



State Level Environment Impact Assessment Authority, Jharkhand

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Letter No.-EC/SEIAA/2021-22/2409/2021

Ranchi. Date:

To: **M/s Dadijee Steel Manufacturing & Trading Pvt. Ltd.**
Sri Pradeep Kumar Ram (Director),
At – Gumo, Ward No. - 19,
Thana – Telaiya, Pargana - Gumo,
Dist – Koderma, Jharkhand – 825409.

Sub: Prescribing of ToR to “Proposed expansion, installed production capacity of the industrial unit will increase to ~980 MT/day (3,23,400TPA) of steel billets, metal refining (using LRF) ~50MT/batch, continuous casting (using CCM) ~50MT/hr ~950 MT/day (3,13,500 TPA) of rolled products (different rolled sections) and slag crushing (~40mt/hr) of M/s Dadijee Steel Manufacturing & Trading Pvt. Ltd., Village : Gumo, Tehsil : Koderma, Dist. : Koderma, Jharkhand (Proposal No. SIA/JH/IND/66658/2021) - regarding.

Ref: Your application no.- Nil dated – 02.09.2021.

Sir,

It is in reference to the project “Proposed expansion, installed production capacity of the industrial unit will increase to ~980 MT/day (3,23,400TPA) of steel billets, metal refining (using LRF) ~50MT/batch, continuous casting (using CCM) ~50MT/hr ~950 MT/day (3,13,500 TPA) of rolled products (different rolled sections) and slag crushing (~40mt/hr) of M/s Dadijee Steel Manufacturing & Trading Pvt. Ltd., Village : Gumo, Tehsil : Koderma, Dist. : Koderma, Jharkhand” submitted by you for seeking Terms of Reference (ToR).

This is a expansion project which has been taken for appraisal on 17.09.2021.

The proposal was considered by the committee to determine the “Terms of Reference (TOR)” for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA Notification, 2006 and amendments thereafter. For this purpose the Project Proponent has submitted the prescribed Form - I & PFR the proposed project falls under item 3 (a) Metallurgical Industries (Ferrous & Non-Ferrous) as per EIA Notification, 2006.

Project background :

M/s Dadijee Steel Manufacturing & Trading Pvt. Ltd., Jhumri Talaiya, Koderma (Jharkhand), is an existing secondary steel based industrial unit (engaged in steel melting and casting using induction furnace) at the site.

The existing industrial unit has installed production capacity of ~90 MT/day of steel ingots using MS scrap/sponge iron (DRI) and ferro-alloys as basic raw material.

Now the industrial unit is planning for capacity expansion and augmentation. In the process the industrial unit will increase its molten metal generation capacity, facility for metal refining (using LRF) and continuous casting (using CCM), and re-rolling mill (of matching capacity).

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After proposed expansion, installed production capacity of the industrial unit will increase to ~980 MT/day (3.23.400TPA) of steel billets, metal refining (using LRF) ~50MT/batch, continuous casting (using CCM) ~50MT/hr ~950 MT/day (3.13.500 TPA) of rolled products (different rolled sections) and slag crushing (~40mt/hr).

The estimated cost for the plant will be Rs. 60.0 Crores (Existing: 10 Crores & Proposed: 50 Crores).

Latitude & Longitude :

Latitude	Longitude
24°25'58.952"N	85°29'12.383"E
24°26'01.031"N	85°29'12.870"E
24°26'00.186"N	85°29'16.117"E
24°25'59.407"N	85°29'20.111"E
24°25'57.881"N	85°29'20.306"E
24°25'57.816"N	85°29'18.585"E
24°25'56.809"N	85°29'18.325"E
24°25'57.329"N	85°29'16.507"E
24°25'57.978"N	85°29'16.377"E

Details of Khata no. & Plot no. of the project site :

Khata No. : 153 & 180

Plot No. : 74 & 73

Project details :

S. No	Parameters	Description
1	Identification of project	Project falls under Metallurgical Industries (secondary metallurgical processing) Item 3(a) of the schedule of EIA notification of Sept 14, 2006 issued by MOEF & CC.
2	Project Proponent	M/s. Dadijee Steel Manufacturing & Trading Private Limited.
3	Brief description of nature of the project	After proposed expansion, installed production capacity of the industrial unit will increase to ~980 MT/day (3.23.400TPA) of steel billets, metal refining (using LRF) ~50MT/batch, continuous casting (using CCM) ~50MT/hr ~950 MT/day (3.13.500 TPA) of rolled products (different rolled sections) and slag crushing (~40mt/day).
4	Salient Features of the Project	
4.1	Proposed	Proposed expansion, installed production capacity of the

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S. No	Parameters	Description
	production capacity	industrial unit will increase to ~980 MT/day (3.23.400TPA) of steel billets. metal refining (using LRF) ~50MT/batch. continuous casting (using CCM) ~50MT/hr ~950 MT/day (3.13.500 TPA) of rolled products (different rolled sections) and slag crushing (~40mt/hr).
4.2	Total Plot Area	Total Plot Area –8.06 Acres
4.3	Location	Jhumri Telaiya, Jharkhand (India)
4.4	Water requirement	Water is required to meet process cooling water make-up (~80 m3/day) and domestic requirement (~20 m3/day). The cooling water will be normal raw water for rolling mill activities and RO treated water for induction furnaces.
4.5	Source of water	Borewell
4.6	Wastewater	The domestic water consumption will result in generation of ~12 m3/day of domestic wastewater. The wastewaters will be treated and entirely reused.
4.7	Man Power	Around 300 person
4.8	Electricity/Power requirement	The electrical power requirement will increase to ~24000 kVA. One DG set of 500 kVA already installed (as power back-up).
4.9	Alternative site	The proposed addition will be established in the existing plant premises only.
4.10	Land form. Land use and land ownership	Private land, owned by M/s. Dadijee Steel Manufacturing & Trading Private Limited

Salient feature of the plant :

S.No.	Particulars	Existing	Proposed expansion	Total
1.	Unit processes/ machinery	Induction furnace (10 MT/heat) Required utilities	Induction furnaces (100 MT/heat)*	
			Ladle refining furnace (LRF) (~50MT/batch)	
			Continuous casting (con cast) machine (50 T/hr)	
			Reheating furnace (20 MT/heat)	
			Rerolling mill (50MT/hr)	
			Slag crusher Required utilities(40MT/hr)	
2.	Gross melting capacity	~90 MT/day		~980 MT/day
3.	Installed production capacity	~90MT/day (steel ingots/billets)		~980 MT/day (billets) & ~950 MT/day (steel rolled sections)
4.	Fixed capital investment (Rs)	10 Cr	50 Cr	60 Cr
5.	Electrical power requirement	~6.5MVA	~17.5MVA	~24MVA
6.	Raw material requirement (externally sourced/indigenous) Source – TATA steel long products limited Saraikela Kharsawan Jharkahnd Mode of Transportation- By Road			
	• Sponge iron. Pig iron/ MS scrap	~129 MT/day	~1257MT/day	~1386 MT/day
	• Ferro- alloys	~1 MT/day	~13 MT/day	~14 MT/day
	• Ingots/ billets (Only for rolling)	NIL	~500 MT/day	~500 MT/day

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7.	Total land area	~ 12140.6 m ²	~ 21714 m ²	~33854 m ²
8.	Manpower requirement	~80	~220	~300
9.	Process water requirement	~20 m ³ /day	~60 m ³ /day	~80 m ³ /day
10.	Process wastewater generation	~2 m ³ /day	~08 m ³ /day	~10 m ³ /day
11.	Domestic water requirement	~4 m ³ /day	~16 m ³ /day	~20 m ³ /day
12.	Domestic wastewater generation	~3 m ³ /day	~09 m ³ /day	~12 m ³ /day
13.	Solid waste generation • Slag • Mill scale	~35 MT/day NIL	~425 MT/day ~10 MT/day	~460 MT/day ~10 MT/day
14.	Hazardous waste • APCD dust (35.1) • Waste oil/lubricant (5.1)	~300 kg/day ~100 kg/year	~2700kg/day ~400kg/day	~3000 kg/day ~500 kg/year
15	APCD- Bag-House Filter	01	02	03
16	Fuel	HSD- DG sets Electricity- Induction furnace	HSD Electricity, Oxygen- LRF & Coal- Reheating furnace (~70 kg/tunes)	

Employment details :

Existing	Proposed	Total
~80	~220	~300

Site Analysis :

The Plant site is located at Jhumri Telaiya, Jharkhand (India). The Project is located near to telaiya town of Jharkhand. it is well connected to Gajhanndi Road at a distance of approx. 170 m. which further connects to NH 31 in south direction.

The site is connected by road and railways. The neighboring city Koderma located about 11 km away from project site. The nearest railway station is Koderma Railway station about 13 km in ENE direction. The Nearest Airport is Gaya International Airport about 93 km away from project site.

Hazardous Waste & Solid Waste Management :

Hazardous waste will include;

- Sludges from air pollution control devices @ 3000 kg/day (Category 35.1 of Schedule-I) – the waste will be stored on-site in HDPE bags, inside a lined and covered room before being disposed through the State's common hazardous waste disposal facility.
- Waste/used oil/lubricant @ 500 kg/annum (Category 5.1 of Schedule-I) – the waste will be stored on-site in a covered room before being disposed through authorized recyclers.

Solid waste will include;

- Slag @ ~420 MT/day – reusable as building material (especially in road construction).
- Mill scale @ 10 MT/day – the waste has commercial worth and will be sold.

STATUTORY CLEARANCES :

1	CO	:	The CO, Koderma vide letter no. 107, dated 27.09.2019 has mentioned the plot nos. of the project is not recorded as "Jangle Jhari" in R.S. Khatiyani.
2	DFO Wild Life	:	DFO, Wildlife Hazaribagh vide letter no. 1383, dated 17.08.2021 certified that the National Park & Wildlife Sanctuary is not within 10 km from project site and proposed project is not situated in any ESZ.
3	DFO Forest Distance	:	DFO, Koderma Division vide letter no. 2608, Dated 08.07.2019 certified that the distance of notified forest is 280 m from proposed project site.

Specific observations of the committee during appraisal are as under :

- The PAs were asked to submit self certified compliance report of CTO.
- Application copy submitted to CGWA for drawal of ground water.
- Revised lay out plan.
- Environmental Monitoring test reports
- Details of LRF process.

The PAs have submitted the above documents

SEAC, Jharkhand has suggested the ToRs in its 90th meeting dated 14th, 15th, 16th, 17th & 18th September, 2021 and SEIAA, Jharkhand has approved the ToRs in its meeting held on 20th, 21st & 22nd September, 2021.

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

A. Standard Terms of Reference

- Executive Summary
- 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.
- 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.



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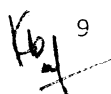


- vii. Noise levels monitoring at 8 locations within the study area.
- viii. Soil Characteristic as per CPCB guidelines.
- ix. Traffic study of the area. type of vehicles. frequency of vehicles for transportation of materials. additional traffic due to proposed project. parking arrangement etc.
- x. 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.
- 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.

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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. ADDITIONAL TOR FOR INTEGRATED STEEL PLANT

1. Respirable Suspended particulate matter (RSPM) present in the ambient air must be analyzed for source analysis - natural dust/RSPM generated from plant operations (trace elements). The RSPM shall also be analyzed for presence of poly-aromatic hydrocarbons (PAH), i.e. Benzene soluble fraction, where applicable. Chemical characterization of RSPM and incorporating of RSPM data.
2. All stock piles will have to be on top of a stable liner to avoid leaching of materials to ground water.
3. Plan for the implementation of the recommendations made for the steel plants in the CREP guidelines.
4. Plan for slag utilization
5. Plan for utilization of energy in off gases (coke oven, blast furnace).

D. 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.

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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 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.

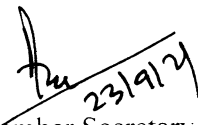
Sd/-
Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand.

Memo No.-EC/SEIAA/2021-22/2409/2021 158

Dated: 23/09/2021

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.
