



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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Letter No.- EC/SEIAA/2023-24/2900/2023/

Ranchi, Date :

To: M/s Anand Mines & Minerals,
Prop. - Shri Anand Rajesh S/o Shri Captain Anand,
At+P.O. – Jhumri Tilaiya, P.S.-Tilaiya ,
District - Koderma, Jharkhand.

Amendment

Sub: Amendment of Environmental Clearance for the project “Thambh Stone Deposit of M/s Anand Mines & Minerals (Prop. : Shri Anand Rajesh) at Village : Thambh, Thana : Chandwara, District : Koderma, Jharkhand (0.52 Ha)” (Proposal No. : SIA/JH/MIN/303200/2023) – regarding.

Ref: Your application no. Nil, dated – 14.08.2023.

Sir,

1. This is in continuation of Environmental Clearance (EC) issued by the State Level Environment Impact Assessment Authority (SEIAA), Jharkhand vide letter no.- EC/SEIAA/2022-23/2787/2023/17, Ranchi dated 12/04/2023 in favour of “Thambh Stone Deposit of M/s Anand Mines & Minerals (Prop. : Shri Anand Rajesh) at Village : Thambh, Thana : Chandwara, District : Koderma, Jharkhand (0.57 Ha)” (Proposal No. : SIA/JH/MIN/422438/2023).

2. Further you have applied online application no. : SIA/JH/MIN/303200/2023 requesting for amendment of EC in terms of reducing the area from 1.4025 acre to 1.2892 acres to the above mentioned project proposal.

3. Your request has been examined by the State Level Expert Appraisal Committee (SEAC), Jharkhand in its 107th meeting held on 16th, 17th, 18th, 19th, and 20th August, 2023. based on the information furnished/provided and discussion held, the State Level Expert Appraisal Committee, (SEAC) recommended to issue **amendment of earlier Environmental Clearance** issued vide letter no. : EC/SEIAA/2022-23/2787/2023/17, Ranchi, Date : 12.04.2023, as the following:

“This is an amendment project which has been taken for appraisal on 18.08.2023.

Project Category : B2 – Application for Environment Clearance (For Amendment)

EC Application for: : Proposed Capacity- 19350.0 cum/annum or 52245.0 TPA.

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Thambh Stone Deposit obtained Environmental Clearance vide SEIAA Letter NO EC/SEIAA/2022-23/2787/2023/17, dated 12/04/2023 considering the project area 1.4025 Acres or 0.57 ha. The DFO, Koderma forest Division vide its letter no 5027 dated 22/12/2022 informed that the distance of lease boundary from notified forest considering the area - 1.4025 acre lies only 245 M.

In View of the above, the mining lease area of Thambh Stone Deposit is reducing from 1.4025 acre to 1.2892 acres. While considering the area 1.2892 Acre the distance of notified / demarcated forest from the proposed ML area became 252 m as per DFO, Koderma Forest Division vide letter no. : 863, dated 24.02.2023

PROJECT & LOCATION DETAILS:

Sl	Parameter	Details	
1	Project Name	: Thambh Stone Deposit	
2	Lessee:	: M/s Anand Mines & Minerals Prop. -Sri Anand Rajesh S/o- Sri Captain Anand. At+P.O. - Jhumritilaiya, P.S.-Tilaiya, District-Koderma, Jharkhand	
3	Lease Address	: Village – Thambh, Thana-Chandwara, District – Koderma, State :- Jharkhand.	
4	Lease Area	: 0.52 ha	Acres- 1.2892 Acre
5	Type of Land	: Non Forest – Raiyati Land	
6	Project Cost	: Rs. 20 Lakhs	
7	EMP Budget	: Capital: 2.715 Lakhs	Recurring: 4.27 Lakh / year
9	New or Expansion	: New	
10	Mineable Reserves	: Cu.m.: 192100 cum	Tonnes: 518670.0
11	Mine Life	: 10 years	
12	Man power	: 16	
13	Water Requirement	: 5.20 KLD (Drinking: 0.16 KLD, Dust Suppression: 2.89 KLD, Plantation: 2.09 KLD)	
14	Water Source	: From Nearby villages by tankers	
15	DG Set / power	: 200 kVA	
16	Crusher	: No	
17	Nearest Water Body	: Margoja Nadi. Approx. 2.5 km towards WNW direction of mine site. Tilaiya Reservoir. Approx. 3.50 km towards SSW direction of mine site.	
18	Nearest Habitation	: Chandwara, 6.5 km	
19	Nearest Rail Station	: Urwan Railway station, approx. 7.50 km towards SE direction.	
20	Nearest Air Port	: Gaya Airport, approx. 61.0 km towards NW direction.	

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21	Nearest Forest	:	Protected Forest Approx. 0.4 km towards NNW direction of mine site.
22	Road & Highways	:	NH-20. Approx. 7.0 km. in EAST direction. NH-19. Approx. 9.0 km in SSW direction.

CO-ORDINATES

1	Latitude	From 24°24'07.28"N	To 24°24'12.64"N
2	Longitude	From 85°24'53.48"E	To 85°24'56.86"E

LAND DETAILS :

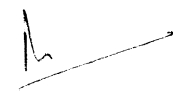
Khata No.	Plot No.
38	68 & 69
45	64 (P)
53	61
76	63 (P)
96	60 (P)

STATUTORY CLEARANCES :

1	LOI/Lease docs	:	The Letter of Intent (LoI) has been issued by DMO. Koderma vide memo no. 469/M. dated 04.03.2023.
2	CO	:	The CO. Chandwara vide letter no. : 661, dated 08.09.2022 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyani & Register II. As per the CO certificate there are 14 houses within 500 m. The PAs have submitted an EMP for the people residing in these houses.
3	DMO	:	DMO. Koderma vide memo no. 479/M. dated 06.03.2023 certified that 01 other mining lease area (0.92 Acre) exists within 500 m radius from proposed project site and total area is 2.3225 Acre.
4	DFO Wild Life	:	DFO. Wildlife Hazaribagh vide letter no. : 1789, dated 10.09.2022 certified that the proposed project site is outside Eco







			Sensitive Zone of Koderma Wildlife Sanctuary.
5	DFO Forest Distance	:	DFO, Koderma Forest Division vide letter no. : 863, dated 24.02.2023 certified that the distance of reserved / protected forest is 252 m from proposed project site.
6	DSR	:	The DC – cum – District Magistrate, Koderma vide letter no. 480/M, dated 06.03.2023 has informed that this project is part of District Survey Report (DSR) of Koderma district and accordingly necessary action with regard to Environmental Clearance can be taken.
7	Gram Sabha	:	Gram Sabha conducted on 28.08.2022.
8	Mine Plan Approval	:	DMO, Koderma vide letter no. 1549, dated 11.08.2023.
9	Previous Environmental Clearance (EC)	:	Previous EC granted by SEIAA vide letter no. EC/SEIAA/2022-23/2787/2023/17, dated 12.04.2023.

Working Details

1	Mining Method	:	Opencast mechanized mining method	
2	Quarry Area	:	0.52 ha	Life of Mine – 10 years
3	Waste Generation	:	5 years– 1495.0 cum or 4036.5 tons	
4	Stripping Ratio	:	0: 0.2	
5	Working Days	:	300	
6	Bench: size & No	:	3 m x 3 m	
7	Elevation of Mine	:	402 AMSL to 403 AMSL	
8	Ground Level Elevation	:	402 AMSL	
9	Ultimate Working Depth	:	387 AMSL	
10	Water Table	:	380AMSL (15 mbgl)	
11	Topography of Mine	:	Area represents a flat terrain	
12	Explosive Requirement	:	70 kg/day	

13	Diesel/Fuel requirement	:	70 L/day
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Production Details

Year	Production of stone (cum)	Production of stone (tons)	Waste Generation (CuM)	Bench RL in Meters
1 st	17800.00	48060.00	750.00	403 mRL – 399 mRL
2 nd	19000.00	51300.00	745.00	403 mRL – 399 mRL
3 rd	19200.00	51840.00	-	399 mRL – 396mRL
4 th	19350.00	52245.00	-	399 mRL – 396 mRL
5 th	19348.15	52240.00	-	396 mRL – 393 mRL
Total	94698.15	255685.00	1495.00	

Land Use

Pattern of Utilization	Existing (Ha)	Plan period (Ha)	Conceptual stage (Ha)
Quarry	--	0.242	0.242 (Entire area shall be left as water reservoir for rain water harvesting).
Road	0.006	Comes under quarry	
Plantation	--	0.278	0.278
Total	0.006	0.52	0.52
Unused Area	0.514	0	0.000
Total applied area	0.52	0.52	0.52

ENVIRONMENT MANAGEMENT

Green Belt Development

S. No.	LOCATION		Area/Length	No of Trees
1	Safety Zone	:	0.278 ha	695
2	Haul /Approach Road	:	0.250 km	250
3	Distributed in Anganwadi, Panchayat Bhawan or in schools		-	100

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Solid Waste Management

- Total 1495.0 cum or 4036.5 tons waste will be generated during the plan period which shall be used in making and maintenance of haul road and village road, so there is no requirement of waste dumping Plan for this mining plan period.

Water Quality Management

- Mining is planned to above the ground water table. In case any intersection is likely, mining activities will be stopped 2m above the Ground Water Table.
- The rain water during rainy season will be collected in a pit and shall be use for dust suppressor and plantation. Excess water, if any shall be discharged in natural stream after settling of suspended particles in the pit. Pump having required capacity will be installed to lift accumulated rain water from working pit and pumped to the settling tank.
- Garland drain shall be made around the Waste dump and the rain water shall be collected in garland drain and allowed to settle in a small pit for settling suspended particles before allowing discharge to natural drainage system. Check Pits and Retainer walls shall be constructed to prevent water flowing into the lease area from outside or from inside the lease area to the outside
- For domestic waste water Septic Tank with Soak Pit shall be provided. discharge from Soak Pit, if any shall be used for plantation.
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system shall be made available.

Air Quality Management

- Dust extractor or wet drilling shall be followed to control dust at source of emission during drilling.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce the dust generation.
- Controlled blasting to reduce dust emission and reduction in NOx emission
- All machineries and transport vehicles shall be properly maintained and pollution check will be done once in a year to keep the emissions from machineries and vehicle under control. Records for same to be maintained.
- Water sprinkling will be done on haul road to control emission of dust while transporting minerals and waste. Provision for water spray by tankers on 'kaccha road shall be done.
- Water sprinkling at loading area shall be done
- Use of personal protective equipment like dust mask e.t.c shall be put in practice
- Ambient air pollution monitoring shall be carried out every six months

Risk and Hazards

Following are the associated Risk and Hazards associated with the stone mining process

- Accident due to explosives;
- Accident due to operation of heavy mining equipment
- Fall of animal in to abundant pit



MITIGATION MEASURES

In order to take care of above hazard/disasters, the following control measures will be adopted:

- Opencast semi mechanized method of mining will be adopted
- Working will be carried out in one shift of 8 hours during day time only.
- No explosive will be stored at mine site.
- All applicable rules of MMR 1961, Mines Act-1952, Mines Rules 1955, MCR-1960, MCDR-1988 will be followed for safe, scientific & systematic working.
- The working will be done under the supervision of a Qualified Mines Manager.
- The height of the benches will more than the width of a bench.
- Working of mine, as per approved plans and regularly updating the mine plans.
- Permanent fencing will be provided at the top edge of opencast working.
- All protective equipment of a type approved by the DGMS, will be provided to the workers viz. foot wear, helmets, ear plug, dust mask, gloves, goggles, shin guards etc.

Undertaking submitted affirming:

- a. Ground water will be used only for domestic purpose and not be used for any mining activities or any other use.
- b. The District Survey Report has been prepared by a competent authority. Project Authorities will abide by any directives issued by any court of law in future.
- c. If any changes are noticed in future regarding the contiguous / cluster area report issued by the mines department, then the applicable laws / rules will be binding on the Project Authorities and all necessary steps will be taken in this regard
- d. The Boundary Pillars of the proposed mine lease area will be maintained properly.
- e. One day post monsoon baseline data related to environment monitoring will be submitted with the first compliance report.
- f. The plantation work will be completed within the first year of operation. Thereafter the same will be maintained up to the Conceptual stage of the Mine.
- g. Sufficient water spray using water tankers will be done for effective dust suppression within the mine lease area and on haul roads.
- h. All the mining machineries / equipment and transport vehicles should be maintained in good condition and annually tested for fitness and PUC and records to be maintained.
- i. If any tree felling than necessary permission shall be taken from the competent authority.



- j. Slope of the Water bodies to be stabilized using gabion plantation created at the end of life of the mine.
- k. Suitable safety protection measures shall be taken around the water bodies to prevent any human or animals falling in to the water bodies created at the end of life of the mine.
- l. Personal protective equipments such as protecting clothing, helmet, goggles or other garments or equipments designed to protect from injury or infection will be provided to working personnel.

The Project Authorities have submitted the above mentioned documents.

Based on the facts mentioned above the committee recommends that earlier issued Environmental Clearance should be amended as mentioned above alongwith rest other terms & conditions mentioned in previous Environmental Clearance letter no. **EC/SEIAA/2022-23/2787/2023/17**, Ranchi, Date : **12.04.2023** shall remain the same."

4. The recommendation of SEAC, Jharkhand in this regard has been examined by the State Level Environment Impact Assessment Authority, Jharkhand in its **108th** meeting held on **27th and 28th August, 2023** and decided **amendment of Environmental Clearance** to the said project proposal as recommended by SEAC alongwith all other terms and conditions of earlier EC letter no. **EC/SEIAA/2022-23/2787/2023/17**, Ranchi, Date : **12.04.2023** shall remain the same.

5. This issues with the approval of SEIAA, Jharkhand.

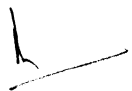
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Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand.

Memo No.- **EC/SEIAA/2023-24/2900/2023/259**

Ranchi, Date : **01/09/2023**

Copy to:

1. Additional Chief Secretary, Department of Forests, Environment & Climate Change, Govt. of Jharkhand.
2. Deputy Commissioner, District – Koderma, Jharkhand.
3. Divisional Forest Officer, Koderma Forest Division, Koderma, Jharkhand.
4. Divisional Forest Officer, Wildlife Division, Hazaribagh, Jharkhand.
5. Director IA Division, Monitoring Cell, MoEF and Climate Change, Indira Paryavaran Bhavan, Jorbag Road, Aliganj, New Delhi – 110003.
6. Integrated Regional Office, Ranchi, Ministry of Environment, Forest and Climate Change, 2nd Floor, Jharkhand State Housing Board (HQ), Harmu Chowk, Ranchi, Jharkhand – 834002.



7. District Mining Officer, Koderma, Jharkhand.
8. Member Secretary, Jharkhand State Pollution Control Board, Ranchi.
9. Secretary, Jharkhand State Expert Appraisal Committee, Ranchi.
10. Website.
11. Guard file.

Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand

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2/10/23