

Minutes of 238th Meeting of SEIAA, Odisha held on 12.09.2025

PARIVESH 1.0, AGENDA No.238.17	
Proposal No.	SIA/OR/MIN/414684/2023
Date of application	15.05.2023
File no.	414684/591-MINB1/05-2023
Project Type	Proposal for EC
Category	B2
Project/Activity including Schedule No.	1(a) Mining of Minerals
Name of the Project	Proposal for EC of Sarguna Decorative stone Deposit (3.680 ha) in village Sarguna, Binika Tehshil of Subarnapur District,Odisha
Name of the company/Organization	M/S Penguin Trading and Agencies Ltd
Location of Project	Village-Sarguna, Binika Tehshil-Subarnapur District-Odisha
ToR Date	N/A
Name of the Consultant	M/s Visiontek Consultancy Services Pvt. Ltd, Bhubaneswar

Proposal in brief:The highlights of the proposal as ascertained from the application and as revealed from proceedings/discussion held during the meeting of SEAC/SEIAA, are given as under.

1. This proposal is for Environmental Clearance of M/s Penguin Trading and Agencies Ltd. for Sarguna Decorative stone Deposit over an area 3.680 ha. located in village - Sarguna, Binika Tahasil of Subarnapur District of Sri Raman Rashmi Nayak.

2. **Category:** As per EIA Notification 2006 and subsequent amendment, the proposed project falls under Category B2 under item 1(a) - Mining of Minerals.

3. The mining lease was granted in favour of M/s Penguin Trading & Agencies Ltd. over an area of 9.093acres or 3.68 ha. in village - Sarguna No. 30 under Binika Tahasil of Subarnapur District, Odisha.

4. Letter of Intent was granted vide letter no 5935 dated 05.08.2021 which is valid for 30 years and the proposed project site doesn't fall under DLC land as certified by DFO, Subarnapur vide memo no 1760/3F dated 15.04.2023.

5. There are no existing / operating mines within 500m and 1km around the lease area and the same has been certified by Tahasildar.

6. Modified checklist is approved by Mining Officer & Tahasildar.

7. Mining plan was approved by Additional Director of Mines, Bhubaneswar, Odisha vide letter no 8093 dated 21.09.2022.

8. **Location and connectivity:** The applied M.L. area is located towards northern - west side of village - Sarguna of lease area in khata no. 193 & Plot no 944/P. The land is Abada Ajogya Anabadi category and kissam is pathar chattan. The proposed project comes under the Survey of India Toposheet No. E44 R166 (64O/16). It is bounded by geo coordinates - Latitude N 21° 05' 02.03" to N 21° 05' 10.02" and Longitude E 83° 46' 53.60" to E 83° 47' 02.90". The Murmuri Nala is flowing Northern side off the lease area at distance of 2.5 km. The Singhijuba Reserve Forest boundary passes at distance of 2.14km from western side of the applied M.L area. The said area is coming under Non-forest land. The highest and lowest elevations of the area are 161 mRL and 149 mRL respectively. Overall slope of the area is due north.

9. **Total reserves and production:** As estimated, geological reserve is 78,905 cum and mineable reserve is 49,755 cum. Volume of recoverable decorative stone for 5 years is 6800 cum.

Year	Volume of Rock Zone	Volume of Blocks (20%)	Volume of saleable (10%)	Volume of waste (70%)
	(m³)	(m³)	(m³)	(m³)

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1st Year	12500	2500	1250	8750
2nd Year	13000	2600	1300	9100
3rd Year	13500	2700	1350	9450
4th Year	14000	2800	1400	9800
5th Year	15000	3000	1500	10500
Total	68000	13600	6800	47600

10. **Mining method:** Mining lease area is spread over an area of 3.680 Ha. The mining operation shall be in semi-mechanized method to achieve the production level.
11. **Water requirement:** The water requirement in ML area will be 3.6KLD, The project will not consume any fresh water except for drinking, dust suppression and plantation. Rainwater harvesting in quarry pits by natural percolation method is proposed for the present project.
12. **Power requirement:** Minimal power required for office shall be taken by using D.G set (Capacity 225 KVA).
13. **Greenbelt:** It is proposed to develop a green belt in and along the periphery of the quarry lease area during the plan period. 194 number of saplings each year (970 numbers for 5 years) along the safety zone will be planted in area of 6050 sqm. (Species to be planted are Amla, Neem, Mango, Gamhari, Kasi, Bahada, Jamun, and Bamboo).

Year	Area to be planted (m ²)	No. of Saplings	Type of species to be Planted	Location
1st Year	1210	194	Amla, Neem, Mango, Gamhari, Kasi, Bahada, Jamun, and Bamboo	Along the Safety Zone
2nd Year	1210	194		
3rd Year	1210	194		
4th Year	1210	194		
5th Year	1210	194		
Total	6050	970		

14. **Solid waste management:** 47600 cum of waste will be generated during total plan period. About 40% of the generated waste will be utilized for maintenance and construction of the haul road, approach and existing roads in the surrounding areas periodically. Therefore, a total of 19040 cum of waste will be utilized for construction and maintenance of roads and remaining 28560 cum of waste will be dumped in the proposed temporary waste dump in the earmarked site of the lease. During the plan period, retaining walls and garland drains will be constructed for the proposed dump. In the first-year programme, retaining wall of dimension - 384 m x 0.75 m x 1m and garland drain of dimension - 370m X 0.5m x 0.5m will be constructed. Settling tank will be constructed to arrest the wash off water.
15. **Manpower:** Total number of employees in the proposed mine will be around 20.
16. **Project cost:** Estimated project Cost for this mine is Rs 2 crores. Estimated cost for environmental management is Rs.5.6 Lakhs / annum.

SL NO.	PROPOSED ACTION PLAN	EXPENSES PER YEAR (IN RS.)
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i)	Air Pollution Measures	90000
ii)	Water Pollution Measures	60000
iii)	Noise Pollution Measures	30000
iv)	Green Belt (Plantation)	70000
v)	Maintenance of Mining Equipments & Vehicles	200000
vi)	Environmental monitoring	50000
vii)	Health Check Up and Drinking Water Provision	60,000
		Rs. 5,60,000Annum

17. **Environment Consultant:** The Environment consultant **M/s Visiontek Consultancy Services Pvt. Ltd, Bhubaneswar** along with the proponent made a presentation on the proposal before the Committee on 13.06.2023.

18. The SEAC in its meeting held on dated **13-06-2023** decided to take the decision on the proposal after receipt of the following from the proponent. The proponent has furnished the compliance and the SEAC verified the same as follows:

S. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
1)	Copy of approved DSR after inclusion of proposed identified sairat source to be submitted. EC to be considered once DSR is approved.	DSR report is under preparation by State Mining & Revenue Department, which will be approved & submitted shortly. Attached as Annexure 1 .	Letter from District Magistrate & Collector Sub-Collector, Sonapur for preparation of DSR has been submitted.
i)	Layout of dump, stack, garland drain, settling pond along with their capacity details.	Layout of dump, stack, garland drain & settling pond have been reflected in the surface plan of approved mining plan. Capacity of Dump -17680m ³ wastes over an area of 0.416 Ha. Garland drain -370m x 0.5m x 0.5m Settling Pond – 15m x 14m x3m	-
ii)	Explore the possibility for usage of waste (fine sand) generated, for manufacture of sand.	The waste (fine sand) will be generated during the mining activity. A stone crusher will be installed inside the mine for crushing the waste materials to produce construction grade sand/material. Total waste generation - 47,600m ³ in 5 years. As per calculation approximately 96T/day waste will be generated. Considering 4 hr. operation in stone crusher, capacity of the crusher is estimated as 50 TPH. CTE & CTO will be taken from state pollution control board. Air pollution measure like installation of dry for systems will be installed at	-

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		hopper, screen, crusher & all transfer points of crusher plant.		
iv)	Detailed note on water management – water source, permission to be obtained/granted for using in mining purposes, plan to discharge the waste water and its treatment.	Water will be made available from the nearby village Sarguna. The water requirement for the mine is 6.1 KLD. Water tank of the local area. The surface run off from the lease area will carry silt which will be settled in the setting pond (630m ³). Silt material will be removed from the setting tank before & after monsoon every year. Further the retaining wall provided along the dump slope will retain the silts in water during rainy season.	-	
v)	The waste water will be generated while cutting granite, which is loaded with fines/silt, hence the project proponent shall suggest mitigation measures to protect the nearby nala from siltation due to surface runoff. Detail plan for surface water management also needs to be submitted.	Approximately 50 Ltr water is being used in cutting of 1m ³ granite, 75% waste water generates, which is loaded with silt / fines. On an average 2000 ltr/day of waste water will be generated during the cutting of 45m ³ of granite per day, which will store in the setting pond. After settlement of silts/fines, water will be reused for cutting of stone again.	-	
vi)	KML file shows already mining activity has been carried out earlier and hence, copy of Environmental Clearance for the same if obtained earlier.	During prospecting of the area the weathered material has been scraped and samples taken for resting purpose. So, no, mining activity has been carried out earlier on the said area.	-	

Considering the information furnished and the presentation made by the consultant, **M/s Visiontek Consultancy Services Pvt. Ltd, Bhubaneswar** along with the project proponent, the SEAC recommended for grant of Environmental Clearance upto lease period with **stipulated conditions subject to its inclusion in approved DSR as per Annexure – A and following additional conditions;**

Any Deficiency- Not included in the DSR

Whether SEAC recommended the proposal – The proposal was placed in the SEAC meeting held on **18.08.2023** and the SEAC recommended for grant of Environmental Clearance upto lease period with stipulated conditions.

- a) Haulage road shall be developed and maintained perennially and perpetually by the proponent in consultation with the concerned authority of the Govt.
 - b) The project proponent shall maintain periodic health check-up records of their employees and ensure use of face mask by workers in crushing and handling sections of the decorative stone quarry for ensuring that working personnel are not affected by silicosis.
 - c) The project proponent shall undertake re-grassing of the area or any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for fodder, flora, fauna etc. after ceasing mining operation that is at the time of mine closure.
- Accordingly, specific condition to be stipulated in EC of individual lease.

The proposal was placed in the 137th meeting of SEIAA held on 29.09.2023 and the Authority observed that this application for Sarguna Decorative Stone Mines sairat source is not approved in the DSR of

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Subarnapur District. The PP is required to submit approved DSR by Competent Authority for the applied lease.

Now the PP has submitted their ADS raised by SEIAA for consideration of EC.

Decision of Authority: Approved

After detailed deliberation, the authority approved the EC with standard and specific conditions as recommended by SEAC for a production of 3000 cum / annum (maximum production capacity) upto a period of 17 years i.e. life of the mine valid from the date of issue of EC.

Further, extension of EC shall be considered on submission of EC Compliance report, implementation of CER budget, implementation of EMP, Plantation undertaken, copy of lease agreement, revised mining plan and previous production figure duly authenticated by the Deputy Director of Mines / Mining Officer, Subarnapur.


Member Secretary, SEIAA

Signed by

Member, SEIAA


Chairman, SEIAA