



State Level Environment Impact Assessment Authority, Jharkhand

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Letter No.-EC/SEIAA/2022-23/2722/2023

Ranchi, Date:

To: M/s Mangalam Ispat,
Sri Ankit Kumar Agrawal (Partner),
At Plot No. IV/A-5(P), Bokaro Industrial Area,
Balidih, Village - Gorabali, P.S. – Jaridih,
District - Bokaro, Jharkhand – 827014.

Sub: Prescribing of ToR to “Expansion of Existing MS Ingot/Billet production from 13200 TPA to 118800 TPA through existing 2x8T Furnace & installing additional 2x10T Furnaces along with CCM-1x2strand, Rad- 4/7 and production of 29700 TPA to 117600 TPA by increasing Rolling Mill capacity 1x20 TPH of M/s Mangalam Ispat at Plot no. IV/A-5 (P), Bokaro Industrial Area, Balidih at Village : Gorabali, P.S. : Jaridih, Distt. : Bokaro, Jharkhand” (Proposal No. : SIA/JH/IND1/413313/2023) - regarding.

Ref: Your application no.- Nil, dated – 10.01.2023.

Sir,

It is in reference to the project “Expansion of Existing MS Ingot/Billet production from 13200 TPA to 118800 TPA through existing 2x8T Furnace & installing additional 2x10T Furnaces along with CCM-1x2strand, Rad- 4/7 and production of 29700 TPA to 117600 TPA by increasing Rolling Mill capacity 1x20 TPH of M/s Mangalam Ispat at Plot no. IV/A-5 (P), Bokaro Industrial Area, Balidih at Village : Gorabali, P.S. : Jaridih, Distt. : Bokaro, Jharkhand” submitted by you for seeking Terms of Reference (ToR).

This is a existing project which has been taken for appraisal on 11.01.2023.

This is a case of violation which has been taken for appraisal on 11.01.2023 in the light of OM no. F.No.22-21/2020-IA.III [E 138949] dated 28.01.2022 of MoEF&CC, Govt. of India, order passed by Hon'ble Apex Court in the matter of civil appeal no. 7576-7577 of 2021 in Electrosteel Steels Ltd. vs Union of India and SOS vide OM no. F.No. 22-21/2020-IA.III dated 07.07.2021 issued by MoEF&CC, Govt. of India.

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

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project falls under item 3 (a) Metallurgical Industries (Ferrous & Non-Ferrous) as per EIA Notification, 2006.

M/s Mangalam Ispat is located at Plot No. IV/A-5(P), Bokaro Industrial Area, Balidih, Bokaro, Jharkhand on the total area of 3.20 Ha (7.91 Acres). This is a violation project since the company has installed Induction Furnace with a capacity of 52800 TPA (16T x 10 Heats x 330 days) M.S. Ingot without obtaining prior EC. Hence, it attracts provisions of S.O. 804 (E) issued by MoEF&CC dated 14.03.2017 and OM, dated 07.07.2021 regarding SOP for identification and handling for the projects under Violation.

M/s Mangalam Ispat is a partnership firm registered in the state of Odisha having its main object in the area of Steel and Allied products. The Registered/Head office of the Firm is situated at TTT/20, Ground Floor, Civil Township, Rourkela, Odisha – 769012.

The company has Consent to Establish (CTE) vide Ref. No. 3054, dated 17.05.2003 (in the name of M/s Hanuman Alloys Pvt. Ltd. for M.S. Rods – 50.0 MT/Day, total 90 TPD) and obtained the Consent to Operate (CTO) accordingly. The Company also obtained another Consent to Establish (CTE) vide Ref. No. 3736, dated 16.11.2006 (in the name of M/s Hanuman Alloys Pvt. Ltd. for M.S. Ingot & Pencil Ingot – 40.0 MT/Day) and obtaining the Consent to Operate (CTO) accordingly. The M/s Hanuman Alloys Pvt. Ltd. unit was sold by the lender Bank Punjab National Bank under the SARFESI Act 2002. The unit was purchased and acquired by M/s Mangalam Ispat on 24.08.2018 and CTO obtained accordingly since 2019 onwards.

Latest CTO was obtained vide ref No. JSPCB/HO/RNC/CTO-7311239/2020/551, dated 03.03.2020 (for M.S. Ingot 40 TPD & M.S. Rod 90 TPD) for the period up to 31.12.2024. The Company has installed Induction Furnace with a capacity of 52800 TPA (16T x 10 Heats x 330 days) M.S. Ingot under violation.

The company now proposes Expansion of Existing MS Ingot/Billet production from 13200 TPA to 118800 TPA through existing 2x8T Furnace & installing additional 2x10T Furnaces along with CCM-1x2strand, Rad- 4/7 and production of 29700 TPA to 117600 TPA by increasing Rolling Mill capacity to 1x20TPH Plot No. IV/A-5(P), Bokaro Industrial Area, Balidih, Bokaro, Jharkhand within the existing plant area of 3.20Ha (7.91 Acres). After reviewing the various probable options including economic viability, power balancing, implementation schedule, it was concluded that the above set up would be best suited for the project.

Khata No.	Plot No.	Area
42	2489(P)	0.23
50	2490(P)	0.33
	2487(P)	0.10
134	2491(P)	0.34
34	2492(P)	0.34
95	2493(P)	0.22

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59	2494(P)	0.41
65	2495(P)	0.46
	2488(P)	0.18
121	2496(P)	0.08
23	2497(P)	0.16
	2499(P)	0.06
21	2498(P)	0.28
	2484(P)	0.12
	2486(P)	0.14
56	2481(P)	0.57
	2502(P)	0.18
147	2482(P)	0.15
177	2483(P)	0.15
	2485(P)	0.08
120	2501(P)	0.20
	2514(P)	0.07
125	2505(P)	0.06
Total		7.91

Latitude & Longitude of the project:

Corner	Latitude	Longitude
A	23°40'58.27"N	86° 03'32.11"E
B	23°40'55.51"N	86° 03'30.05"E
C	23°40'55.42"N	86° 03'30.07"E
D	23°40'54.90"N	86° 03'29.59"E
E	23°40'54.68"N	86° 03'29.44"E
F	23°40'54.50"N	86° 03'28.93"E
G	23°40'55.34"N	86° 03'27.65"E
H	23°40'55.13"N	86° 03'27.60"E

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I	23°40'53.52"N	86° 03'27.96"E
J	23°40'49.23"N	86° 03'31.93"E
K	23°40'54.56"N	86° 03'35.94"E

Cost incurred under violation (existing facilities) is Rs. 13.89 Cr. The total estimated cost of the project after the proposed expansion will be Rs 22.66 Cr. (i.e. Violation project cost - Rs. 13.89 Cr. + Proposed project cost- Rs. 8.768 Cr.

Employment Generation after the proposed project will be 270 direct employment and approximately 40-50 people will be employed during the construction phase and will be recruited from the local villages surrounding the project site.

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-320 that is 1.40km to the project site. The capacity of different existing and proposed units is as follows:

S. No.	Plant Equipment	As per CTE & CTO		Implemented		Implemented under Violation		Proposed Units		Final (Exist. + Prop.)		Remarks		
		(@ 330 working days/year)				(@ 330 working days/year; Induction Furnace: 10heats/day)								
		Config (TPH)	Prod. Cap. (TPA)	Config (TPH)	Prod. Cap. (TPA)	Config. (TPH)	Prod. Cap. (TPA)	Config. (TPH)	Prod. Cap. (TPA)	Config. (TPH)	Prod. Cap. (TPA)			
1	MS Ingot	-	13200 (40 TPD)	2 x 8	52800	2 x 8T	52800	1 x 10	33000	2 x 8 + 2 x 10	118800	Unit installed in F.Y. 2007-08 without prior EC, (Well before purchase by the current PP)		
						1 x 10T (Construction started)	33000					Installation initiated for 1 x 10 TPH induction furnace, out of the proposed 2x10 TPH Induction Furnace		
2	Rolling Mill	-	29700 (90 TPD)	1 x 10 TPH	29700	-	-	1 x 20	117600	1 x 20	117600	Modification and Expansion of Rolling Mill for Hot Charging (Billet/ Ingot).		
3	Reheating Furnace	-	29700	1 x 10 TPH	29700	-	-	1 x 10	59400	1 x 10	59400	No change. Only increase in working hrs. from 10 to 20 hrs. Will be operated only in emergency.		

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Presently the unit is having a connected load of 6 MVA. Total power requirement for the project after expansion is envisaged as 13 MVA, which will be met from DVC.

Total Raw material requirement after the proposed expansion of plant is given below :

Induction Furnace with CCM: (Billets – 360TPD ~ 118800 TPA)				
Raw material	Specific Consumption /Ton	Consumption TPA	Source	Distance & Mode of Transportation
Sponge Iron	0.80	95040	Local Plant in Bokaro, Ramgarh, Giridih etc.	40 to 120 Km By Road
Cast Iron/ Pig Iron	0.30	35640		
MS Scrap	0.15	17820		
Ferro Alloys	0.002	240		
TOTAL	1.252	148740		
Rolling Mill: (Direct Hot Rolling– 117600 TPA)				
Hot M.S. Billets	1.01	118800	In-house	Direct charging from CCM

The total make-up water requirement of the plant is estimated at 182.0 cum/day. The water requirement will be met from ground water through bore well.

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

Details of Year-Wise Production under violation from Installed Facilities

Year	MS Ingot		MS Rod	
	Total production	Production Under Violation	Total production	Production Under Violation
F.Y.2018-19	-	-	-	-
F.Y.2019-20	8,752.395 TPA	4752.40	-	-
F.Y.2020-21	22,884.455 TPA	10,884.46	-	-
F.Y.2021-22	25,400.020 TPA	13400.02	2,117.310 TPA	Nil
F.Y.2022-23	16,239.660 TPA	6022.17	4,066.050 TPA	Nil

STATUTORY CLEARANCES

1	LOI/Lease docs	:	Lease Deed.
2	CO	:	The CO, Chas (Bokaro) vide memo no. 1924, dated 12.08.2022 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyani & Register II.

Signature

Signature

Signature

3	DFO Wild Life	:	DFO Wildlife, Hazaribagh vide letter no. 1290, dated 14.07.2022 certified that the proposed project site is outside Eco Sensitive Zone of Parasnath & Topchanchi Wildlife Sanctuary.
4	DFO Forest Distance	:	DFO, Bokaro vide letter no. 2563, dated 10.09.2022 certified that the distance of notified forest is 100 meters from project site.
5	Emission Consent Order (ECO) & Discharge Consent Order (DCO)	:	<ul style="list-style-type: none"> i. ECO issued by JSPCB vide Ref. no. DB/8057/N-3633, dated 12.11.2002. ii. DCO issued by JSPCB vide memo no. DB/8294/W-3794, dated 21.06.2003.
5	No Objection Certificate (NOC) & Consent to Operate (CTO)	:	<p>NOC granted by JSPCB vide :</p> <ul style="list-style-type: none"> i. Ref. no. 3736, dated 16.11.2006. ii. Memo no. 3054, dated 17.05.2003. <p>CTO granted by JSPCB vide :</p> <ul style="list-style-type: none"> i. Memo no. D-3194 (C), dated 15.10.2013. ii. Ref. no. PC/CTO/DHN/206359/D-965 (C), dated 08.04.2016. iii. Ref. no. JSPCB/HO/RNC/CTO-4215911/2019/403, dated 26.02.2019. iv. Ref. no. JSPCB/HO/RNC/CTO-7311239/2020/551, dated 03.03.2020.

Public Hearing to be conducted as per EIA notification, 2006.

The Project Authorities have declared that the baseline data is being generated for the period December, 2022 to February, 2023. Additional one month study for March, 2023 is to be done.

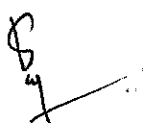
Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meetings held during 09th, 10th, 11th, 12th, 13th and 14th January, 2023, the Committee recommends for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study and alongwith the following specific conditions as recommended by SEAC:

SEAC, Jharkhand has suggested the ToRs in its 100th meeting 09th, 10th, 11th, 12th, 13th and 14th January, 2023 and SEIAA, Jharkhand has approved the ToRs in its 101st meeting held on 23rd & 24th January, 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. Project Description

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

4. Site Details

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

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

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

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

6. Environmental Status:

- i. Determination of atmospheric inversion level at the project site and site-specific micro- meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.
- ii. AAQ data (except monsoon) at 8 locations for PM10, PM2.5, SO2, NOX, CO and other parameters relevant to the project shall be collected. The monitoring stations

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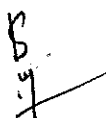
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- shall be based CPCB guidelines and take into account the pre-dominant wind direction, population zone and sensitive receptors including reserved forests.
- iii. Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in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

7. Impact and Environment Management Plan:

- i. Assessment of ground level concentration of pollutants from the stack emission based on site-specific meteorological features. In case the project is located on a hilly terrain, the AQIP Modelling shall be done using inputs of the specific terrain characteristics for determining the potential impacts of the project on the AAQ. Cumulative impact of all sources of emissions (including transportation) on the AAQ of the area shall be assessed. Details of the model used and the input data used for modelling shall also be provided. The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any.
- ii. Water Quality modelling - in case of discharge in water body
- iii. Impact of the transport of the raw materials and end products on the surrounding environment shall be assessed and provided. In this regard, options for transport of raw materials and finished products and wastes (large quantities) by rail or rail-cum road transport or conveyor- cum-rail transport shall be examined.
- iv. A note on treatment of wastewater from different plant operations, extent recycled and reused for different purposes shall be included. Complete scheme of effluent treatment. Characteristics of untreated and treated effluent to meet the prescribed standards of discharge under E(P) Rules.
- v. Details of stack emission and action plan for control of emissions to meet standards.
- vi. Measures for fugitive emission control.







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

8. Occupational health:

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

9. Corporate Environment Policy:

- i. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.
- ii. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions? If so, it may be detailed in the EIA.

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- iii. What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions? Details of this system may be given.
 - iv. Does the company have system of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report.
10. Details regarding infrastructure facilities such as sanitation, fuel, restroom etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during operation phase.

11. Enterprise Social Commitment (ESC)

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

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

- 1. Complete process flow diagram describing each unit, its processes and operations, along with material and energy inputs & outputs (material and energy balance).
- 2. Details on blast furnace/ open hearth furnace/ basic oxygen furnace/ladle refining, casting and rolling plants etc.
- 3. Details on installation/activation of opacity meters with recording with proper calibration system
- 4. Details on toxic metals including mercury, arsenic and fluoride emissions
- 5. Details on stack height requirement for integrated steel
- 6. Details on ash disposal and management -Non-ferrous metal
- 7. Complete process flow diagram describing production of lead/zinc/copper/ aluminium, etc.
- 8. Raw materials substitution or elimination
- 9. Details on smelting, thermal refining, melting, slag fuming, and Waelz kiln operation
- 10. Details on Holding and de-gassing of molten metal from primary and secondary aluminum, materials pre-treatment, and from melting and smelting of secondary aluminium
- 11. Details on solvent recycling
- 12. Details on precious metals recovery

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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. Specific Conditions:

1. The State Govt. / SPCB to take action against the project proponent under the provisions of section 19 of the Environment (Protection) Act, 1986.
2. The project proponent shall be required to submit a bank guarantee equivalent to the amount of remediation plan and natural and community resource augmentation plan with the SPCB prior to the grant of EC. The quantum shall be recommended by the SEAC and finalized by the regulatory authority. The bank guarantee shall be released after successful implementation of the EMP, followed by recommendations of the SEAC and approval of the regulatory authority.
3. Assessment of ecological damage with respect to air, water, land and other environmental attributes. The collection and analysis of data shall be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986, or an environmental laboratory accredited by NABL, or a laboratory of a Council of Scientific and Industrial Research (CSIR) institution working in the field of environment.
4. Preparation of EMP comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation.
5. An assessment of the cumulative impact of all development and increased in habitation being carried out or proposed to be carried out by the project or other agencies in the core area, shall be made for traffic densities and parking capabilities in a 2 kms radius from the site. A detailed traffic management and a traffic decongestion plan drawn up through an organization of repute and specializing in Transport Planning shall be submitted with the EIA and the plan to be implemented to the satisfaction of all the concerned state departments and implementing agencies".
6. Management of solid waste and the Construction & Demolition waste for the project vis- a-vis the Solid Waste Management Rules, 2016 and the Construction & Demolition Rules, 2016.
7. Details of all construction input should be furnished for assessment of Ecological damage/Environmental damage.
8. The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter in the EIA report by the accredited consultants.



9. Funds allocation for Corporate Environment Responsibility (CER) shall be made as per Ministry's O.M. No. 22-65/ 2017-IA.III dated May, 2018 for various activities therein. The details of fund allocation and activities for CER shall be incorporated in EIA/EMP report.
10. The prescribed TORs would be valid for a period of three years for submission of the EIA / EMP reports, as per the O.M. No. J-11015/109/2013-IA.II(M), dated 12.01.2017.

Sd/-

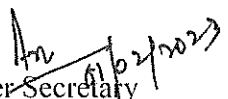
Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand.

Memo No.-EC/SEIAA/2022-23/2722/2023/ 401

Dated: 01/02/2023

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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