product	Quantity	Unit	Mode of Transport / Transmission	Remarks (eg. CAS number)
Sections	Sections		(TPA)		Bar/Flat Bar & Sections from Rolling Mill
M.S. Blanks-Disc	M.S. Blanks-Disc	20	Million/Year	Road	M.S. Blank Disc from Multi-Blanking line- 20 Million/Year





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

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

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

Letter No.-EC/SEIAA/2024-25/3131/2024/

Ranchi, Date:

To: **Shri Inzamamul Haque**  
(Plant Manager)  
C/o Piyush Kumar,  
M/s Steel Strips Wheels Limited,  
Mouza - Jojobera, P.O. – Chhota Govindpur,  
District – Jamshedpur, Jharkhand : 831015.

Sub: Prescribing of ToR to **“Regularization of existing Rolling Mill & Reheating furnace for production of 28160 TPA Round Bars, Flat Bars & Sections and Multi blanking line (Cut to Length) for 20 million / year M.S. Blanks – Disc along with existing Coal Gasifier by M/s Steel Strips Wheel Limited at Village : Muria, P.O. : Kolabira, Distt. : Saraikela-Kharsawan, Jharkhand”** (Proposal No. : SIA/JH/IND1/428941/2024) - regarding.

Ref: Your application no.- Nil, dated – 27.05.2024.

Sir,

It is in reference to the project **“Regularization of existing Rolling Mill & Reheating furnace for production of 28160 TPA Round Bars, Flat Bars & Sections and Multi blanking line (Cut to Length) for 20 million / year M.S. Blanks – Disc along with existing Coal Gasifier by M/s Steel Strips Wheel Limited at Village : Muria, P.O. : Kolabira, Distt. : Saraikela-Kharsawan, Jharkhand”** submitted by you for seeking Terms of Reference (ToR).

This is an existing project which has been taken for appraisal on 31.05.2024.

**Project Category :** B-1 - 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) Secondary Metallurgical Processing industry** as per EIA Notification, 2006.

*ndt*

*[Signature]*

*[Signature]*

M/s Steel Strips Wheels Limited (SSWL) is existing plant at village Muria, P.O. Kolabira, Dist.- Saraikela Kharsawan, Jharkhand on the total area of 3.52 Ha (8.71Acres).

Company started with production of Round bar, Flat and Sections of capacity 28160 TPA capacity after obtaining the Consent to Establish (CTE) vide letter No. B-5312, dated 10th December, 2015. The Project Authorities than obtained CTE for expansion of the plant by adding Producer gas plant of 3700 Nm<sup>3</sup>/hr and Cut to Length line of 200 Lakhs disc/year vide Ref. No. JSPCB/HO/RNC/CTE-4918772/2019/305 dated 10.05.2019. Company has valid CTO vide ref No. JSPCB/HO/RNC/CTO-18863893/2024/576, dated 31st March 2024 valid up to 31st December, 2024 for production of Round Bar & Flat Bars- 2346.6 MT/Month, Producer Gas- 3700 Nm<sup>3</sup>/hr, Cut to length 200 Lac Disc/year.

Company has now proposed to obtain Environmental Clearance for the regularization of Existing Rolling mill with Reheating furnace for production of 28160 TPA Round Bars, Flat Bars & Sections and Multi blanking line (CTL) for 20 million/year M.S. Blanks-Disc along with existing Coal Gasifier.

Proposed regularization shall be done within the existing plant area of 3.52ha (8.71 Acres). No additional land is required. No forestland is involved. Out of the total area, ha (34%) will be developed as green belt.

<b>Latitude</b>	22°46'33.44"N to 22°46'25.47"N
<b>Longitude</b>	86°0'56.68"E to 86°0'58.59"E

**Land Details :**

<b>Khata No.</b>	40	72	73	155	22	35	58	<b>Total Land</b>
<b>Plot no.</b>	240	241	239, 250, 251, 329, 850, 252, 237	249	248	245	247	
<b>Area</b>	<b>0.10</b>	<b>0.58</b>	<b>7.85</b>	<b>0.02</b>	<b>0.06</b>	<b>0.05</b>	<b>0.05</b>	<b>8.71 Acres</b>

There are no Biosphere Reserve/ National Park/ Wildlife Sanctuary Area within the 10Km radius of the Project Site.

The total Project cost is Rs. 102.89 Crore. Total existing manpower of the plant is 110 persons including Sr. Executives, Managers, Administrators, Engineers, Supervisors and Skilled Technicians.

The Raw material for the plant would be procured from local and other state markets depending upon the quality. The raw material and product transportation will be done through NH-43 at 0.03 km from the project site. The Configuration and Production Details of the unit is as follows:





Sl. No.	Unit	Existing Configuration	Production
1	Rolling Mill	11TPH	28160TPA Round Bars, Flat Bars & Sections
2.	Reheating Furnace (Pusher type &PG Based/Oil Based)		
3.	Coal Gasifier	1x3700 Nm3/Hr.	3700 Nm3/hr Producer Gas
4.	Multi-Blanking line (CTL)	1x 2500 T Hydraulic Press and piercing line	20 Million /Year M.S. Blanks-Disc

Total Power requirement of the unit is 4 MVA. The sourced of the power is TSUISL. 1 nos. of DG Set- 400 KVA is installed to meet emergency requirements of the plant utilities, in case of power shutdown.

Total Raw material requirement of plant is given below:

Raw Materials	Quantity			Source	Transportation (Km)	
	Existing	Proposed	Total		Road	Rail
Billets	29960 TPA	-	29960 TPA	Tata Steel	40-45	-
Hot Rolling Sheet/Coils	51832 TPA	-	51832 TPA	Tata Steel	40-45	-
Coal	7128 TPA	-	7128 TPA	Open Market	20-40	-
Furnace Oil	1402 KLPA	-	1402 KLPA	HPCL	280-290	-

The total water requirement is 300 KLD. The Source of the water is Ground water. The NOC from CGWA for 300 KLD was obtained vide application no. CGWA/NOC/IND/REN/1/2021/6198 dated 07.03.2019 which was valid till 06.03.2022 for renewal of CGWA NOC Company has applied application to CGWA vide. Appl. No. -21-4/210/JH/IND/2016, dated 23.01.2024 and the Re-newal application is under process. Zero Liquid Discharge 'ZLD' shall be maintained.

The proponent has mentioned that there is no court case or violation under EIA Notification to the project or related activity.

#### STATUTORY CLEARANCES :

1	Land docs	:	Ownership land.
2	CO	:	The CO, Saraikela vide letter no. 1367, dated 16.08.2023 has mentioned the plot no. of the project is not recorded as "Jungle

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			Jhari” in R.S. Khatiyan & Register II.
3	DFO Wild Life	:	DFO, Dalma Elephant Project vide letter no. 1377, dated 04.09.2023 certified that the proposed project site is outside Eco Sensitive Zone of Dalma Wildlife Sanctuary.
4	DFO Forest Distance	:	DFO, Saraikela Forest Division, Saraikela vide letter no. 399, dated 29.02.2024 certified that the distance of notified forest is more than 250 meters from project site.
5	Consent to Establish (CTE)	:	<b>CTE</b> issued by JSPCB vide Ref. no. : i. B-5312, dated 10.12.2015. ii. JSPCB/HO/RNC/CTE-4918772/2019/305, dated 10.05.2019. iii. JSPCB/HO/RNC/CTE-8558721/2020/388, dated 08.10.2020. iv. JSPCB/HO/RNC/CTE-11527617/2022/363, dated 02.09.2022.
6	Consent to Operate (CTO)	:	<b>CTO</b> granted by JSPCB vide Ref. no. : i. JSPCB/HO/RNC/CTO-1140689/2017/82, dated 30.01.2017. ii. JSPCB/HO/RNC/CTO-1606715/2018/1284, dated 06.08.2018. iii. JSPCB/HO/RNC/CTO-3576772/2019/544, dated 16.03.2019. iv. JSPCB/HO/RNC/CTO-14931456/2023/407, dated 05.03.2023. v. JSPCB/HO/RNC/CTO-18863893/2024/576, dated 31.03.2024.
7	CGWA	:	Application for renew of NOC issued to existing Industrial projects abstracting ground water vide application no. 21-4/210/JH/IND/2016

Baseline data generation has been carried out 1<sup>st</sup> March, 2023 to 31<sup>st</sup> May, 2023 and additional one month monitoring 1<sup>st</sup> May, 2024 to 31<sup>st</sup> May, 2024 to be included in EIA / EMP.

Public consultation for the project is exempted as per the provisions of MOEF&CC Notification SO 3250(E) Dated 20/07/2022 and SO 3372 dated 26/07/2023, since there is no expansion or modification in the present proposal and only regularization of the existing unit is proposed in light of the above notifications.

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

SEAC, Jharkhand has recommended the ToRs in its 113<sup>th</sup> meeting held on 30<sup>th</sup>, 31<sup>st</sup> May, 2024 & 01<sup>st</sup>, 02<sup>nd</sup> and 03<sup>rd</sup> June, 2024 for undertaking detailed EIA / EMP study and SEIAA, Jharkhand has granted the ToRs in its 113<sup>th</sup> meeting held on 06<sup>th</sup> & 07<sup>th</sup> 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. Specific Conditions:**

- i. **Complete material balance to be provided for all the input & output.**
- ii. **Detailed water balance to be provided.**
- iii. **Details of all the waste generation in the project along with handling and management of the same.**
- iv. **Primary study to be carried out for Socio Economy, Ecology & Bio-Diversity.**
- v. **Details of all the pollution control measures including ETP & STP, if any.**
- vi. **Details of fire control management plan.**
- vii. **All details of the existing plant is to be provided in EIA / EMP.**

**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

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- 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% values for each of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report.

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- 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 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 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.

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- 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.

**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. 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.

Dated: 11/06/2024

Memo No.-EC/SEIAA/2024-25/3131/2024/ 119

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, 2<sup>nd</sup> Floor, Jharkhand State Housing Board (HQ), Harmu Chowk, Ranchi, Jharkhand – 834002.
3. Member Secretary, SEAC, Jharkhand, Ranchi for information and necessary action.

11/06/2024  
Member Secretary

State Level Environment Impact  
Assessment Authority, Jharkhand.