

## Minutes of 182<sup>nd</sup> Meeting of SEIAA, Odisha held on 18.12.2024

PARIVESH 1.0, AGENDA No.182.21	
Proposal No.	SIA/OR/MIN/423892/2023
Date of application	19.04.2023
State file no.	423892/103-MINB1/04-2023
Project Type	Proposal for ToR
Category	B1
Project/Activity including Schedule No.	1(a) Mining of minerals
Name of the Project	Proposal for ToR of Balapadu Quartz & Quartzite Mines with proposed excavation of 54500 CUM/year of Quartz & Quartzite having an area of 55.394 Ha. Located at Plot No. 53/P&69/P of Khata No.18, Vill-Balapadu, Tahasil-Rayagada, District-Rayagada, Odisha of Sri Balakrishna Padhy.
Name of the company/Organization	Sri Balakrishna Padhy
Location of Project	Vill- Balapadu, Tahasil- Rayagada, District-Rayagada, Odisha
Whether submitted scrutiny fee (Yes/No)	Yes, e-challan reference ID- 382954E31D dated 11.12.2024 of Rs. 100000/-
Name of Consultant	M/s. Green Circle Inc. Gujarat

### 1. Proposal in brief:

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

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 amendment thereafter.
2. This proposal is for Terms of Reference for Environmental Clearance of Balapadu Quartz & Quartzite Mines with proposed excavation of 54500 CUM/year of Quartz & Quartzite having an area of 55.394 Ha. Located at Plot No. 53/P&69/P of Khata No.18, Vill- Balapadu, Tahasil-Rayagada, District- Rayagada of Sri Balakrishna Padhy.
3. **Category:** As per EIA notification 2006 and subsequent amendments, the project falls under item 1(a)-Mining of Minerals in the Schedule of EIA Notification, 2006 & Subsequent amendments thereof.
4. The Mining lease for Quartz & Quartzite Deposit over an extent of 55.394 ha of Village Balapadu Under Rayagada Tahasil of Rayagada District of Odisha, was originally granted to Tahasildar Rayagada for a period of 20 years Letter No 6451/SM/III(G)SM.15/06 dated 25.07.2007 The ML area period of concession from 2009-10 to 2028-29.
5. The Mining Plan of the Mining Project has been approved by Director of Geology, Bhubaneswar, Odisha vide letter no 298 dated 13.01.2016.
6. **Location and connectivity:** The lease area is bounded by Latitude: 19° 05' 56.0" N to 19° 06' 07.0" N Longitude: 83° 22' 08.0" E to 83° 22' 10.00"E. It is a part of area covered in the Survey of India Toposheet No. 65 M/8. The lease area is located at a distance of 12km from Rayagada town. The lease area is located at a distance of 59km from District head quarter. Rayagada town is the nearest place from the lease area. Rayagada is connected to the lease area by metal road at a distance of 8 km. The nearest railway station is at Rayagada Railway Station which is about 2.05 km from the mine lease area. The nearest airport is Visakhapatnam (Andhra Pradesh) Airport at 200 KMs from the mining site. Nearest Reserve Forest is Benakhamar reserve forest which is 65.1km away from the lease area.
7. There is no national park, wild life sanctuary, eco sensitive areas and industrial area situated within 10Kms radius of the lease area.

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### 8. **Baseline study:**

Attributes	Parameters	Results
Ambient Air Quality	PM <sub>10</sub>	61.69- 69.3µg/cu.m
	PM <sub>2.5</sub>	23.75- 39.93µg/cu.m
	SO <sub>2</sub>	5.3- 10.46µg/cu.m
	NO <sub>x</sub>	8.99- 16.27µg/cu.m
Surface Water Quality	PH	7.15-7.82
	TDS	244-293mg/l
	Sulphate	14.26-50mg/l
	Chloride	45.58-48.08 mg/l
Ground Water Quality	PH	6.91-7.84
	TDS	440-1024 mg/l
	Sulphate	42-92mg/l
	Chloride	40-320mg/l
	Fluoride	0.63-1.40 mg/l
Noise Level	Day	55.2dBA
	Night	44.9dBA
Soil	pH	7.23-7.67
	Potassium	140 to 360
	Phosphorous	10.34- 13.11mg/kg
	Nitrogen	112 – 318 Kg/Ha
	Electrical Conductivity	74 to 171 µs/Cm

9. **Mining method:** The mining of quartz will be done by open cast Semi- mechanized method for excavation & then loading into dumpers/ tractors/tippers for transport to the users' destination. The quarry will be mined for twenty years.

10. **Total reserves and production:** The average proposed rate of production is 54500 Cu. m (max) per annum and a total production of 190500 Cu.m in the plan period. As estimated mineable and geological reserve of the proposed project is 77,96,880 cum and 1,06,53,747 cum respectively.

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Year	Cross Section	Cross section area (m <sup>2</sup> )	Length of influence (m)	ROM (m <sup>3</sup> )	Waste vol. 15% of ROM (m <sup>3</sup> )	Saleable stone volume 85% of ROM (m <sup>3</sup> )
2019-20	Lapse period.					
2020-21	Lapse period.					
2021-22	Lapse period.					
2022-23	Lapse period.					
2023-24	DD'	127	200	25400	3810	21590
	EE'	145.5	200	29100	4365	24735
G.Total	-----	-----	-----	54500	8175	46325

11. **Water requirement:** The total water requirement will be approximately 5 KLD for different purposes like domestic, Dust suppression, plantation purposes. Water will be withdrawn from tube wells from nearby village.
12. **Greenbelt:** Plantation will be raised along both sides of the roads, available vacant spaces and in the lease area. It is proposed for planting 150 nos. of saplings per annum by the lessee in the lease boundary and village approach roads which is to be undertaken in consultation with the concerned authority.
13. **Manpower requirement:** There will be generation of employment for 100 persons. Out of which, 23 nos. are skilled, 28 nos. semi-skilled & 44 nos. unskilled and 5 supervisors.
14. **Project cost:** Total cost of the project will be ` 30 Lakh.
15. **Environment Consultant:** The Environment consultant M/s Green Circle Inc. Gujarat along with the proponent made a presentation on the proposal before the Committee
16. The SEAC in its meeting held on dated 12-06-2023 decided to take the decision on the proposal after receipt of the following from the proponent:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of SEAC
1.	Details of mining method along with slope, body of mining and presence of forests without causing any disturbance to the ecological balance of the area.	Semi-mechanized method of mining will be proposed with a regular benching pattern of 6m x 6m and slopes of sides at 45 <sup>o</sup> . There is no plant growth within the mining area ha. approved by director of mines.	-
2.	Stripping ratio along with photos of mineralization.	Stripping ratio is 1:0.17 and copy of photos of mineralization is attached as <b>Annexure-I</b> .	-
3.	Details of mining method to be used.	Semi-mechanized method of mining having bench pattern 6m x 6m on the ore zone, will be maintained as per approved mining plan.	-
4.	Approved DSR with inclusion of identified sairat source in it.	Quartz and Quartzite is not included in DSR.	-
5.	KML file shows the site is full of vegetation. Certificate from concerned DFO that proposed quarry is not part of DLC land.	Certificate from concerned DFO is attached as <b>Annexure-II</b> .	The proposed quarry is not included in DLC land as certified by DFO.
6.	Lease documents of Steel and Mines Department, Govt. of Odisha.	Lease document is attached as <b>Annexure-III</b> .	The M.L has been granted by Steel

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			/and Mines dept. vide letter no. 6451 dated 25-07-2007 in favour of Balakrishna Padhy for twenty years subjected to conditions laid down in the State Government Letter No. 7285/SM dt.04.05.06.
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17. Any deficiencies/omission have been noticed in the above documents- **Not submitted checklist, scrutiny fee, DLC certificate, cluster certificate and DSR copy.**

2. Whether SEAC recommended the proposal – Yes, the proposal was placed in SEAC meeting held on 19.10.2024 and considering the information / documents furnished by the proponent and presentation made by the consultant M/s Green Circle Inc. Gujarat, the SEAC prescribed the standard ToRs as per **Annexure – E** for conducting detailed EIA study with following specific conditions:

- i) Copy of Steel and Mines Department, Govt. of Odisha letter No. 7285/SM dt.04.05.2006 lease granted in favour of lessee till 2027.
- ii) The proponent shall submit copy of approved DSR incorporating the present lease area at the time of application for final appraisal for grant of Environmental Clearance.

**Decision of Authority: Approved subject to submission of information**

After detailed deliberation, the authority approved the ToR subject to submission of the following documents.

- a) Checklist duly signed by concerned Mining Officer.
- b) DLC certificate from concerned DFO/Tahasildar.
- c) Cluster certificate from concerned Mining Officer.

Signed by

Member Secretary, SEIAA

Member, SEIAA

Chairman, SEIAA